

Product Guide

2024/2025 Edition



altecnic.co.uk

altecnic
CALEFFI group



 **CALEFFI**
Hydronic Solutions

altecnic

CALEFFI group



We are proud to be part of the CALEFFI group. A world leader in the manufacturing of high-quality components for heating, plumbing, air conditioning, heat metering and renewables systems, for domestic and industrial plants. The Group has over **1,640 employees** worldwide and distributes to over **90 countries** with a recorded turnover above **495 million euros** in 2022. The CUBOROSSO (REDCUBE) Studies and Research Centre and the MAV Automatic Vertical Warehouse guarantees even faster shipment and more punctual delivery.

Manufacturing is in our DNA...

Proud of our manufacturing heritage, we value our reputation and the trust of our customers. We understand that the quality of our products underpins both our own and our customers' success. For you, our customer, this means that when you sell, specify or install our products, your reputation is in safe hands.



The logo for altecnic, featuring the word 'altecnic' in a lowercase, sans-serif font. The letter 'a' is stylized with a green dot in the center of its counter. The logo is positioned within a large white shape that resembles a stylized drop or a leaf, set against a dark green background with a faint, light green grid pattern.

altecnic

CALEFFI group

Hydronic
solutions for the
plumbing and
heating industry

Contents

6 About us

8 Sectors

10 Sustainability, quality & innovation

12 Supporting our customers & CPDs

14 Product quality & warranty

16 Plumbing and Heating Products

16 Mixing Valves

- 18 Merchant Mixing Valves & Tempering Valve
- 19 MIXCAL CAREFLO PLUS® & MIXCAL® III
- 20 MX Valves & TMV Accessories
- 21 L-pattern & MIXCAL® Valves
- 22 OEM TMV & Blending Valve
- 23 Solar Mixing Valve
- 24 Thermostatic Balancing Valves
- 25 Thermostatic Balancing Valves, Insulation & Accessories
- 26 LEGIOMIX® Hybrid Electronic Mixing Valve

28 Radiator Valves

- 30 ECOCAL®
- 32 Commercial Pre-settable
- 33 DYNAMICAL®
- 34 Eclipse Manual & Commercial Non-reversible
- 35 Screwed Iron
- 36 Decorative Polished & Classic Chrome Finish
- 37 Dual Fuel Polished & Dual Fuel T-piece
- 38 Radiator Extension Pieces & Push Fit Elbows
- 39 CALEFFI CODE®

40 Pressure Reducing Valves

- 42 ALTECNIC APARTMENT CONTROL ASSEMBLY PLUS™
- 44 ALTECNIC APARTMENT CONTROL ASSEMBLY™
- 46 Series 533
- 49 Series 535
- 51 Series 536
- 52 Series 300
- 53 Series 576 & 5360

54 Heat Pumps

- 56 Heat Pump Accessories
- 58 Buffer Tanks
- 60 iStop® Anti-freeze Valves
- 61 Series 518 & 519 Bypass Valves
- 62 CALEFFI XF
- 63 CALEFFI XF With Bypass
- 64 DIRTMAG® Plus

Heat Pumps (Continued)

- 65 Ball Valves
- 66 Commissioning Accessories
- 67 Sealed Systems, Expansion Vessels & Brackets

68 Dirt and Air Separation

- 70 CALEFFI XS®
- 72 DIRTMAG MINI®
- 73 DIRTMAG MINI® Compliance Packs
- 74 DIRTMAG IQ PRIME®
- 75 DIRTMAG IQ PRIME® Compliance Packs
- 76 DIRTMAG IQ®
- 77 DIRTMAG®
- 78 DIRTMAGPRO®
- 79 DISCALDIRTMAG
- 80 CALEFFI XF
- 81 CALEFFI XF With Bypass
- 82 DIRTMAG XL® & DISCALDIRTMAG
- 83 DISCALDIRT® & DISCALDIRT® (with insulation)
- 84 DIRTAL
- 85 Hydraulic Separators
- 87 DISCAL® Automatic Air Separators
- 88 Automatic Air Vents
- 89 De-aerators
- 91 Strainers, Filters & DIRTMAG® accessories

92 Expansion Vessels

- 94 Heating Vessels
- 98 Potable Vessels
- 101 Flow Through Vessels
- 102 Mini & Stainless Steel Vessels
- 103 Shock Arrestors
- 104 Water Heater Packs & Water Heater Isolation Valves
- 105 Dosing Pots

106 Sealed Systems

- 108 ROBOKIT® Sealed System Kits
- 109 Kits, Filling Loops & Multi Function Brackets
- 110 Series 518 & 519 Bypass Valves
- 111 Matrix Digital Pressurisation Unit

Application Key



DOMESTIC



COMMERCIAL

Quantity Key



OUTER BOX



PALLET

112 Ball Valves

- 114 Water - DZR - Blue Handle
- 116 Water - Brass - Blue Handle
- 118 Water - DZR - Red Handle
- 120 Water - Brass - Red Handle
- 122 Combi Ball Valves & Ballstop
- 123 Union Ball Valves
- 124 Stainless Steel & Filter Ball Valves
- 125 3 Way Ball Valves
- 126 Press Fit Ball Valves
- 129 Service Valves & Ductile Iron Ball Valves
- 130 Gas Ball Valves
- 133 Pump Ball Valves

134 Safety Relief Valves

- 136 Safety Relief Valves

140 Mechanical Thermostats

- 142 Mechanical Thermostats

146 Gauges

- 148 Gauges

150 Backflow Prevention

- 153 RPZ Valves
- 154 Double Check Valves
- 157 Single Check Valves
- 158 Non Return Valves, Filters and Breakers
- 159 Tundishes

160 Flow Regulation

- 162 CALFLOW PLUS®
- 163 Flow Limiters
- 164 Balancing Valves
- 165 Commercial Metering Stations

166 Metering

- 168 Water Meters
- 170 Data Loggers
- 171 Energy Meters

174 Underfloor Heating

- 176 Control Units
- 177 Actuators, Leak Sealer & Biocide

178 General Plumbing & Accessories

- 180 Garden Taps & Flexible Hoses
- 181 Drain Valves, Pipe Covers & Condensate Pro insulation
- 182 Manifolds & Accessories
- 183 Jointing Paste, Fittings & Oil Filters

184 Water Treatment

- 186 Water Treatment
- 187 Fill & Flush Valves
- 188 Scale Reducers
- 189 Chemicals

190 Commercial Washrooms

198 Commercial Products

200 Heat Interface Units

202 Renewables

Committed to
delivering accredited
and compliant
products to Trade,
OEM and Specification
Customers



About us

From our 7500 m³ HQ in Stafford, Altecnic has supported the UK & Republic of Ireland plumbing industry for over 35 years. We understand that today's plumbing and heating components have to do much more than simply transport gas and water, and Altecnic's range meets every requirement for every application, from UK & EU legislation to global environmental standards.

Trade

Altecnic have supported Trade Merchants and their customers for over 35 years and we're proud to be their partner of choice.

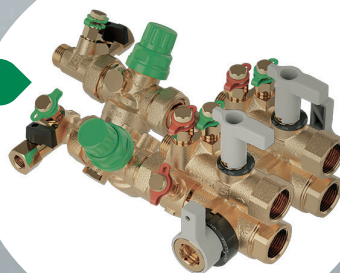
Visit altecnic.co.uk/trade to find out more.



OEM

Altecnic works hard to provide valuable partnerships with our OEM customers. Our dedicated OEM experts support our customers production requirements, through the design of bespoke product and package solutions, which are complemented by our reliable and quality service.

Visit altecnic.co.uk/oem to find out more.



Specification

Whether for a plant room, a hospital, or a heat network in a 16 storey apartment block, we provide the optimum hydronic solutions for any construction project.

Visit altecnic.co.uk/specification to find out more.



Leading the way in Built Environments



Commercial

From offices to retail and hospitality we provide solutions that perform



Education

Smart solutions to keep even the most vulnerable users safe



Care Home

Superior product solutions where safety, comfort and hygiene are key



New Build

Solutions to keep new build projects cost-effective and energy efficient



Hospitals

Safe and efficient solutions for protecting public health



Multi-Occupancy

Heat network solutions for tall buildings, hotels and student accommodation



Sports and Leisure

Solutions for facilities that need to perform safely & hygienically

We have a vast range of solutions that work to control the temperature, pressure, and safety of water in heating and cooling systems across the built environment.

Hydronic Solutions For Built Environments

Our rich manufacturing heritage combined with 35 years of working in the UK construction industry means that whatever the sector, we deliver the optimum hydronic system solutions for modern buildings.

Our team sit on the technical advisory committees of all major heating and plumbing related industry bodies that work to provide regulations and legislation that are safe and efficient. This means our team are focused on always delivering products that meet, if not exceed, current regulations.

In fact, we continually invest in our product development ensuring that our products are tested and accredited to the best industry standards. This gives our customers the peace of mind that whenever they specify or fit an Altecnic product, their project is in safe hands.



Industrial

Plant room solutions that support all types of industrial applications



Offsite

When efficiency matters, we provide a range of flexible solutions for offsite construction

Browse and download our sector brochures here



Sustainability, quality & innovation go hand in hand

Sustainability, quality & innovation are embedded into the culture at Altecnic. From designing products that last, to the production methods we use, our commitment to recyclable packaging, and in the way we power our vehicles.

Altecnic is an environmentally responsible business, Investors in People accredited and proud to be ISO 9001:2015, ISO 14001:2015, ISO 27001:2022 and 45001:2018 certified.

UP TO
30%
ENERGY SAVING

Look out for our energy efficient products marked with up to 30% energy saving



Learn more about our sustainability initiatives



Please note

WRAS Approved Products

Details of the range of products approved can be found in the Water Fittings and Materials online directory:

www.wrasapprovals.co.uk*



KIWA product approval scheme

Details of KIWA approved products can be found online at:

www.kiwa.co.uk/waterproducts*



NSF Certified Products

Details of NSF certified products to TMV2, TMV3 and CIAS (DTC) can be found online at:

www.nsf.org*



UKCA & CE products

Details of UKCA & CE range of products identified by logo*



* For full details of certified products please refer to our technical department.



We're reducing
our environmental
impact through
innovative product
design & packaging
materials

Supporting our customers

Customer Service

Customers across the UK & ROI can rely on our experienced customer service team to be available when and where you need them.

We understand that when you need a product, you need it fast. We're proud to offer Guaranteed Next Day Delivery* for a small charge. Altecnic has a £100 minimum order charge with the majority of orders delivered to the customer the next day.

* Cut off times apply.

Technical Support

The Altecnic technical department are the go-to team for any technical product installation, commissioning or maintenance query you or your customers may have.

Our technical team works hard to provide you with all the answers you need about Altecnic products. From giving you advice on product specifications, problem-solving, to delivering training courses, we are always on hand to help.

Sales & Marketing Support

We have regional sales managers out on the road to support each customer across the UK.

We can help to provide support not only on the phone, but also in person, such as in-branch events like coffee mornings and sales promotions to help your customers find the right Altecnic products.

Our marketing team can provide high-res product images, product information, brochures, leaflets and POS displays.

Product Training & CPDs

Our customers can benefit from the wealth of expertise and experience the Altecnic team has as part of our training academy. Our CIBSE accredited CPDs are delivered by experts including CIBSE accredited heat network consultants. Our product training sessions are delivered by those with practical experience of installing, commissioning, maintaining and testing all manner of hydronic products.



We are thrilled to announce the launch of Altecnic Academy, our new digital learning platform. Altecnic Academy provides on demand training, giving you access to FREE CIBSE accredited CPD's, delivered by industry experts at a time that suits you. Sign up using the QR code.

Plus, we have a wide range of technical resources, including how to videos, on our website and YouTube channel.

Customer Care Line: +44(0) 1785 218207
customerservice@altecnic.co.uk

Trade Sales: +44(0) 1785 218222
tradesales@altecnic.co.uk

OEM Sales: +44(0) 1785 218208
oemsales@altecnic.co.uk

Specifications Sales: +44(0) 1785 218210
specificationsales@altecnic.co.uk

Technical Helpline: +44(0) 1785 218206

Technical Email: technical@altecnic.co.uk

Website: altecnic.co.uk/technical-hub

Marketing Email: marketing@altecnic.co.uk

Find your
local ASM
here



Training Helpline: +44(0) 1785 218206

Training Email: training@altecnic.co.uk

Website: altecnic.co.uk/technical-hub/training-and-cpds

Visit our
website
for more
information
on training



AltecnicLtd



@Altecnic



Altecnic



Altecnic

General: +44(0) 1785 218200

Altecnic Ltd, Mustang Drive, Stafford, Staffordshire ST16 1GW

Improve your knowledge and sign up today

altecnic
ACADEMY

Altecnic Academy is our new digital learning platform, where you can access FREE CIBSE Accredited CPDs, delivered by industry experts at a time that suits you!

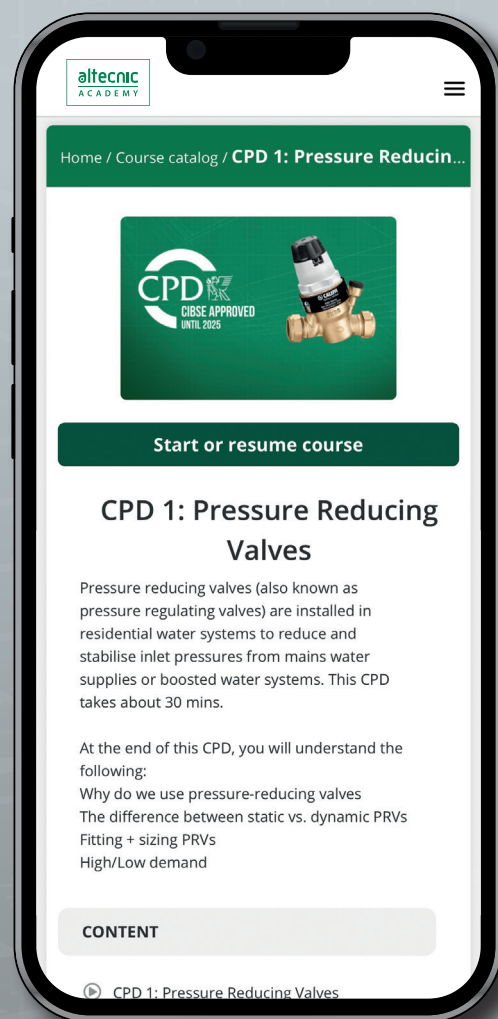


Latest Topics Include

- Pressure Reducing Valves
- Legionella Considerations When Reactivating Buildings
- System Design For Efficiency for Using Electronic Intelligent HIUs
- Drivers for Change and Understanding the BESA HIU Test Regime
- Expansion Vessels
- Sealed Heating Systems
- Thermostatic Mixing Valves
- System Balancing

NEW

Sign up
to Altecnic
Academy



Scan the QR code to
find out more about
our 5-year Warranty



Altecnic product quality & warranty

5-year Warranty

Our customers can benefit from the added peace of mind of 5-year warranty on selected products. The Caleffi 5-year warranty applies to our most trusted products to highlight their quality and reliability. Our Reflex 5-year warranty applies to our high quality, anti-corrosive, nitrogen filled expansion vessels.



OUR 5 YEAR WARRANTY INCLUDES SELECTED PRODUCTS IN THE FOLLOWING CATEGORIES:

- Thermostatic Mixing Valves
- Radiator Valves
- Silfra Commercial Washroom Products
- Pressure Reducing Valves
- Nitrogen Filled Vessels

Water Regulation 4 Compliance

It is a legal requirement in the UK that all systems connected to drinking water must be installed using products that comply with the water regulations. The Water Supply (Water Fittings) Regulations 1999 apply to England and Wales with comparable regulation for Scotland within Scottish byelaws (The Water Supply (Water Fittings) (Scotland) byelaws 2014, and in Northern Ireland the Water Supply referred to as Regulation 4 or "Reg 4".

According to The Water Supply (Water Fittings) Regulations 1999 "Every water fitting should be of an appropriate quality or standard and be suitable for the situation in which it is used". As part of this regulation the installer must demonstrate compliance to appropriate British or European standards. In order to be certified, products are tested to ensure they perform to the specification and can be approved by the following regulators:

WRAS Approved Products

Details of the range of products approved can be found in the Water Fittings and Materials online directory:

www.wrasapprovals.co.uk*



KIWA product approval scheme

Details of KIWA approved products can be found online at:

www.kiwa.co.uk/waterproducts*



* For full details of certified products please refer to our technical department.

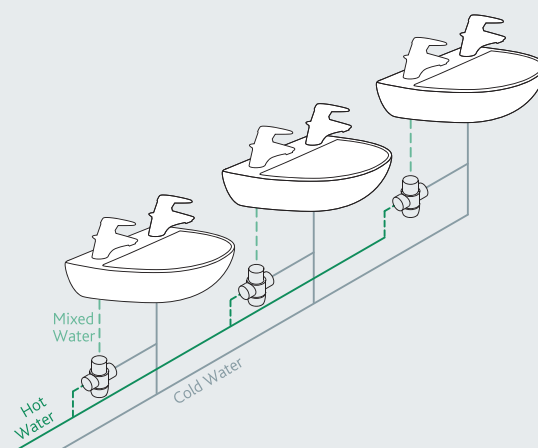
Mixing Valves

Altecnic offers a complete range of thermostatic mixing valves (TMV) for domestic, healthcare, educational, hotel and leisure facilities. Our TMV valves are variously accredited to WRAS, Kiwa Reg 4, Kiwa Type 2, Kiwa Type 3, TMV2, TMV3 and NSF BS EN 15092 to service all applications. Any facility where there are vulnerable people including children, the elderly and infirm can be assured of the safety of their hot water supply thanks to Altecnic's devotion to meeting the most stringent of safety standards.

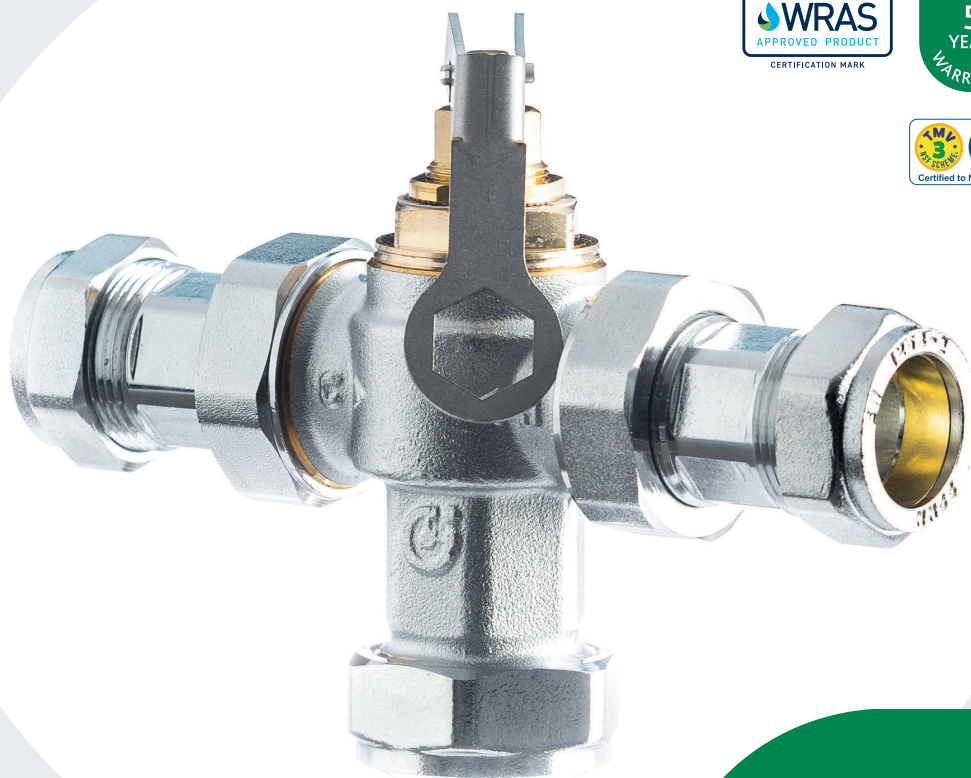
RANGE OVERVIEW

The range covers use with hot and cold water and includes:

- Constant stable temperature
- Failsafe function (some models)
- Wide range for various connection sizes
- WRAS, TMV2, TMV3, NSF & Kiwa approved (Where applicable)
- Domestic and commercial applications



	SERIES	WRAS APPROVED PRODUCT CERTIFICATION MARK	kiwa approved KUKreg4	kiwa certified Type 2 TMV	kiwa certified Type 3 TMV	TMV2 NSF Certified to NSF TMV2	TMV3 NSF Certified to NSF TMV3	NSF Certified to BS EN 15092	5 YEAR WARRANTY
Merchant Mixing Valves	5213	✓	✓	✓	✓	✓	✓		✓
45-65°C Tempering Valve	5218	✓						✓	✓
MIXCAL CAREFLO PLUS®	5213+	✓					✓		✓
MIXCAL® III Failsafe TMV	5211	✓	✓						✓
MIXCAL® III Group TMV	5219	✓							✓
L-Pattern TMV	5200	✓	✓						✓
MIXCAL® MIX PRO® TMV	5231	✓							✓
OEM TMV	5219	✓							



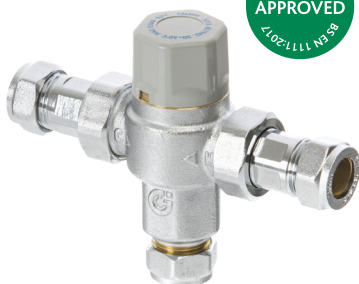
MIXCAL CAREFLO PLUS®
101-3004



Mixing
Valves

MIXING VALVES - MERCHANT MIXING VALVE & TEMPERING VALVE

CA-100822



SERIES 5213 - MERCHANT MIXING VALVES



Ref no	Size	Connections	Temperature		
CA-100822	15mm	Compression	Setting range 30 - 50°C	20	840
CA-100824	22mm	Compression	Setting range 30 - 50°C	20	840
CA-100827	15mm	Compression + MX valve	Setting range 30 - 50°C	20	840
CA-100828	22mm	Compression + MX valve	Setting range 30 - 50°C	20	840

The failsafe merchant thermostatic mixing valve has been specifically designed and manufactured to meet the requirements of the latest National Health Service model engineering specification - D08 and BS 7942 for use in vulnerable person applications. Approved to EN1287:2017 and EN1111:2017 and therefore suitable for domestic applications in compliance with Part G of the Building Regulations.



SPECIFICATION

- Max pressure: 10 bar
- Max incoming temperature: 85°C
- Pressure ratio (H/C or C/H): 5:1



CA-100827



521814



SERIES 5218 - 45-65°C TEMPERING VALVE



Ref no	Size	Connections	Temperature	
521814 *	1/2"	M BSP	Setting range 45 - 65°C	10
521815 *	3/4"	M BSP	Setting range 45 - 65°C	10
521816 *	1"	M BSP	Setting range 45 - 65°C	10
521817	15mm	Compression	Setting range 45 - 65°C	15
521818	22mm	Compression	Setting range 45 - 65°C	15
521819	28mm	Compression	Setting range 45 - 65°C	15

A tempering valve is used in systems where the water in the storage cylinder can reach temperatures significantly above 60°C. In the event of failure of the hot or cold water supplies the tempering valve will automatically shut down in line with the BS EN 15092 test standard.

SPECIFICATION

- Max pressure: 10 bar
- Max incoming temperature: 90°C
- Pressure ratio (H/C or C/H): 2:1



521817



MIXING VALVES - MIXCAL CAREFLO PLUS® & MIXCAL® III

SERIES 5213+ - MIXCAL CAREFLO PLUS® THERMOSTATIC MIXING VALVE



Ref no	Size	Connections	Temperature		
101-3003 *	15mm	Compression	Setting range 30 - 50°C	1	648
101-3004 *	22mm	Compression	Setting range 30 - 50°C	1	648
101-3002	15/22mm	Compression + MX valve	Setting range 30 - 50°C	1	648

The MIXCAL CAREFLO PLUS® failsafe thermostatic mixing valves have been designed and manufactured to meet the requirements of BS 7942:2011 and the National Health Service model engineering specification D08 for use in healthcare premises, hospitals, care homes and schools. This valve has a unique feature which allows for thermal disinfection to be performed through to the outlets, helping to protect against Legionella and other microbial organisms.



SPECIFICATION

- Max pressure: 10 bar
- Max incoming temperature: 85°C
- Pressure ratio (H/C or C/H): 5:1

Find out more about the MIXCAL CAREFLO PLUS® here



101-3004



101-3002

SERIES 5211 - MIXCAL® III THERMOSTATIC FAILSAFE MIXING VALVE



Ref no	Size	Connections	Temperature		
521115 *	15mm	Compression	Setting range 30 - 65°C	10	360
521122 *	22mm	Compression	Setting range 30 - 65°C	10	360
CA-MX5115	15mm	Compression	Setting range 30 - 65°C	10	-
CA-MX5122	22mm	Compression	Setting range 30 - 65°C	10	-

Failsafe thermostatic mixing valve, complies with the essential requirements of BS EN 1287.



SPECIFICATION

- Max pressure: 10 bar
- Max incoming temperature: 85°C
- Pressure ratio: (H/C or C/H) : 2:1



521122

SERIES 5219 - MIXCAL® III GROUP THERMOSTATIC MIXING VALVE



Ref no	Size	Connections	Check Valves	Temperature	
ALT-521928	28mm	Compression	Yes	Setting range 35 - 65°C	6

SPECIFICATION

- Max pressure: 14 bar
- Max incoming temperature: 90°C
- Pressure ratio: (H/C or C/H) : 2:1



ALT-521928

THERMOSTATIC MIXING VALVE ACCESSORIES

AI-495015



MX VALVES (PAIR) - FOR USE WITH SERIES 5211



Ref no	Size	Connections	
AI-495015	15mm x 1"	Compression x F BSP	10
AI-495022	22mm x 1"	Compression x F BSP	10

The MX range of valves c/w isolation valve, check valve, test port and strainers. The MX valves have been designed specifically for use with our range of thermostatic mixing valves.



AI-496A05BAG



MX VALVES (PAIR) - FOR USE WITH SERIES 5213

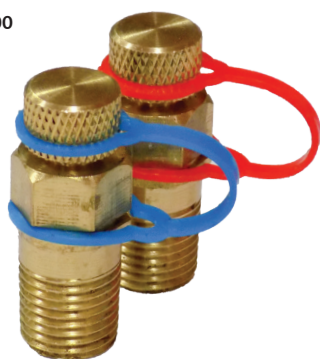


Ref no	Size	Connections	
AI-496A05DBAG	15mm x 3/4"	Compression x F BSP	18
AI-0507SDBAG	22mm x 1"	Compression x F BSP	10

The MX range of valves c/w isolation valve, check valve and test port strainers. The MX valves have been designed specifically for use with our range of thermostatic mixing valves.



100000



ACCESSORIES FOR THERMOSTATIC MIXING VALVES



Ref no	Description	
CA-100065	15mm tail-piece set for MIXCAL® III	10
CA-100066	22mm tail-piece set for MIXCAL® III	10
100000	1/4" temperature measuring point	10
CA-100224	Service kit for MIXCAL® III	10
F0001642	Service kit for MIXCAL CAREFLO PLUS®	-
CA-5215INT	15mm Merchant Mixing Valve service kit	10
CA-5222INT	22mm Merchant Mixing Valve service kit	10
CBN521814	Thermostatic Mixing Valve insulation jacket	-
102-1003	Kit pair of valves for MX	-

CBN521814



THERMOSTATIC MIXING VALVES - L-PATTERN & MIXCAL® VALVES

ANTI-SCALD DEVICE



Ref no	Size	Connections	
600140	½"	M x F BSP	10

The function of the device is to cut off the flow of water if its temperature reaches the set value. Installed directly at the point of use outlet, it prevents the hot water from scalding the user during the thermal disinfection period.



600140

SPECIFICATION

- For use on outlets of showers/taps
- Isolates water when temperature exceeds 48°C

SERIES 5200 - L-PATTERN THERMOSTATIC MIXING VALVES



Ref no	Size	Connections	Temperature	
101-2001	15mm	Compression	Setting range 35 - 65°C	10
101-2002	22mm	Compression	Setting range 35 - 65°C	10
520040	½"	M BSP	Setting range 35 - 65°C	10
520050	¾"	M BSP	Setting range 35 - 65°C	10
520060	1"	M BSP	Setting range 35 - 65°C	5

Adjustable thermostatic mixing valve with knob, complete with check valves and strainers at the inlets.



SPECIFICATION

- Max pressure: 10 bar
- Max incoming temperature: 90°C
- Pressure ratio (H/C or C/H): 2:1
- Certified to EN 1111 and EN 1287.



101-2001

MIXING VALVES

SERIES 5231 - MIXCAL MIX-PRO® THERMOSTATIC MIXING VALVES



Ref no	Size	Connections	Check Valves	Temperature	
523140	½"	M BSP	No	Setting range 35 - 65°C	5
523150	¾"	M BSP	No	Setting range 35 - 65°C	5
523160	1"	M BSP	No	Setting range 35 - 65°C	5
523170	1 ¼"	M BSP	No	Setting range 35 - 65°C	5
523180	1 ½"	M BSP	No	Setting range 35 - 65°C	5
523190	2"	M BSP	No	Setting range 35 - 65°C	5

SPECIFICATION

- Max pressure: 14 bar
- Max incoming temperature: 90°C
- Pressure ratio: (H/C or C/H) : 2:1



523170

THERMOSTATIC MIXING VALVES - OEM TMV & BLENDING VALVE

521931 CST



SERIES 5213 & 5219 - OEM THERMOSTATIC MIXING VALVE



Ref no	Size	Connections	Temperature	
521331 CST	G½"/15mm	Compression	Preset 61°C	20
521332 CST	G½"/15mm	Compression	Preset 51°C	20
521931 CST	G½"/15mm	Compression	Setting range 35 - 65°C	20

SPECIFICATION

- Max pressure: 10 bar
- Max incoming temperature: 85°C
- Pressure ratio: (H/C or C/H) : 2:1



520430



THERMOSTATIC BLENDING VALVE - NON-FAILSAFE VALVE FOR GENERAL USE



Ref no	Size	Connections	Temperature	
520430	½"	F BSP	Setting range 30 - 48°C	50
520440	½"	F BSP	Setting range 40 - 60°C	50
520530	¾"	F BSP	Setting range 30 - 48°C	50
520540	¾"	F BSP	Setting range 40 - 60°C	50
520630	1"	F BSP	Setting range 30 - 48°C	10
520640	1"	F BSP	Setting range 40 - 60°C	10

SPECIFICATION

- Adjustable outlet temperature
- Non-failsafe
- Female connections
- Ideal for underfloor heating

MIXING VALVES - SOLAR

THERMOSTATIC MIXING VALVE FOR SOLAR THERMAL SYSTEMS



252714

Ref no	Size	Connections	Temperature		
252714	1/2"	M BSP	Setting range 35 - 55°C	10	450

SPECIFICATION

- Max pressure: 10 bar
- Max incoming temperature: 100°C
- Includes check valve and strainers



THERMOSTATIC BALANCING VALVES

116441



SERIES 116 - THERMOSTATIC REGULATOR FOR HOT WATER RECIRCULATION



Ref no	Size	Connections	Description	Box	Carton
116415	15mm	RP 1/2" w/ 15mm compression fitting	Thermostatic regulator	5	450
116420	22mm	RP 3/4" w/ 22mm compression fitting	Thermostatic regulator	10	450
116440	1/2"	F BSP	Thermostatic regulator	10	450
116441	1/2"	F BSP	Thermostatic regulator with gauge	10	450
116450	3/4"	F BSP	Thermostatic regulator	5	450
116451	3/4"	F BSP	Thermostatic regulator with gauge	5	450

The Altecnic thermostatic regulator for domestic hot water recirculation loops automatically maintains the specified water temperature.



SPECIFICATION

- Max working pressure: 16 bar
- Max working temperature: 60°C
- Temperature gauge available (code: 116010)
- Temperature adjustment range: 40 - 65°C



116240



SERIES 116 - THERMOSTATIC REGULATOR FOR HOT WATER RECIRCULATION C/W THERMAL DISINFECTION FUNCTION



Ref no	Size	Description	Box	Carton
116140	1/2"	Regulator with probe pocket for temperature gauge	10	450
116150	3/4"	Regulator with probe pocket for temperature gauge	10	450
116240	1/2"	Regulator with temperature gauge	10	450
116250	3/4"	Regulator with temperature gauge	10	450
116160 *	1"	For actuator-controlled thermal disinfection function	5	-
116170 *	1 1/4"	For actuator-controlled thermal disinfection function	5	-
116260	1"	For actuator-controlled thermal disinfection function with gauge	5	-
116270	1 1/4"	For actuator-controlled thermal disinfection function with gauge	5	-

Thermostatic regulator for domestic hot water recirculation circuits fitted for actuator-controlled thermal disinfection function.



SPECIFICATION

- Kv maximum: 1.8 m3/h, Kv minimum: 0.2 m3/h
- Max working pressure: 10 bar
- Max differential pressure: 1 bar
- Temperature adjustment range: 35 - 60°C (1/2" - 3/4")
- Temperature adjustment range: 35 - 65°C (1" - 1 1/4")



THERMOSTATIC BALANCING VALVES

SERIES 116 - THERMOSTATIC REGULATOR FOR HOT WATER RECIRCULATION WITH CHECK VALVE C/W THERMAL DISINFECTION FUNCTION



Ref no	Size	Connections	Description	Box	Unit
116144	1/2"	M	Regulator with probe pocket for temperature gauge	10	450
116154	3/4"	M	Regulator with probe pocket for temperature gauge	10	450
116244	1/2"	M	For actuator-controlled thermal disinfection function with gauge	10	450
116254	3/4"	M	For actuator-controlled thermal disinfection function with gauge	10	450



116144



NEW

INSULATION FOR THERMOSTATIC REGULATOR



Ref no	Description	Box
CBN116140	Insulation for 1/2" and 3/4" multifunction thermostatic regulator 116 series	10
CBN116160	Insulation for 1" and 1 1/4" multifunction thermostatic regulator 116 series	10
CBN116440	Insulation for 1164 series	10



CBN116140

SPECIFICATION

- Closed cell expanded PE-X shell insulation
- Min thickness: 13 mm
- Max thickness: 23 mm
- Inner density: 30 kg/m³
- External density: 80 kg/m³
- Thermal conductivity at 0°C: 0,0345 W/(m·K)
- Thermal conductivity at 40°C: 0,0398 W/(m·K)
- Temperature range: 0 - 100°C
- Fire resistance: (UNI 9177) Class 1

ACCESSORIES FOR THERMOSTATIC REGULATOR



Ref no	Description	Box
116000	Cartridge for thermal disinfection function controlled by an actuator	10
116010	Ø 40mm temperature gauge 0-80°C range	20
656102	Thermo-electric actuator, with position indicator - 230 V	10
656104	Thermo-electric actuator, with position indicator - 24 V	10



116000

SPECIFICATION - 116000

- Cartridge for thermal disinfection function controlled by an actuator
- For use with 116 series combined with 656. series actuators

SPECIFICATION - 656 SERIES

- Supply: 230 V (AC) or 24 V (AC)/(DC)
- Auxiliary microswitch contact rating: 0,8 A (230 V)
- Power consumption: 3 W
- Starting current: ≤ 1 A
- Ambient temperature range: 0 - 50 °C
- Protection class: IP 44 (vertical stem)
- Cable length: 80 cm



Series 656

HYBRID ELECTRONIC MIXING VALVE – LEGIOMIX®

600045



CE marked

6000 SERIES - LEGIOMIX® 2.0 HYBRID ELECTRONIC MIXING VALVE



Ref no	Size	Connections
600045	1/2"	M BSP
600055	3/4"	M BSP
600065	1"	M BSP
600075	1 1/4"	M BSP
600085	1 1/2"	M BSP
600095	2"	M BSP

The LEGIOMIX® 2.0 hybrid mixing valve combines the typical function of the mechanical thermostatic mixing valve and the management efficiency of an electronic mixing valve in a single device.

The thermostatic mixing valve responds promptly to any variation in temperature, pressure and inlet flow rate to quickly restore the mixed water temperature to the outlet.

The electronic regulator, directly on the actuator, allows the mixed water temperature control according to different functional programs, both for normal control and for the thermal disinfection for the prevention of Legionella.

SPECIFICATION

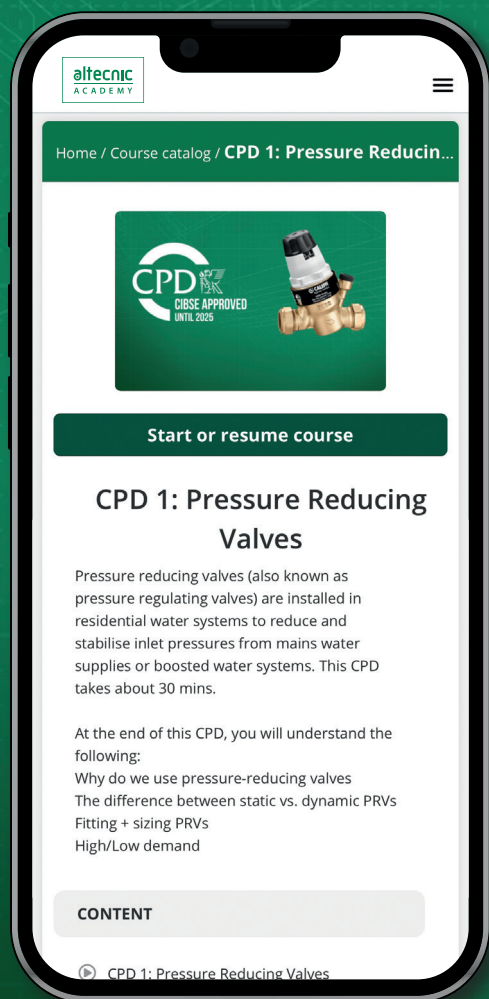
- Max working pressure (static): 10 bar
- Max incoming temperature: 90°C
- Adjustment temperature range: 35 - 65°C
- Disinfection temperature range: 50 - 85°C

Find out
more about the
LEGIOMIX® here



Improve your knowledge and sign up today

altecnic
ACADEMY



Altecnic Academy is our new digital learning platform, where you can access FREE CIBSE Accredited CPDs, delivered by industry experts at a time that suits you!

Latest topics include:

- System Design For Efficiency For Using Electronic Intelligent HIUs
- Legionella Considerations When Reactivating Buildings
- System Balancing
- Pressure Reducing Valves



Scan QR code for
more information

altecnic.co.uk

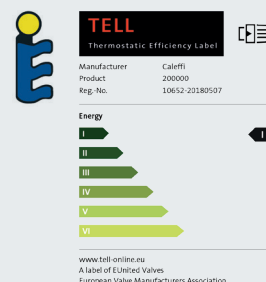
altecnic
CALEFFI group

Radiator Valves

Thermostatic Radiator Valves (TRVs) are typically used for regulating the flow to radiators of central heating systems. The Altecnic range of radiator valves is designed to cover domestic and commercial applications. Covering 8mm to 15mm, ½" to ¾" female BSP. For example our renowned ECOCAL® TRV meets the latest European standards including TELL 'I' rating. ECOCAL® TRVs are particularly ideal for use in conventional twin pipe heating systems where the level of temperature control needs to be more accurate than is available through a manually operated valve. These models have been carefully manufactured for either retrofit or new installations and have a reversible body for either horizontal or vertical fitting. Suitable for either on-flow or return pipework, these TRVs provide the installer with flexibility.

RANGE OVERVIEW

- Size ranges from 8mm to 15mm, ½" to ¾" female BSP
- Angled and straight body
- Max working pressures of up to 10 bar
- Domestic and commercial applications



Model Series	Body Pattern	5 YEAR WARRANTY	Domestic use	Commercial use	TELL Rating 'I'
ECOCAL® Thermostatic Radiator Valves	Angled / Straight	✓	✓		✓
Commercial Pre-settable Thermostatic Radiator Valves	Angled / Straight			✓	✓
DYNAMICAL® Dynamic Pressure Independent Thermostatic Radiator Valve	Angled / Straight		✓	✓	✓
Eclipse Manual Radiator Valves	Angled / Straight		✓		
Commercial Thermostatic Radiator Valves	Angled / Straight		✓	✓	✓
Decorative Manual Radiator Valves	Angled / Straight		✓		



ECOCAL® Thermostatic Radiator Valve
200425LTC



TELL
Thermostatic Efficiency Label

Manufacturer: Caleffi
Product: 200425
Reg.-No.: 10652-20180507

Energy



www.tell-online.eu
A label of EU-United Valves
European Valve Manufacturers Association

Radiator
Valves



200425 LTC



CA-201011



ECOCAL® THERMOSTATIC RADIATOR VALVES

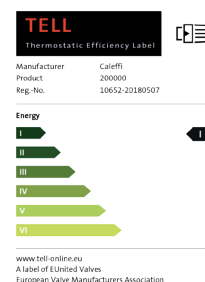
Ref no	Size	Connections	Body	Finish		
CA-200428MS *	8mm x 15mm	Compression x M BSP	Angled	White head	50	1200
200420 LTC	10mm x 1/2"	Compression x M BSP	Angled	White head	50	1200
200425 LTC	15mm x 1/2"	Compression x M BSP	Angled	White head	50	1200
CA-200455	15mm x 1/2"	Compression x M BSP	Angled	Chrome head	50	1200
CA-201010	10mm x 1/2"	Compression x M BSP	Straight	White head	50	1200
200465 LTC	15mm x 1/2"	Compression x M BSP	Straight	White head	50	1200
CA-201013	10mm x 1/2"	Compression x M BSP	Straight	Chrome head	50	1200
CA-201011	15mm x 1/2"	Compression x M BSP	Straight	Chrome head	50	1200

SPECIFICATION

- Temperature setting range: 7°C - 28°C
- Max working pressure: 10 bar
- Frost Setting: 7°C
- Liquid filled
- Fully reversible (angled only)

5
YEAR
WARRANTY

Find out
more about
ECOCAL®
here



* Supplied with two 15mm x 8mm reducers.

200445 LTC - TWIN PACK



200485 LTC



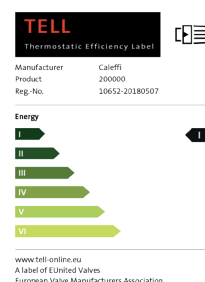
ECOCAL® TWIN PACKS

Ref no	Size	Connections	Body	Finish		
200440 LTC	10mm x 1/2"	Compression x M BSP	Angled	White head	20	640
200445 LTC	15mm x 1/2"	Compression x M BSP	Angled	White head	20	640
CA-200456	10mm x 1/2"	Compression x M BSP	Angled	Chrome head	20	640
200455 LTC	15mm x 1/2"	Compression x M BSP	Angled	Chrome head	20	640
CA-200478	10mm x 1/2"	Compression x M BSP	Straight	White head	20	640
200475 LTC	15mm x 1/2"	Compression x M BSP	Straight	White head	20	640
CA-200477	10mm x 1/2"	Compression x M BSP	Straight	Chrome head	20	640
200485 LTC	15mm x 1/2"	Compression x M BSP	Straight	Chrome head	20	640

SPECIFICATION

- Temperature setting range: 7°C - 28°C
- Max working pressure: 10 bar
- Frost Setting: 7°C
- Liquid filled
- Fully reversible (angled only)

5
YEAR
WARRANTY



STANDARD TRVS - ECOCAL®

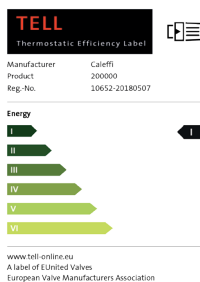
ECOCAL® THERMOSTATIC HEAD



Ref no	Description	Box	Unit
200014 CST	ECOCAL® chrome head and collar	50	620
CA-200000	ECOCAL® TRV head and collar	40	620
CA-100793	Tamperproof guard and allen key for tamperproof guard	100	620

SPECIFICATION

- Temperature setting range: 7°C - 28°C
- Max working pressure: 10 bar
- Frost Setting: 7°C
- Liquid filled



CP1
Minimum
Requirements



CA-200000



CA-100793

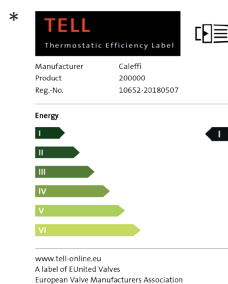
ECOCAL® ACCESSORIES



Ref no	Size	Description	Box	Unit
200001	N/A	ECOCAL® head only *	50	620
201000	N/A	ECOCAL® Remote Sensor Head 2m	10	620
472000	N/A	Remote adjusting and sensing for TRV 2m capillary	30	620
BI-100001	15mm x 8mm	Reducing bullet	400	620
BI-100002	15mm x 10mm	Reducing bullet	400	620
CA-100793	N/A	Tamperproof guard and allen key for tamperproof guard	100	620
CA-200510	10mm	ECOCAL® with elbows	20	640

SPECIFICATION

- Temperature setting range: 7°C - 28°C
- Max working pressure: 10 bar
- Frost Setting: 7°C
- Liquid filled



201000



472000

PRESETTABLE TRVS

421402



COMMERCIAL PRE-SETTABLE THERMOSTATIC RADIATOR VALVES



Ref no	Size	Connections	Body		
421402	½" x ½"	F x M BSP	Angled	50	610
422402	½" x ½"	F x M BSP	Straight	50	610

Equipped with an internal device for pre-setting the head loss hydraulic characteristics.

SPECIFICATION

- Temperature setting range: 7°C - 28°C
- Max differential pressure: 1 bar
- Frost setting: 7°C
- Order with CA-200000 ECOCAL® standard head and collar

105-2001



COMMERCIAL PRE-SETTABLE THERMOSTATIC RADIATOR VALVES TWIN PACK



Ref no	Size	Connections	Body
105-2001	½" x ½"	F x M BSP	Angled
105-2002	½" x ½"	F x M BSP	Straight

Equipped with an internal device for pre-setting the head loss hydraulic characteristics.

SPECIFICATION

- Temperature setting range: 7°C - 28°C
- Max differential pressure: 1 bar
- Frost setting: 7°C
- Includes CA-200000 ECOCAL® standard head and collar

CP1
Best
practice

PRESSURE INDEPENDANT DYNAMIC BALANCING TRVS

DYNAMICAL® THERMOSTATIC RADIATOR VALVE - NON-REVERSIBLE



Ref no	Size	Connections	Body	Description	Flow Rate Range	Box	Carton
230402	1/2"	Threaded BSP (G)	Angled	With rubber seal	20-120 l/h	50	610
230412	1/2"	BSP F x M (G)	Angled	With rubber seal	10-80 l/h (Low-Flow)	50	610
232412	1/2"	BSP M x M (G)	Angled	With rubber seal	10-80 l/h (Low-Flow)	50	610
231402	1/2"	Threaded BSP (G)	Straight	With rubber seal	20-120 l/h	50	610
231412	1/2"	BSP F x M (G)	Straight	With rubber seal	10-80 l/h (Low-Flow)	50	610
233412	1/2"	BSP M x M (G)	Straight	With rubber seal	10-80 l/h (Low-Flow)	50	610
230500	3/4"	Threaded BSP (G)	Angled	Without rubber seal	20-120 l/h	25	610
231500	3/4"	Threaded BSP (G)	Straight	Without rubber seal	20-120 l/h	25	610

Allows the automatic dynamic balancing and pressure independant adjustment of the thermal medium in the radiators of two pipe heating systems

SPECIFICATION

- Thermal medium working temperature range: 5°C - 95°C
- Max working pressure: 10 bar
- Max percentage of glycol: 30%
- Order with CA-200000 ECOCAL® standard head and collar



CP1
Best
practice



230402



231402

DYNAMICAL® TWIN PACK



Ref no	Size	Connections	Body	Finish	Description	Box	Carton
105-1513	1/2"	Threaded BSP (G)	Angled	White	With rubber seal	25	610
105-1515	1/2"	Threaded BSP (G)	Angled	Chrome	With rubber seal	25	610
105-1514	1/2"	Threaded BSP (G)	Straight	White	With rubber seal	25	610
105-1516	1/2"	Threaded BSP (G)	Straight	Chrome	With rubber seal	25	610
105-1522	15mm	Threaded BSP (G)	Angled	White	With rubber seal	25	610
105-1523	15mm	Threaded BSP (G)	Straight	White	With rubber seal	25	610
105-1532 *	1/2"	Threaded BSP (G)	Angled	White	With rubber seal - LF *	25	610
105-1533 *	1/2"	Threaded BSP (G)	Straight	White	With rubber seal - LF *	25	610

Allows the automatic dynamic balancing and pressure independant adjustment of the thermal medium in the radiators of two pipe heating systems

SPECIFICATION

- Thermal medium working temperature range: 5°C - 95°C
- Max working pressure: 10 bar
- Lockshield temperature medium range: 5°C - 100°C
- Max percentage of glycol: 30%
- Scale of adjustment ΔP (reg. 1-4) 10 - 150 kPa
(reg. 5-6) 15 - 150 kPa

* LF model has low flow rates min. setting 10l/h.

CP1
Best
practice



105-1513



105-1514

MANUAL RADIATOR VALVES



410410 LTC



ECLIPSE MANUAL RADIATOR VALVES

Ref no	Size	Connections	Body	Description		
CA-410408	8mm x 1/2"	Compression x M BSP	Angled	White head	50	1800
410410 LTC	10mm x 1/2"	Compression x M BSP	Angled	White head	50	1800
410415 LTC	15mm x 1/2"	Compression x M BSP	Angled	White head	50	1800
CA-410425	15mm x 1/2"	Compression x M BSP	Angled	Chrome head pair	50	1800
CA-406408	8mm x 1/2"	Compression x M BSP	Straight	White head	50	1800
CA-406410	10mm x 1/2"	Compression x M BSP	Straight	White head	50	1800
406415 LTC	15mm x 1/2"	Compression x M BSP	Straight	White head	50	1800
CA-406425	15mm x 1/2"	Compression x M BSP	Straight	Chrome head pair	50	1800

CA-410425



SPECIFICATION

- 10 bar
- BS 2767:10, serviceable packing gland
- Designed to match all the demands of modern sealed systems as well as traditional open vented systems
- Lockshield cap purpose designed to match ECOCAL®
- Max operating pressure: 10 bar
- Polished chrome finish (where appropriate)

220402



COMMERCIAL THERMOSTATIC RADIATOR VALVES - NON-REVERSIBLE



Ref no	Size	Connections	Body		
220402	1/2" x 1/2"	F x M BSP	Angled	50	610
220500	3/4" x 3/4"	F x M BSP	Angled	50	610
221402	1/2" x 1/2"	F x M BSP	Straight	50	610
221500	3/4" x 3/4"	F x M BSP	Straight	25	610
224402 *	1/2" x 1/2"	F x M BSP	Angled	20	610
CA-200000	ECOCAL® head and collar			40	610

224402



SPECIFICATION

- Temperature setting range: 7°C - 28°C
- Max differential pressure: 1 bar
- Order with CA-200000 ECOCAL® standard head and collar
- * Horizontal sensor.

CA-200000



MANUAL RADIATOR VALVES

SCREWED IRON THERMOSTATIC RADIATOR VALVE



Ref no	Size	Body	Connections	Description	Box	Pallet
105-1501	1/2"	Angled	Threaded BSP (G)	Wheel head *	50	1800
105-2201	3/4"	Angled	Threaded BSP (G)	Wheel head *	50	1800
105-1502	1/2"	Straight	Threaded BSP (G)	Wheel head *	50	1800
105-2202	3/4"	Straight	Threaded BSP (G)	Wheel head *	50	1800
105-1503	1/2"	Angled	Male thread BSP (R)	Lockshield	50	1800
105-2203	3/4"	Angled	Male thread BSP (R)	Lockshield	50	1800
105-1504	1/2"	Straight	Male thread BSP (R)	Lockshield	50	1800
105-2204	3/4"	Straight	Male thread BSP (R)	Lockshield	50	1800

SPECIFICATION

- Max working temperature: 100°C
 - Max working pressure: 10 bar
- * Wheel head codes contain the TRV head: ALT-200001.



105-1501



105-1502

SCREWED IRON THERMOSTATIC RADIATOR VALVE TWIN PACK



Ref no	Size	Body	Description	Box	Pallet
105-1505	1/2"	Angled	Thermostatic radiator valve + LS	50	1800
105-2205	3/4"	Angled	Thermostatic radiator valve + LS	50	1800
105-1506	1/2"	Straight	Thermostatic radiator valve + LS	50	1800
105-2206	3/4"	Straight	Thermostatic radiator valve + LS	50	1800

SPECIFICATION

- Temperature setting range: 7°C - 28°C
- Max working pressure: 10 bar
- Max differential pressure: 1 bar
- Frost setting: 7°C



105-1505



105-1506

RADIATOR VALVES - DECORATIVE RADIATOR VALVES

YU-JQAL024LC



YU-JQAL030LC



YU-JQAL029LC



DECORATIVE POLISHED RADIATOR VALVES



Ref no	Size	Connections	Body	Description		
YU-JQAL024LC	15mm x 1/2"	Compression x M BSP	Straight	Modern pair	30	1080
YU-JQAL025LC	15mm x 1/2"	Compression x M BSP	Angled	Modern pair	30	1080
YU-JQAL030LC	15mm x 1/2"	Compression x M BSP	Straight	Traditional cross head x2	18	1080
YU-JQAL028LC	15mm x 1/2"	Compression x M BSP	Angled	Traditional cross head x2	18	1080
YU-JQAL029LC	15mm x 1/2"	Compression x M BSP	90° corner	Modern pair	20	1200

SPECIFICATION

- Max working temperature: 85°C
- Max working pressure: 10 bar

YU-JQAL031LC



CLASSIC CHROME FINISH RADIATOR VALVE



Ref no	Size	Connections	Description		
YU-JQAL031LC	1/2"	Threaded BSP (G)	Polished Chrome Finish	20	200

The Classic thermostatic radiator valve, lockshield valve and radiator vent are of durable construction giving dependable performance for building services and domestic applications.

The chrome finish of the valves is ideal for designer interiors, period decors or restoration projects.

SPECIFICATION

- Max working temperature: 85°C
- Max working pressure: 10 bar
- Supplied with matching airvent

RADIATOR VALVES - DUAL FUEL RADIATOR VALVES

DUAL FUEL POLISHED RADIATOR VALVES



Ref no	Size	Connections	Description		
105-3001	15 mm x 1/2"	15mm compression x 1/2" M BSP	Dual Fuel Corner Radiator Valve	20	960

The wheelhead valve has the facility to allow an electric heater to pass through the valve into the vertical leg of a towel rail. When this is connected to an electricity supply it allows the towel rail to be heated when the central heating boiler is switched off, for example in summer.

SPECIFICATION

- Supplied as pair of wheelhead and lockshield valve



105-3001



T-PIECE FOR DUAL FUEL INSTALLATIONS



Ref no	Size	Connections		
106-3002	1/2" x 1/2" x 1/2"	M x F x F BSP	144	5760



106-3002

RADIATOR
VALVES



Visit our website
to download
our Radiator
Valve Brochure



EXTENSION PIECES & ELBOWS

106-1010



106-1012



YU-JQAL213HC



RADIATOR EXTENSION PIECES



Ref no	Size	Connections	Description	
106-1010	1/2"	F x M	10mm	232
106-1015	1/2"	F x M	15mm	576
106-1020	1/2"	F x M	20mm	480
106-1025	1/2"	F x M	25mm	384
106-1030	1/2"	F x M	30mm	360
106-1040	1/2"	F x M	40mm	288
106-1060	1/2"	F x M	60mm	192
106-1080	1/2"	F x M	80mm	144
106-1100	1/2"	F x M	100mm	108
106-1009	1/2"	DN15 x 15mm	100 mm Self cutting	144
106-1012	1/2"	DN15 x 15mm	60 mm Self cutting	180
106-1013	1/2"	DN15 x 15mm	60mm Telescopic	252
106-1014	1/2"	DN15 x 15mm	80mm Telescopic	198
YU-JQAL213HC	1/2"	DN15 x 15mm	ECOCAL® and Eclipse radiator drain off tail piece	200

459004



PUSH FIT ELBOW



Ref no	Size	Description	
459004	15mm x 10mm	15mm plain tail x 10mm pushfit elbow (pair)	25
106-2001	15mm x 15mm	15mm plain tail x 15mm pushfit elbow (pair)	100

SPECIFICATION

- Supplied in pairs
- Solder-free connection
- Demountable push fit

CALEFFI CODE® REMOTE THERMAL REGULATION SYSTEM FOR RADIATORS



Ref no	Colour	Description	
215510	White	Wireless electronic control for thermostatic or convertible radiator valves	10
215001	White	Wireless ambient temperature sensor	10
215002	White	Wireless ambient temperature sensor with boiler contact	10
215100	White	Wireless multi-zone temperature regulation gateway	10
215015	White	Wireless multi-zone temperature regulation gateway with built-in GSM, UMTS, LTE modem	10
449300	White	Knob for lockshield valve	10
215510 BLK	Black	Wireless electronic control for thermostatic or convertible radiator valves	10
215001 BLK	Black	Wireless ambient temperature sensor	10
215002 BLK	Black	Wireless ambient temperature sensor with boiler contact	10
215100 BLK	Black	Wireless multi-zone temperature regulation gateway	10
215015 BLK	Black	Wireless multi-zone temperature regulation gateway with built-in GSM, UMTS, LTE modem	10
449300 BLK	Black	Knob for lockshield valve	10

With CALEFFI CODE®, you can individually control the temperature of each room in your home. Manage every room wherever you are, at any time, using your smartphone app. Adjust the temperature to your needs following a few simple steps.



Program your comfort as you wish

You can program every moment of the day for each room. The system helps you by suggesting the best scheduling for you: all you need to do is answer a few simple questions.

Ready for any request

Too hot? Lower the temperature of one or more rooms temporarily without changing the programmed settings. Are you doing the cleaning with open windows? Lower the temperature temporarily: ventilation will be efficient, with no unnecessary costs, allowing you to help the environment and save money. Are you about to receive unexpected guests and want to make sure they are as comfortable as possible? Increase the temperature temporarily without changing your usual programming criteria.

Holiday Mode

Are you about to leave and have forgotten to turn off the heating? Use the app wherever you are. Don't worry, you will find just the right temperature when you get back.

Comfort Control

The COMFORT CONTROL thermostatic head detects the temperature of the room thanks to its integrated sensors and automatically adjusts it according to your preferences. Thanks to the colours of the integrated LED, you can keep the temperature under control at a glance. Try it yourself!

Gateway

GATEWAY is the brain of the entire system. It controls and manages your home heating according to your programming and your needs, communicating with valves and sensors and interacting with the CALEFFI CODE® app.

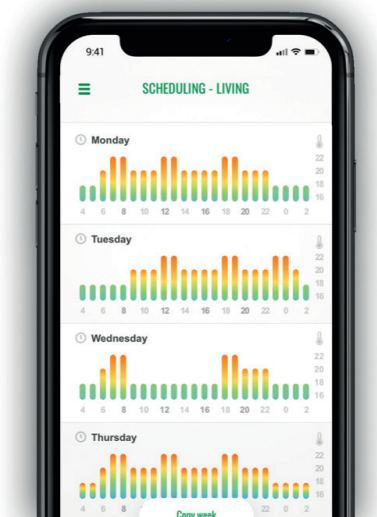
Sensor

The SENSOR temperature sensor improves temperature detection in the areas where it is installed, ensuring the ideal temperature.

The CALEFFI CODE® smart heating system has been designed for every style. Especially for the one you like.



Now compatible with
Amazon Alexa and Google Chrome



UP TO
30%
ENERGY SAVING

Pressure Reducing Valves

Pressure Reducing Valves (PRV's) reduce the incoming pressure from a mains supply or a boosted supply within a building. This limits high-pressure water that can seriously damage components in heating and potable systems which can lead to damage or even burst pipes and seals. Pressure Reducing Valves are designed to reduce water pressure and maintain it to a set level preventing damage to those components installed downstream of the PRV. The Caleffi range of valves are designed to cover domestic, commercial and light-industrial applications ranging from DN15 to DN300. Meeting the latest European standard and UK water regulations, the range of pressure reducing valves provides pressure control under both dynamic and static flow condition (dependent on model).

RANGE OVERVIEW

- Size ranges from DN15 – DN300
- Various inlet pressures of up to 25 bar
- Various maximum inlet temperatures up to 85°C
- WRAS and Kiwa Reg4 approved
- Domestic, commercial and light industrial applications

		Domestic use 	Commercial use 	
ALTECNIC APARTMENT CONTROL ASSEMBLY™ & PLUS	✓	✓	✓	✓
Series 533H - PRESCAL®	✓	✓	✓	✓
Series 533C - PRESCAL®	✓	✓	✓	✓
Series 533LB - PRESCAL®	✓	✓		✓
Series 535 - PRESCAL®	✓	✓	✓	✓
Series 535H - PRESCAL®	✓		✓	✓
Series 536 - PRESCAL®	✓		✓	✓
Series 300 - PRESCAL®			✓	
Series 576			✓	
Series 5360	✓		✓	✓

Series 535 - PRESCAL® High Performance
Dial Up Pressure Reducing Valve
535051H



Pressure
Reducing
Valves

ALTECNIC APARTMENT CONTROL ASSEMBLY PLUS™



133-5041

NEW

ALTECNIC APARTMENT CONTROL ASSEMBLY PLUS™

Ref no	Description	
133-5041	¾" ALTECNIC APARTMENT CONTROL ASSEMBLY PLUS™ Blanked	1
133-5042	1" ALTECNIC APARTMENT CONTROL ASSEMBLY PLUS™ Blanked	1
133-5043	¾" ALTECNIC APARTMENT CONTROL ASSEMBLY PLUS™ c/w Cold Cartridge	1
133-5044	1" ALTECNIC APARTMENT CONTROL ASSEMBLY PLUS™ c/w Cold Cartridge	1
133-5045	¾" ALTECNIC APARTMENT CONTROL ASSEMBLY PLUS™ c/w Hot Cartridge	1
133-5046	1" ALTECNIC APARTMENT CONTROL ASSEMBLY PLUS™ c/w Hot Cartridge	1

The ALTECNIC APARTMENT CONTROL ASSEMBLY PLUS™ combines several functions into two monobloc bodies with a carrier for an optional water meter for use in multi-occupancy buildings.

- ✓ Isolation & Pressure Control consisting of a ball isolating valve, PRV, Pressure Gauge, Test Port.*
- ✓ Water meter carrier with blanking cap, with option to add cold or hot MBUS meter cartridges.
- ✓ Backflow Prevention & Isolation with test port, a ball isolating valve, a double check valve, a drain/air vent and two swivel connections.*
(The drain cock is rotatable 360° on two axis around the operating stem and body).

Isolation & Pressure Control body and Backflow Prevention & Isolation body is low lead brass. †



SPECIFICATION

- Max Working Temperature: 80°C
- Gauge: 0 - 10 Bar ¼" connection
- Connection: FBSP
- Max Working Pressure: 16 Bar
- Test ports: ¼" BSP
- PRV adjustment range: 1 - 5.5 Bar
- Strainer Mesh: 0.51mm
- Body: Brass
- Finish: Brass

Find out more
about the ALTECNIC
APARTMENT CONTROL
ASSEMBLY PLUS™ here



ALTECNIC APARTMENT CONTROL ASSEMBLY PLUS™

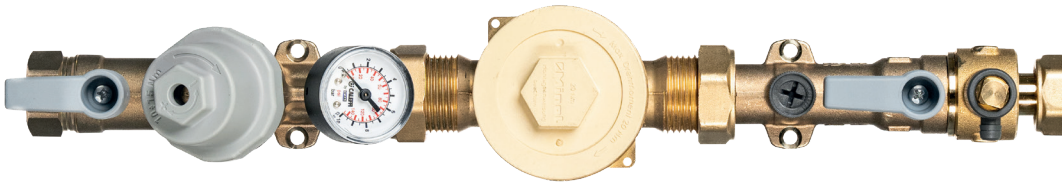
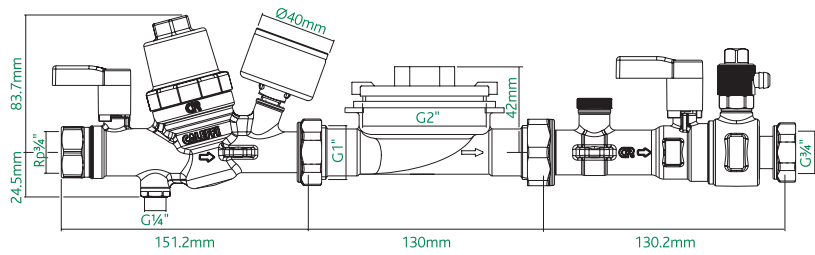
ALTECNIC APARTMENT CONTROL ASSEMBLY PLUS™ BLANKED

133-5041

¾" ALTECNIC APARTMENT CONTROL ASSEMBLY PLUS™ BLANKED

133-5042

1" ALTECNIC APARTMENT CONTROL ASSEMBLY PLUS™ BLANKED



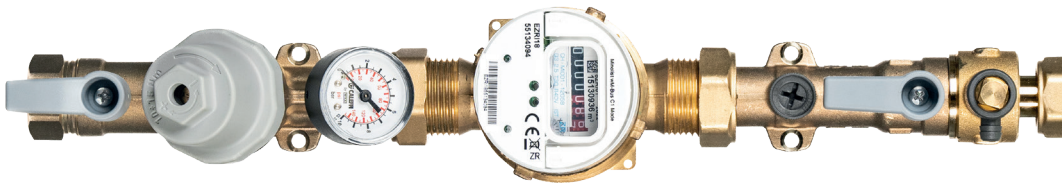
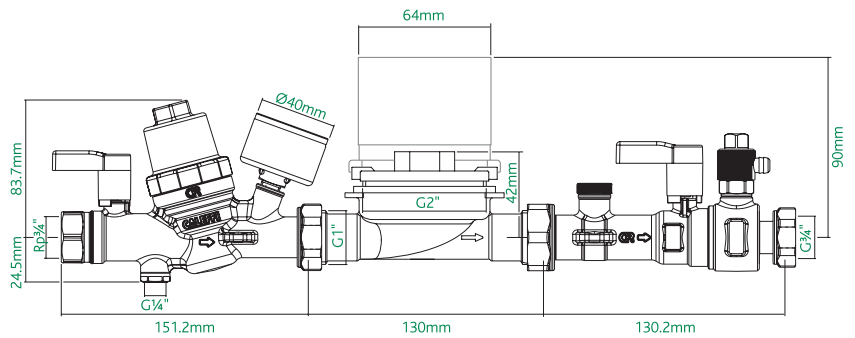
ALTECNIC APARTMENT CONTROL ASSEMBLY PLUS™ C/W COLD CARTRIDGE

133-5043

¾" ALTECNIC APARTMENT CONTROL ASSEMBLY PLUS™ C/W COLD CARTRIDGE

133-5044

1" ALTECNIC APARTMENT CONTROL ASSEMBLY PLUS™ C/W COLD CARTRIDGE



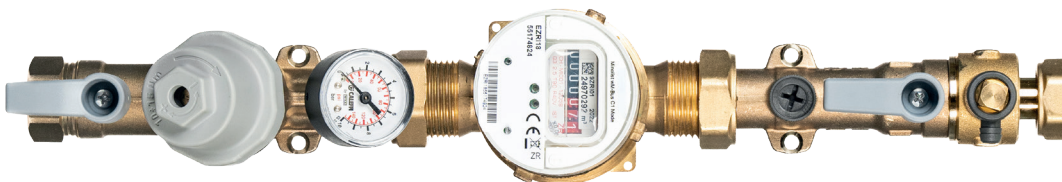
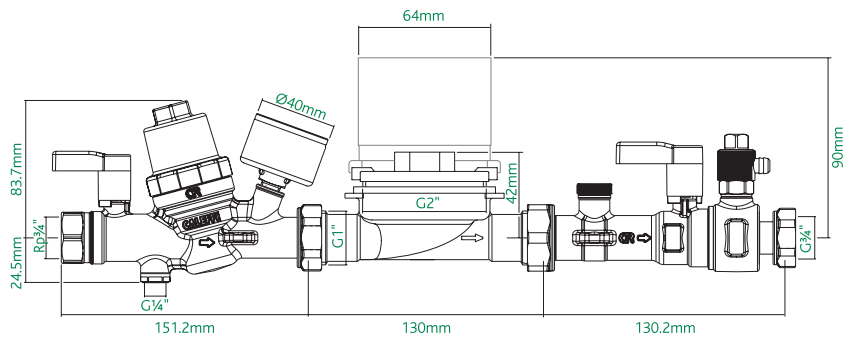
ALTECNIC APARTMENT CONTROL ASSEMBLY PLUS™ C/W HOT CARTRIDGE

133-5045

¾" ALTECNIC APARTMENT CONTROL ASSEMBLY PLUS™ C/W HOT CARTRIDGE

133-5046

1" ALTECNIC APARTMENT CONTROL ASSEMBLY PLUS™ C/W HOT CARTRIDGE



ALTECNIC APARTMENT CONTROL ASSEMBLY™



539050H *



133-5031



CBN539050



557010



ALTECNIC APARTMENT CONTROL ASSEMBLY™

Ref no	Description	
539050H	¾" x 1" ALTECNIC APARTMENT CONTROL ASSEMBLY™*	1
133-5031	¾" x 1" ALTECNIC APARTMENT CONTROL ASSEMBLY™* complete with insulation and pressure gauge	1
133-5001	ALTECNIC APARTMENT CONTROL ASSEMBLY™* c/w Cold Water Meter	1
133-5011 **	ALTECNIC APARTMENT CONTROL ASSEMBLY™* c/w Cold Water Meter MBUS	1
133-5002	ALTECNIC APARTMENT CONTROL ASSEMBLY™* c/w Hot Water Meter	1
133-5012 **	ALTECNIC APARTMENT CONTROL ASSEMBLY™* c/w Hot Water Meter MBUS	1
133-5021	ALTECNIC APARTMENT CONTROL ASSEMBLY™* c/w Class D Water Meter*	1
CBN539050	Insulation for ALTECNIC APARTMENT CONTROL ASSEMBLY™	1
206-5001	Cyble M-BUS with 5m lead	1
557010	Pressure gauge 0-10 1/4 back 40mm dial	1

The ALTECNIC APARTMENT CONTROL ASSEMBLY™ offers a number of functions in one compact valve. Consisting of the Caleffi 533H PRV diaphragm, check-valve, water meter and isolating ball valve, the ALTECNIC APARTMENT CONTROL ASSEMBLY™ allows the easy monitoring and control of water supply to a range of residential and commercial developments.

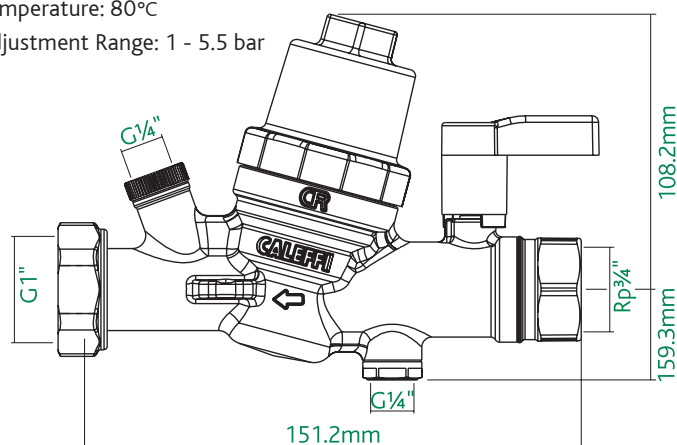
- ✓ Available in 5 different configurations including 3 options of water meter
- ✓ In-built fixing point allows for easy installation, saving time and cost of other fixings
- ✓ Insulation cover features labelling area for easy identification
- ✓ Available with water meter with MBUS connectivity, allowing for remote monitoring of water usage
- ✓ Comes supplied with PRV cartridge cover
- ✓ Self contained cartridge

SPECIFICATION

- Combined isolating ball valve, pressure reducing cartridge and check valve
- Compact space saving design
- ¼" port for pressure gauge
- Dedicated insulation jacket
- Matrix solution with optional water meters class A or class D metering
- **MBUS compatibility (some models)
- Ideal for multi-occupancy buildings
- PRV cartridge certified to EN 1567
- Max inlet pressure: 10 bar
- Max temperature: 80°C
- PRV Adjustment Range: 1 - 5.5 bar



Find out more about the ALTECNIC APARTMENT CONTROL ASSEMBLY™ here



ALTECNIC APARTMENT CONTROL ASSEMBLY™

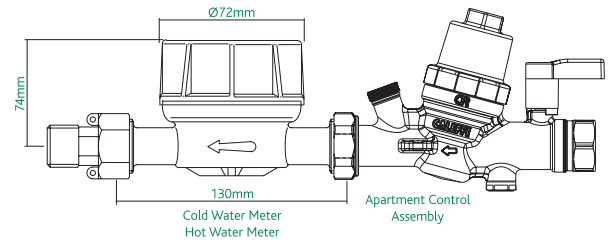
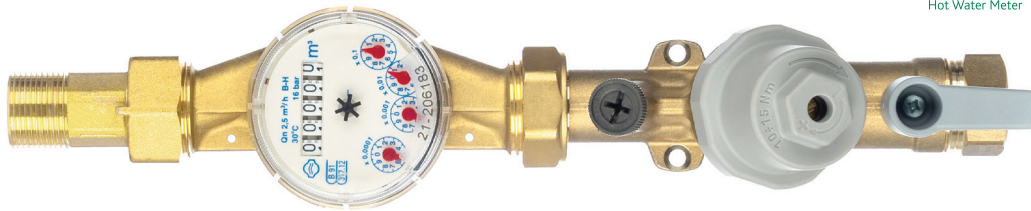
ALTECNIC APARTMENT CONTROL ASSEMBLY™ C/W WATER METER

133-5001

ALTECNIC APARTMENT CONTROL ASSEMBLY™ C/W COLD WATER METER

133-5002

ALTECNIC APARTMENT CONTROL ASSEMBLY™ C/W HOT WATER METER



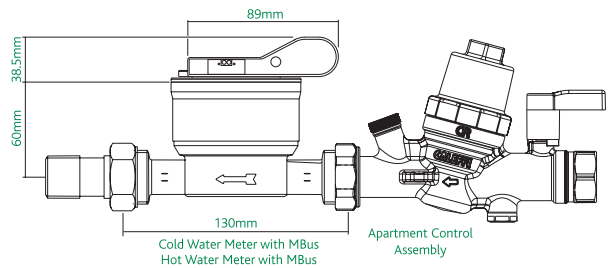
ALTECNIC APARTMENT CONTROL ASSEMBLY™ C/W WATER METER M-BUS

133-5011

ALTECNIC APARTMENT CONTROL ASSEMBLY™ C/W COLD WATER METER M-BUS

133-5012

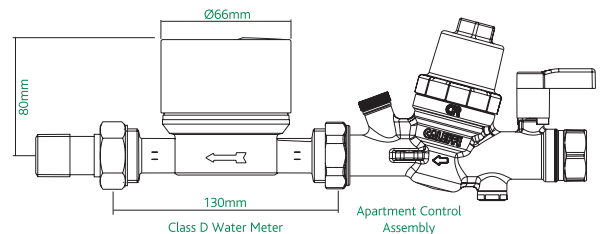
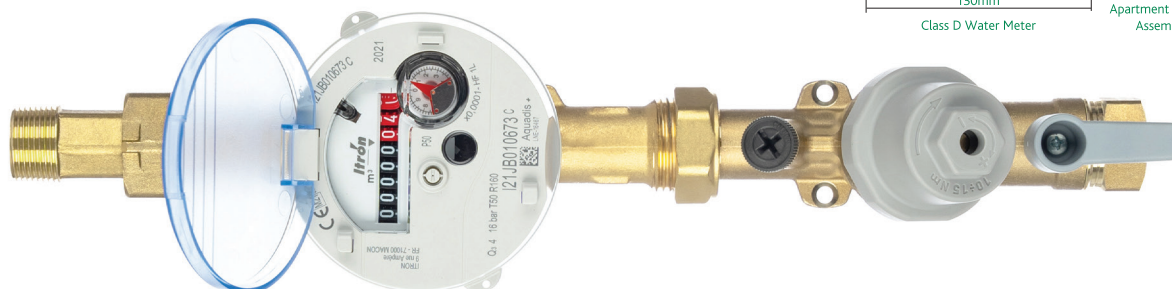
ALTECNIC APARTMENT CONTROL ASSEMBLY™ C/W HOT WATER METER M-BUS



ALTECNIC APARTMENT CONTROL ASSEMBLY™ C/W CLASS D WATER METER

133-5021

ALTECNIC APARTMENT CONTROL ASSEMBLY™ C/W CLASS D WATER METER



PRESSURE REDUCING VALVES - SERIES 533

533641H



533741H



533841H



SERIES 533 - PRESCAL® HIGH TEMPERATURE PRESSURE REDUCING VALVE WITH COMPRESSION ENDS



Ref no	Size	Max Pressure at Inlet	Outlet Adj Range	Connections	Gauge	Temperature		
533641H	15mm	16 bar	1 - 5.5 bar	Compression	No Port	Max 80°C	20	880
533651H	22mm	16 bar	1 - 5.5 bar	Compression	No Port	Max 80°C	20	880
533741H	15mm	16 bar	1 - 5.5 bar	Compression	Port Only	Max 80°C	20	880
533751H	22mm	16 bar	1 - 5.5 bar	Compression	Port Only	Max 80°C	20	880
533761H	28mm	16 bar	1 - 5.5 bar	Compression	Port Only	Max 80°C	20	880
533841H	15mm	16 bar	1 - 5.5 bar	Compression	With Gauge	Max 80°C	20	880
533851H	22mm	16 bar	1 - 5.5 bar	Compression	With Gauge	Max 80°C	20	880
533861H	28mm	16 bar	1 - 5.5 bar	Compression	With Gauge	Max 80°C	20	880

The series 533 high performance range of pressure reducing valves is designed for domestic and semi-commercial applications.



SPECIFICATION

- Max inlet pressure: 16 bar
- Max temperature: 80°C
- Outlet adj range: 1 - 5.5 bar
- Pressure gauge connection: G1/4"
- EN 1567 approved
- High flow rate
- Low operational noise

533441H LTC



533241H LTC



103-2021



SERIES 533 - PRESCAL® HIGH PERFORMANCE PRESSURE REDUCING VALVES



Ref no	Size	Max Pressure at Inlet	Outlet Adj Range	Connections	Gauge	Temperature		
533441H LTC	1/2"	16 bar	1 - 5.5 bar	F x F BSP	Port Only	Max 80°C	20	880
533451H LTC	3/4"	16 bar	1 - 5.5 bar	F x F BSP	Port Only	Max 80°C	20	880
533241H LTC	1/2"	16 bar	1 - 5.5 bar	F x F BSP	With Gauge	Max 80°C	20	880
103-2020 *	15mm	16 bar	1 - 5.5 bar	Press Fit	With Gauge	Max 80°C	20	880
533251H LTC	3/4"	16 bar	1 - 5.5 bar	F x F BSP	With Gauge	Max 80°C	20	880
103-2021 *	22mm	16 bar	1 - 5.5 bar	Press Fit	With Gauge	Max 80°C	20	880

The series 533 high performance range of pressure reducing valves is designed for domestic and semi-commercial applications.



SPECIFICATION

- Max inlet pressure: 16 bar
- Max temperature: 80°C
- Outlet adj range: 1 - 5.5 bar
- Pressure gauge connection: G1/4"
- EN 1567 approved
- High flow rate
- Low operational noise

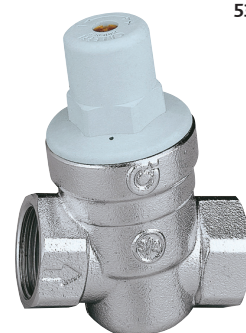
* Mapress Press Fit Connection.

PRESSURE REDUCING VALVES - SERIES 533

SERIES 533 - COLD PRESSURE REDUCING VALVE



Ref no	Size	Max Pressure at Inlet	Outlet Adj Range	Connections	Gauge	Temperature		
533641 *	15mm	16 bar	1 - 6 bar	Compression	No Port	Max 40°C	20	880
533651 *	22mm	16 bar	1 - 6 bar	Compression	No Port	Max 40°C	20	880
533741 *	15mm	16 bar	1 - 6 bar	Compression	Port Only	Max 40°C	20	880
533751 *	22mm	16 bar	1 - 6 bar	Compression	Port Only	Max 40°C	20	880
533841 *	15mm	16 bar	1 - 6 bar	Compression	With Gauge	Max 40°C	20	880
533851 *	22mm	16 bar	1 - 6 bar	Compression	With Gauge	Max 40°C	20	880
533041	1/2"	16 bar	1 - 6 bar	FBSP	No Port	Max 40°C	20	880
533051	3/4"	16 bar	1 - 6 bar	FBSP	No Port	Max 40°C	20	880
533241	1/2"	16 bar	1 - 6 bar	FBSP	With Gauge	Max 40°C	20	880
533251	3/4"	16 bar	1 - 6 bar	FBSP	With Gauge	Max 40°C	20	880
533441	1/2"	16 bar	1 - 6 bar	FBSP	Port Only	Max 40°C	20	880
533451	3/4"	16 bar	1 - 6 bar	FBSP	Port Only	Max 40°C	20	880
103-2010 **	15mm	16 bar	1 - 6 bar	Press Fit	With Gauge	Max 40°C	20	880
103-2011 **	22mm	16 bar	1 - 6 bar	Press Fit	With Gauge	Max 40°C	20	880



533041

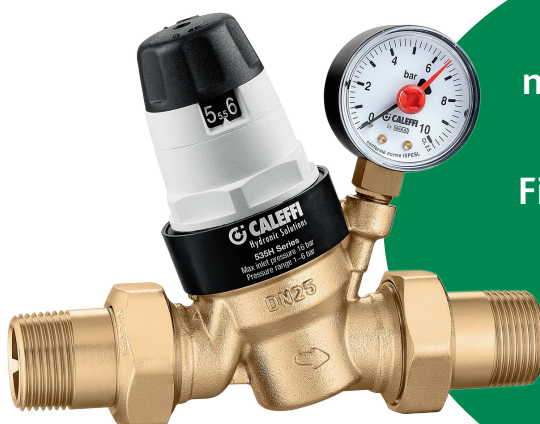


103-2011

SPECIFICATION

- Max inlet pressure: 16 bar
- Max temperature: 40°C
- Outlet adj range: 1 - 6 bar
- Pressure gauge connection: G1/4"

** Mapress Press Fit Connection.



Want to learn more about Pressure Reducing Valves?
Find out more on our youtube channel



PRESSURE REDUCING VALVES - SERIES 533

533442 CST



SERIES 533LB - PRESCAL® PRESSURE REDUCING VALVE - 4MS POSITIVE LIST COMPLIANT



Ref no	Size	Max Pressure at Inlet	Outlet Adj Range	Connections	Gauge	Temperature		
533442 CST	1/2"	12 bar	1 - 6 bar	F x F BSP	Port Only	Max 40°C	20	880

The series 533LB range of pressure reducing valves is designed for domestic and semi-commercial applications.



SPECIFICATION

- Max inlet pressure: 12 bar
- Max temperature: 40°C
- Outlet adj range: 1 - 6 bar
- Pressure gauge connection: G1/4"
- Manufactured with materials from 4MS positive list material - low lead alloy
- Dynamic control
- BS EN 1567 approved

533430H



SERIES 533H - INCLINED MICRO PRESSURE REDUCING VALVE



Ref no	Size	Max Pressure at Inlet	Outlet Adj Range	Connections	Gauge	Temperature		
533430H	3/8"	16 bar	0.8 - 4 bar	F x F BSP	Port Only	Max 80°C	20	720
533230H	3/8"	16 bar	0.8 - 4 bar	F x F BSP	With Gauge	Max 80°C	20	720

The series 533H range of pressure reducing valves is designed for domestic and semi-commercial applications.



SPECIFICATION

- Max inlet pressure: 16 bar
- Max temperature: 80°C
- Outlet adj range: 0.8 - 4 bar
- Pressure gauge connection: G1/2"
- Dynamic control

PRESSURE REDUCING VALVES - SERIES 535

SERIES 535 - PRESCAL® DIAL UP PRESSURE REDUCING VALVE



Ref no	Size	Max Pressure at Inlet	Outlet Adj Range	Connections	Gauge	Temperature		
535022	22mm	25 bar	1 - 6 bar	Compression	Port Only	Max 40°C	10	720
535041	1/2"	25 bar	1 - 6 bar	M x M BSP	With Gauge	Max 40°C	5	240
535051	3/4"	25 bar	1 - 6 bar	M x M BSP	With Gauge	Max 40°C	5	240
535061	1"	25 bar	1 - 6 bar	M x M BSP	With Gauge	Max 40°C	5	240
535071	1 1/4"	25 bar	1 - 6 bar	M x M BSP	With Gauge	Max 40°C	4	84
535081	1 1/2"	25 bar	1 - 6 bar	M x M BSP	With Gauge	Max 40°C	4	84
535091	2"	25 bar	1 - 6 bar	M x M BSP	With Gauge	Max 40°C	4	84
535040	1/2"	25 bar	1 - 6 bar	M x M BSP	Port Only	Max 40°C	5	240
535050	3/4"	25 bar	1 - 6 bar	M x M BSP	Port Only	Max 40°C	5	240
535060	1"	25 bar	1 - 6 bar	M x M BSP	Port Only	Max 40°C	5	240
535070	1 1/4"	25 bar	1 - 6 bar	M x M BSP	Port Only	Max 40°C	4	84
535080	1 1/2"	25 bar	1 - 6 bar	M x M BSP	Port Only	Max 40°C	4	84
535090	2"	25 bar	1 - 6 bar	M x M BSP	Port Only	Max 40°C	4	84
103-2030 *	15mm	25 bar	1 - 6 bar	Press Fit	With Gauge	Max 40°C	5	240
103-2031 *	22mm	25 bar	1 - 6 bar	Press Fit	With Gauge	Max 40°C	5	240
103-2032 *	28mm	25 bar	1 - 6 bar	Press Fit	With Gauge	Max 40°C	5	240
103-2033 *	35mm	25 bar	1 - 6 bar	Press Fit	With Gauge	Max 40°C	4	84
103-2034 *	42mm	25 bar	1 - 6 bar	Press Fit	Port Only	Max 40°C	4	84
103-2035 *	54mm	25 bar	1 - 6 bar	Press Fit	Port Only	Max 40°C	4	84

The series 535 range of dial up pressure reducing valves is designed for large domestic semi-commercial and industrial applications.



SPECIFICATION

- Max inlet pressure: 25 Bar
- Max temperature: 40°C
- Outlet adj range: 1 - 6 bar
- Pressure gauge connection: G1/4"
- BS EN 1567 approved

* Mapress Press Fit Connection.



535022



535051



103-2031 *

PRESSURE REDUCING VALVES - SERIES 535H

535022H



535051H



SERIES 535H - PRESCAL® HIGH PERFORMANCE DIAL UP PRESSURE REDUCING VALVE



Ref no	Size	Max Pressure at Inlet	Outlet Adj Range	Connections	Gauge	Temperature		
535015H	15mm	25 bar	1 - 6 bar	Compression	Port Only	Max 80°C	10	240
535022H	22mm	25 bar	1 - 6 bar	Compression	Port Only	Max 80°C	10	240
535028H	28mm	25 bar	1 - 6 bar	Compression	Port Only	Max 80°C	5	240
535041H	½"	25 bar	1 - 6 bar	M x M BSP	With Gauge	Max 80°C	5	240
535051H	¾"	25 bar	1 - 6 bar	M x M BSP	With Gauge	Max 80°C	5	240
535061H	1"	25 bar	1 - 6 bar	M x M BSP	With Gauge	Max 80°C	5	240
535071H	1 ¼"	25 bar	1 - 6 bar	M x M BSP	With Gauge	Max 80°C	4	240
535081H	1 ½"	25 bar	1 - 6 bar	M x M BSP	With Gauge	Max 80°C	4	84
535091H	2"	25 bar	1 - 6 bar	M x M BSP	With Gauge	Max 80°C	4	84
535040H	½"	25 bar	1 - 6 bar	M x M BSP	Port Only	Max 80°C	5	240
535050H	¾"	25 bar	1 - 6 bar	M x M BSP	Port Only	Max 80°C	5	240
535060H	1"	25 bar	1 - 6 bar	M x M BSP	Port Only	Max 80°C	5	240
535070H	1 ¼"	25 bar	1 - 6 bar	M x M BSP	Port Only	Max 80°C	4	84
535080H	1 ½"	25 bar	1 - 6 bar	M x M BSP	Port Only	Max 80°C	4	84
535090H	2"	25 bar	1 - 6 bar	M x M BSP	Port Only	Max 80°C	4	84
103-2040 *	15mm	25 bar	1 - 6 bar	Press Fit	Port Only	Max 80°C	5	240
103-2041 *	22mm	25 bar	1 - 6 bar	Press Fit	With Gauge	Max 80°C	5	240
103-2042 *	28mm	25 bar	1 - 6 bar	Press Fit	With Gauge	Max 80°C	5	240
103-2043 *	35mm	25 bar	1 - 6 bar	Press Fit	With Gauge	Max 80°C	4	240
103-2044 *	42mm	25 bar	1 - 6 bar	Press Fit	With Gauge	Max 80°C	4	84
103-2045 *	54mm	25 bar	1 - 6 bar	Press Fit	With Gauge	Max 80°C	4	84

The series 535H range of dial up pressure reducing valves is designed for large domestic semi-commercial and industrial applications.



SPECIFICATION

- Max inlet pressure: 25 bar
- Max temperature: 80°C
- Outlet adj range: 1 - 6 bar
- Pressure gauge connection: G¼"
- Factory setting: 3 bar
- Certification: BS EN 1567
- Static control

* Mapress Press Fit Connection.



PRESSURE REDUCING VALVES - SERIES 536

SERIES 536 - PRESCAL® PRESSURE REDUCING VALVE



Ref no	Size	Max Pressure at Inlet	Outlet Adj Range	Connections	Gauge	Temperature		
536040	1/2"	25 bar	0.5 - 6 bar	M x M BSP	Port Only	Max 80°C	5	180
536050	3/4"	25 bar	0.5 - 6 bar	M x M BSP	Port Only	Max 80°C	5	180
536060	1"	25 bar	0.5 - 6 bar	M x M BSP	Port Only	Max 80°C	5	180
536070	1 1/4"	25 bar	0.5 - 6 bar	M x M BSP	Port Only	Max 80°C	4	180
536080	1 1/2"	25 bar	0.5 - 6 bar	M x M BSP	Port Only	Max 80°C	4	180
536590	2"	25 bar	0.5 - 6 bar	M x M BSP	Port Only	Max 80°C	-	-
536041	1/2"	25 bar	0.5 - 6 bar	M x M BSP	With Gauge	Max 80°C	5	180
536051	3/4"	25 bar	0.5 - 6 bar	M x M BSP	With Gauge	Max 80°C	5	180
536061	1"	25 bar	0.5 - 6 bar	M x M BSP	With Gauge	Max 80°C	5	180
536071	1 1/4"	25 bar	0.5 - 6 bar	M x M BSP	With Gauge	Max 80°C	4	180
536081	1 1/2"	25 bar	0.5 - 6 bar	M x M BSP	With Gauge	Max 80°C	4	180
536591	2"	25 bar	0.5 - 6 bar	M x M BSP	2 Gauges	Max 80°C	-	-
536240	1/2"	25 bar	0.5 - 6 bar	F x F BSP	Port Only	Max 80°C	5	180
536250	3/4"	25 bar	0.5 - 6 bar	F x F BSP	Port Only	Max 80°C	5	180
536260	1"	25 bar	0.5 - 6 bar	F x F BSP	Port Only	Max 80°C	5	180
536241	1/2"	25 bar	0.5 - 6 bar	F x F BSP	With Gauge	Max 80°C	5	180
536251	3/4"	25 bar	0.5 - 6 bar	F x F BSP	With Gauge	Max 80°C	5	180
536261	1"	25 bar	0.5 - 6 bar	F x F BSP	With Gauge	Max 80°C	5	180
103-2050 *	15mm	25 bar	0.5 - 6 bar	Press Fit	With Gauge	Max 80°C	5	180
103-2051 *	22mm	25 bar	0.5 - 6 bar	Press Fit	With Gauge	Max 80°C	5	180
103-2052 *	28mm	25 bar	0.5 - 6 bar	Press Fit	With Gauge	Max 80°C	5	180
536660	DN65	25 bar	0.5 - 6 bar	Flanged PN16	2 Gauges	Max 80°C	-	-

The series 536 range of pressure reducing valves is designed for semi-commercial and industrial applications.

SPECIFICATION

- Max inlet pressure: 25 bar
- Max temperature: 80°C
- Outlet adj range: 0.5 - 6 bar
- Pressure gauge connection: G1/4"
- Static control

* Mapress Press Fit Connection.



536040



536251



536660



103-2051 *

PRESSURE REDUCING VALVES - SERIES 300

FL-300100



FULL
BORE

SERIES 300 - PRESCAL® PRESSURE REDUCING VALVE WITH FLANGED CONNECTIONS



Ref no	Size	Max Pressure at Inlet	Connections	Gauge	Temperature
FL-30050	DN50	16 bar	Flanged PN16	With Gauge	Max 85°C
FL-30065	DN65	16 bar	Flanged PN16	With Gauge	Max 85°C
FL-30080	DN80	16 bar	Flanged PN16	With Gauge	Max 85°C
FL-300100	DN100	16 bar	Flanged PN16	With Gauge	Max 85°C
FL-300150	DN150	16 bar	Flanged PN16	With Gauge	Max 85°C
FL-300200	DN200	16 bar	Flanged PN16	With Gauge	Max 85°C
FL-300250	DN250	16 bar	Flanged PN16	With Gauge	Max 85°C
FL-300300	DN300	16 bar	Flanged PN16	With Gauge	Max 85°C

The series 300 range is designed for commercial and industrial applications.

SPECIFICATION

- Max inlet pressure: 16 bar
- Max temperature: 85°C
- Pressure gauge connection: G1/4"
- Flanged PN16 (PN25 on request)
- Pilot operated offering total control



PRESSURE REDUCING VALVES - SERIES 576 & 5360

SERIES 576 - DIRECT ACTING PRESSURE REDUCING VALVE



Ref no	Size	Connections	Temperature
576062	DN65	Flanged PN16	Max 60°C
576082	DN80	Flanged PN16	Max 60°C
576102	DN100	Flanged PN16	Max 60°C
576120	DN125	Flanged PN16	Max 60°C
576150	DN150	Flanged PN16	Max 60°C
576200	DN200	Flanged PN16	Max 60°C

The model 576 reduces a higher inlet pressure to a lower downstream pressure, regardless of upstream pressure and flow variations. The simple and robust design allows stable operation, minimal maintenance as well as an assembly in various positions.

SPECIFICATION

- Max temperature: 60°C
- Pressure gauge connection: G1/4"
- Flanged PN16 (PN25 & PN40 on request)
- Max upstream pressure: 16 bar
- Downstream pressure: 2 - 14 bar



576082

SERIES 5360 - PRESSURE REDUCING VALVE FOR 1ST STAGE CONTROL



Ref no	Size	Connections	Temperature	Box	Carton
536043 AUS	1/2"	M x M BSP	Max 80°C	5	180
536053 AUS	3/4"	M x M BSP	Max 80°C	5	180
536063 AUS	1"	M x M BSP	Max 80°C	5	180
536073 AUS	1 1/4"	M x M BSP	Max 80°C	5	180
536083 AUS	1 1/2"	M x M BSP	Max 80°C	5	180

The 5360 pressure reducing valve is a high performance valve manufactured specifically for high rise buildings and other applications where high pressures are present and require staged pressure control. The 5360 pressure reducing valve carries out the first stage of pressure reduction in a two valve series where the pressure ratio between the inlet and outlet would be too high for a single pressure reducing valve to control.

SPECIFICATION

- Max inlet pressure: 25 bar
- Max temperature: 80°C
- Pressure gauge connection: G1/4"
- Includes gauge
- Outlet pressure setting range: 6 - 10 bar
- Factory setting: 8 bar



536043 AUS

Heat Pumps

Heat pump installations are growing in popularity as they improve the efficiency of energy systems and can reduce bills by up to 26%*. They can be a costly investment that needs to be protected and as such careful consideration should be used when selecting components to optimise and protect each part of the system.

Altecnic offers a range of specifically designed heat pump products.



RANGE OVERVIEW

- Anti-freeze/ frost protection
- Buffer tanks 8-100 Litres
- Dirt and Air Separation
- Commissioning & connection packs

* <https://www.greenmatch.co.uk/blog/2014/08/the-running-costs-of-heat-pumps#:~:text=Heat%20pumps%20can%20provide%20significant,to%20a%20new%20gas%20boiler.>

iStop®

SERIES 108 - iStop®
Anti-freeze Valve
108301



Heat
Pumps

HEAT PUMPS - ACCESSORIES

133-5102



FILTER & FROST PROTECTION PACK



Ref no	Description
133-5102	DIRTMAG® PLUS, 28mm Anti-Freeze Valves & High Flow Bypass Valve (Compression)
133-1064	DIRTMAG® PLUS, 1" Anti-Freeze Valves & High Flow Bypass Valve (Male)

PACK INCLUDES:

- DIRTMAG® PLUS - See page 64 for product specification
- 2 x Anti-Freeze Valves - See page 60 for product specification
- 1 x High Flow Bypass - See page 61 for product specification

133-5101



COMMISSIONING PACK - OUTDOOR / INDOOR MODEL



Ref no	Description
133-5101	Fill & Flush Valve & Flow Meter

PACK INCLUDES:

- 1 x 28mm Fill & Flush Valve (124-1502) - See page 66 for product specification
- 1 x 1" Flow Meter (132602) - See page 66 for product specification

133-5100



CONNECTION PACK - OUTDOOR MODEL

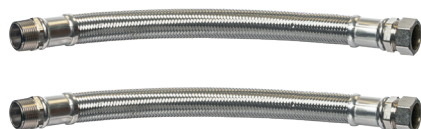


Ref no	Description
133-5100	Swivel Filter Isolation Valve & Swivel Isolation Valve

PACK INCLUDES:

- 1 x 28mm x 1" Swivel Filter Isolation Valve (AI 0396A062815CR)
- 1 x 28mm x 1" Swivel Isolation Valve (124-1035 CST)

133-5103



FLEXI CONNECTION PACK - OUTDOOR MODEL



Ref no	Description
133-5103	Flexible hoses

PACK INCLUDES:

- 2 x 28mm x 1" Flexible Hose (400mm long - not WRAS approved)

128-3601



AIR SOURCE HEAT PUMP HOSE C/W INSULATION



Ref no	Description
128-3601	1" x 28mm ASHP Hose c/w insulation - Straight
128-3602	1" x 28mm ASHP Hose c/w insulation - Angled

PACK INCLUDES:

- A pair of 28mm ASHP Hose c/w insulation

NEW

HEAT PUMPS - ACCESSORIES

INTERMEDIATE VESSELS



Ref. no	Cap (L)	Connection (inches)	Max pressure
PV6I	6L	¾" M BSP	10 bar
PV12I	12L	¾" M BSP	10 bar
PV20I	20L	¾" M BSP	10 bar
PV40I	40L	1" M BSP	10 bar
PV60I	60L	1" M BSP	10 bar
PV200I	200L	DN40 Flanged	10 bar
PV300I	300L	DN40 Flanged	10 bar
PV350I	350L	DN40 Flanged	10 bar



PV12I

NEW

SPECIFICATION

- Body: Carbon Steel, Epoxy Coated
- Max Working Temperature: 110°C

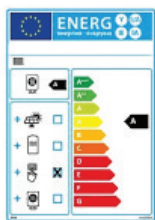


Find out more
about Heat Pump
Accessories here



HEAT PUMPS - BUFFER TANKS

569012



SERIES 569 - WALL MOUNTED BUFFER TANK FOR HEAT PUMP



Ref. no	Cap (L)	Connection (inches)	Energy Class	Max pressure	Weight Dry (kg)
569008	8	1"	B	4 bar	6.5
569012	12	1"	B	4 bar	7.5
569025	25	1"	B	4 bar	11
569050	50	1"	B	4 bar	16
569080	80	1 1/4"	C	4 bar	18
569100	100	1 1/4"	C	4 bar	24

Buffers either for hot or cold water have two main functions: they work both as hydraulic separator and buffer tank. The hydraulic separator makes the heat pump flow rates and terminals flow rates unconnected. The buffer function reduces the heat pump on/off switchings.

SPECIFICATION

- Max working pressure: 4 bar
- Temperature range: -10°C - 95°C
- Connection: 8-50 litre - 1", 80-100 litre - 1 1/4"
- Max percentage of glycol: 30%

502050



ACCESSORIES FOR SERIES 569 BUFFER TANK



Ref no	Size	Connections	Pressure	Max Temp	Description	Box	Weight
502050	3/4"	M BSP	Discharge 2.5 bar	120°C	MINICAL® w/hygroscopic cap	50	2400
502060	1"	M BSP	Discharge 2.5 bar	120°C	MINICAL® w/hygroscopic cap	50	2400

SPECIFICATION

- Automatic air vent
- In hot-stamped brass
- With hygroscopic safety cap
- Max. discharge pressure: 2.5 bar
- Max. working temperature: 120°C
- Max. working pressure: 10 bar

BV1000E



NEW

SERIES BV - BUFFER TANK FOR HEAT PUMPS



Ref. no	Cap (L)	Connection (inches)	Energy Class	Max pressure
BV500C	500	1 1/2", 1/2" F BSP	N/A	6 bar
BV800E	800	1 1/2", 1/2" F BSP	C	6 bar
BV1000E	1000	1 1/2", 1/2" F BSP	C	6 bar
BV1500E	1500	1 1/2", 1/2" F BSP	C	6 bar
BV2000E	2000	1 1/2", 1/2" F BSP	C	6 bar
BV3000E	3000	2", 1", 1/2" F BSP	N/A	6 bar
BV5000E	5000	2", 1/2" F BSP	N/A	6 bar

SPECIFICATION

- Max Working Temperature: 99°C
- Body: Mild Steel
- Finish: Grey Insulation
- Gauge: No



BVS2



NEW

ACCESSORIES FOR BV SERIES BUFFER TANK



Ref no	Description
BVS1	1 1/2" M BSP 200-400mm S/Steel Extensible Hose Kit
BVS2	Thermometer for Buffer
BVS3 CST	Thermometer for Buffer

HEAT PUMPS - BUFFER TANKS

SERIES 548 - WALL MOUNTED BUFFER TANKS



Ref. no	Cap (L)	Connection (inches)	Max pressure	Weight Dry (Kg)
548515	15	1" F	4 bar	11
548520	20	1" F	4 bar	12
548525	25	1" F	4 bar	13.5
548530	30	1" F	4 bar	14.5
548550	50	1 1/4" F	4 bar	17



548515

SPECIFICATION

- Working temperature range: - 10 - 95°C (without the formation of ice)
- Max working pressure: 4 bar
- Finish: PPE Insulation
- Max. percentage of glycol: 30%
- Front probe holder connection 1/4" F
- Body: Stainless Steel

NEW

SERIES 548 - WALL MOUNTED BUFFER TANKS FOR HYBRID SYSTEMS



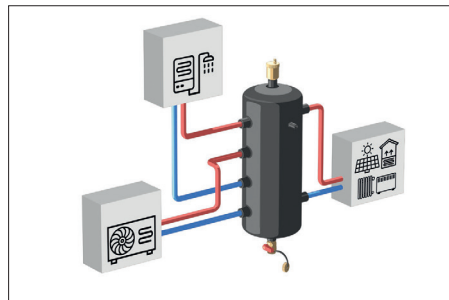
Ref. no	Cap (L)	Connection (inches)	Max pressure	Weight Dry (Kg)
548551	50	1 1/4" F	4 bar	17



548551

SPECIFICATION

- Working temperature range: - 10 - 95°C (without the formation of ice)
- Max working pressure: 4 bar
- Finish: PPE Insulation
- Max. percentage of glycol: 30%
- Front probe holder connection 1/4" F
- Body: Stainless Steel



NEW

ACCESSORIES FOR SERIES 548 WALL MOUNTED BUFFER TANKS



Ref no	Description	
502067	1" M Auto Air Vent c/w Hygroscopic Cap	50

SPECIFICATION

- Finish: Brass
- Discharge pressure 2.5 bar
- Max temp 120°C



NEW



502067

HEAT PUMPS – ANTI-FREEZE PROTECTION

108301



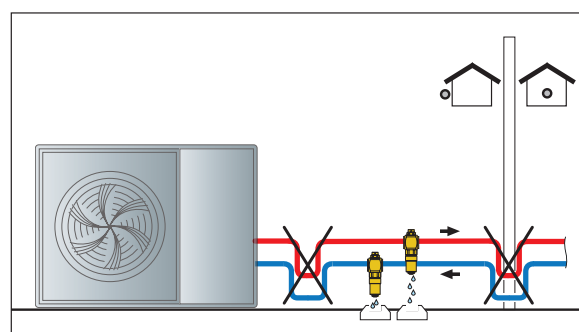
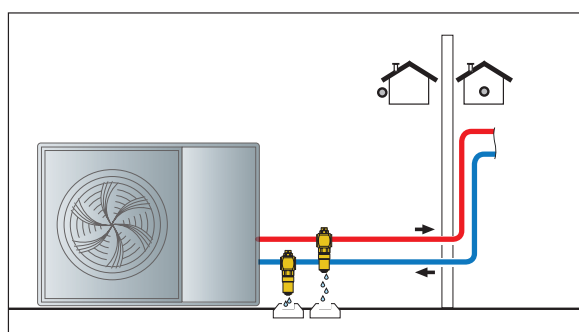
SERIES 108 - iStop® ANTI-FREEZE VALVE



Ref no	Size	Body	
108601	1"	Brass	25
108701	1 ¼"	Brass	20
108801	1 ½"	Brass	20
108301	28mm	Brass	25

SPECIFICATION

- Max. working pressure: 5 bar
- Temperature range: 0–65 °C
- Ambient temperature range: -30–60 °C
- Opening temperature: 3 °C
- Closing temperature: 4 °C



108611



SERIES 108 - iStop® ANTI-FREEZE VALVE C/W AIR SENSOR



Ref no	Size	Body	
108611	1"	Brass	25
108711	1 ¼"	Brass	20

SPECIFICATION

- Max. working pressure: 5 bar
- Temperature range: 0–65 °C
- Ambient temperature range: -30–60 °C
- Opening temperature: 3°C
- Closing temperature: 4°C
- Anti freeze function when external air temperature is below 5°C

108622



SERIES 108 - iStop® PLUS

Ref no	Size	Body
108202	22mm	Brass
108302	28mm	Brass
108322	28mm	Brass
108602	1"	Brass
108622	1"	Brass
108702	1 ¼"	Brass
108802	1 ½"	Brass
F0002130	Fluide Drain Cartridge	
F0002131	Vacuume Breaker Cartridge	

NEW

PCT
INTERNATIONAL
APPLICATION
PENDING

FULL FLOW DIFFERENTIAL BYPASS VALVES

SERIES 518 - ECOPAS FULL FLOW DIFFERENTIAL BYPASS VALVE



Ref no	Size	Connections	Body	Delta P Range	Temp	
518002	22mm	Compression	Angled	Adjustment range 10 - 60 kPa	Max 100°C	25
518015	¾" x ¾"	M x M BSP	Straight	Adjustment range 10 - 60 kPa	Max 100°C	25
518500	¾"	F x M BSP	Angled	Adjustment range 10 - 60 kPa	Max 100°C	50

Valves for use on heating systems where control is by zone or thermostatic radiator valves. Fitted between flow and return permitting circulation through boiler and helps prevent unnecessary cycling of boiler.

SPECIFICATION

- Temperature setting range: 0 - 100°C
- Max working pressure: 10 bar
- Medium: water, glycol solutions
- Max percentage of glycol: 30%



518500

NEW

SERIES 519 - ECOPAS FULL FLOW DIFFERENTIAL BYPASS VALVE



Ref no	Size	Connections	Body	Delta P Range	Temp	
519500	¾" x ¾"	F x M BSP	Angled	Adjustment range 10 - 60 kPa	Max 110°C	50
519700	1 ¼" x 1 ¼"	F x M BSP	Angled	Adjustment range 10 - 60 kPa	Max 110°C	10
519504	¾" x ¾"	F x M BSP	Angled	Adjustment range 100 - 400 kPa	Max 110°C	50
519703	1 ¼" x 1 ¼"	F x M BSP	Angled	Adjustment range 50-250 kPa	Max 110°C	10
519002	22mm x 22mm	Compression x Compression	Angled	Adjustment range 10 - 60 kPa	Max 110°C	50

Valves for use on heating systems where control is by zone or thermostatic radiator valves. Fitted between flow and return permitting circulation through boiler and helps prevent unnecessary cycling of boiler.

SPECIFICATION

- Temperature setting range: 0 - 110°C
- Max working pressure: 10 bar
- Medium: water, glycol solutions
- Max percentage of glycol: 30%



519002

577500



CALEFFI XF

MULTIFUNCTION DEVICE WITH DIRT SEPARATOR AND STRAINER

The CALEFFI XF dirt separator filter separates the impurities present in the system up to dimensions of 160 µm. Its large filtering surface minimises the problem of mesh clogging.

The system water is treated in three distinct steps: (1) a first separation mesh, (2) a central magnet and (3) an outlet filter.

CALEFFI XF allows continuous protection of the generator and devices from impurities that form in the hydraulic circuit. It can be oriented for installations on horizontal and vertical pipes.

No shut-off valves are required for maintenance of the device as it is equipped with a brush cleaning mechanism.

PCT
INTERNATIONAL
APPLICATION
PENDING

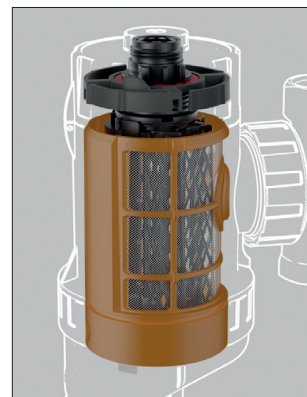
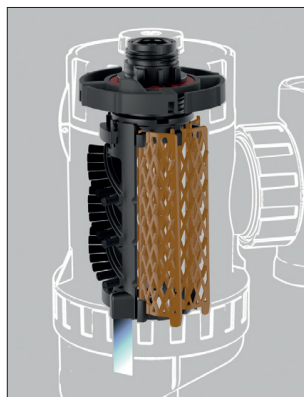
Ref no	Size
577200	Ø 22mm
577300	Ø 28mm
577500	¾"
577600	1"
577700	1 ¼"
CBN577500	Preformed Insulation for: 577200/300/500/600/700

SPECIFICATION

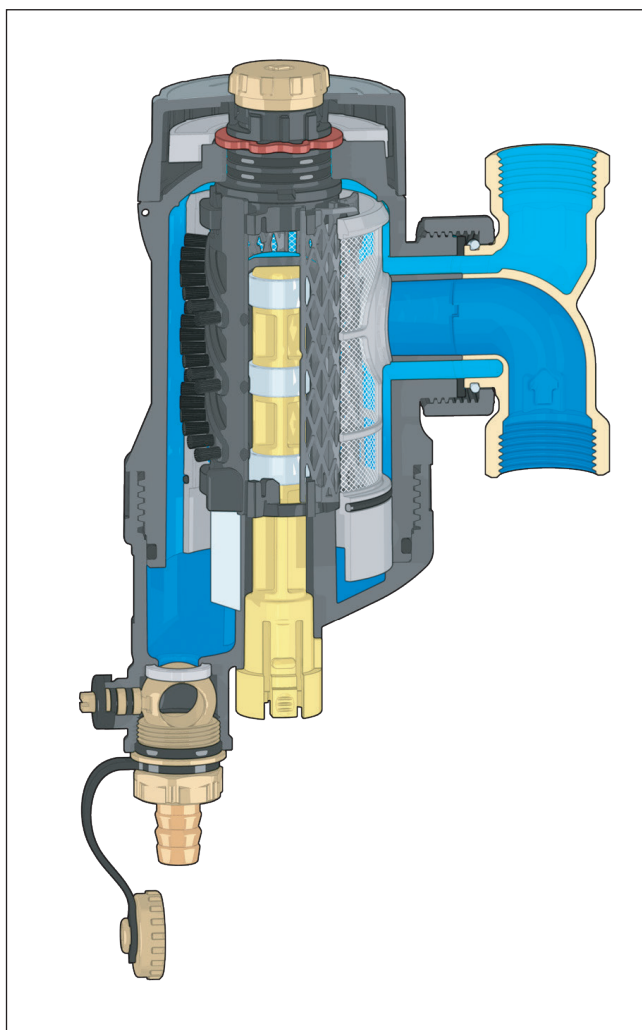
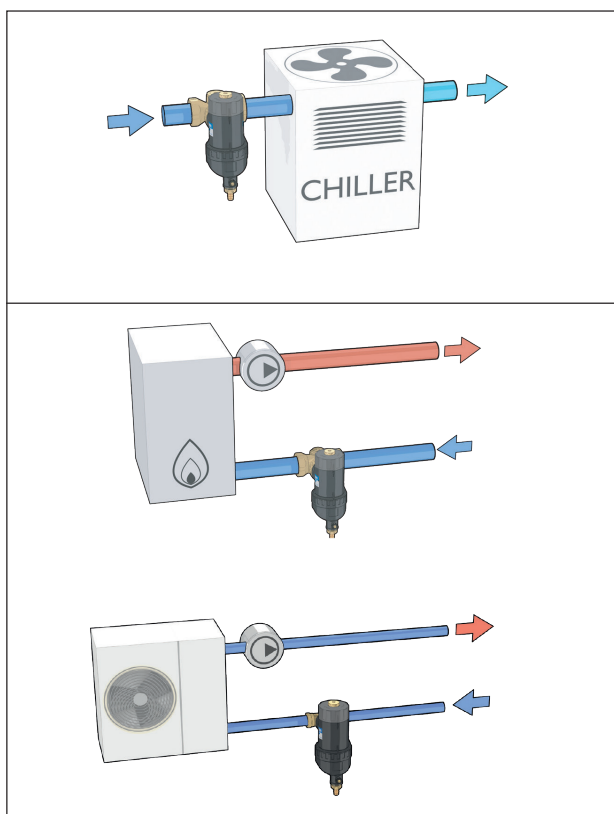
- Medium: water glycol solutions
- Max percentage of glycol: 30%
- Max working pressure: 3 bar
- Temperature range: 5 - 90°C
- Vertical/Horizontal connection
- Polyamide 66 body



Available
with preformed
insulation



Application diagrams of CALEFFI XF



HEAT PUMPS - CALEFFI XF WITH BYPASS

577800



CALEFFI XF WITH BYPASS MULTIFUNCTION DEVICE WITH DIRT SEPARATOR AND STRAINER

Sizes DN 40 (code 577800, 1 1/2") and DN 50 (code 577900, 2") are equipped with a by-pass to restrict the flow rate passing through the device and thereby increase the Kv value.

We recommend 100% filtration during commissioning and for the first few weeks of system operation. Then, during the "constant" phase, the device can be set to operate with by-pass to achieve a higher Kv.

PCT
INTERNATIONAL
APPLICATION
PENDING

SPECIFICATION

- Working Temperature Range: 0-90°C
- Connection: F BSP
- Max working pressure: 3 bar
- Body: Technopolymer
- Finish: Technopolymer
- Max. percentage of glycol: 30%
- Vertical/Horizontal connection

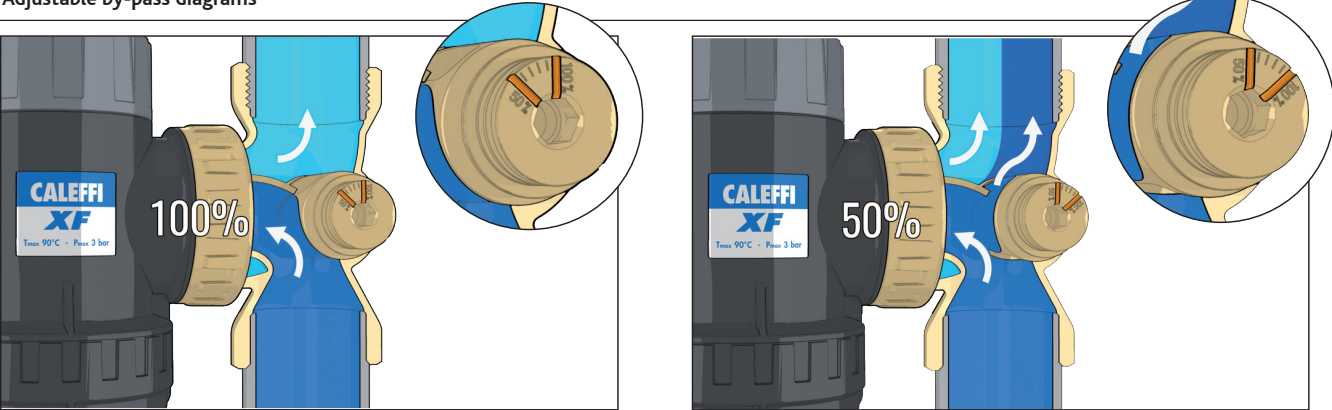


Available
with preformed
insulation

NEW

Ref no	Size
577800	1 1/2"
577900	2"
CBN577800	Insulation for: 577800/900

Adjustable by-pass diagrams



Find out more
about the
CALEFFI XF here



545375

5453 SERIES - DIRTMAG® PLUS MULTIFUNCTION DEVICE WITH DIRT SEPARATOR AND STRAINER



Specific for the complete cleaning of the hydraulic circuit, to protect continuously generator and components.

Technopolymer body.

Dirt separator with technopolymer internal element, **with magnet.**

Two inspectable strainers with stainless steel mesh: 1 for initial cleaning (blue colour) already installed, 1 for maintenance (grey colour) in package.

Shut-off valves with nuts, brass body.

Female connections and Ø 22 and Ø 28 mm with compression ends. Adjustable for horizontal, vertical or 45° pipes.

Drain cock with hose connection.

Max. working pressure: 3 bar.

Temperature range: 0 - 90 °C.

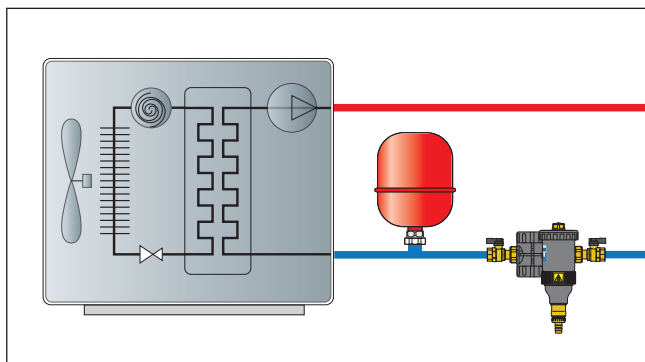
PCT
INTERNATIONAL
APPLICATION
PENDING

Ref no	Size
545375	¾"
545376	1"
545377	1 ¼"
545372	Ø 22mm
545373	Ø 28mm

Problems caused by impurities in hydraulic circuits

The components of a heating and air conditioning system are exposed to degradation caused by the impurities contained in the system's circuit. If the impurities in the thermal medium are not removed, they can impair operation of the units or components, such as boilers or heat exchangers, especially in the commissioning stage, already from the initial passage. This latter problem must not be underestimated because boiler manufacturers will frequently reject warranty claims if their product is not adequately protected by a strainer from the time of commissioning onwards.

Application diagrams of multifunction device 5453 series



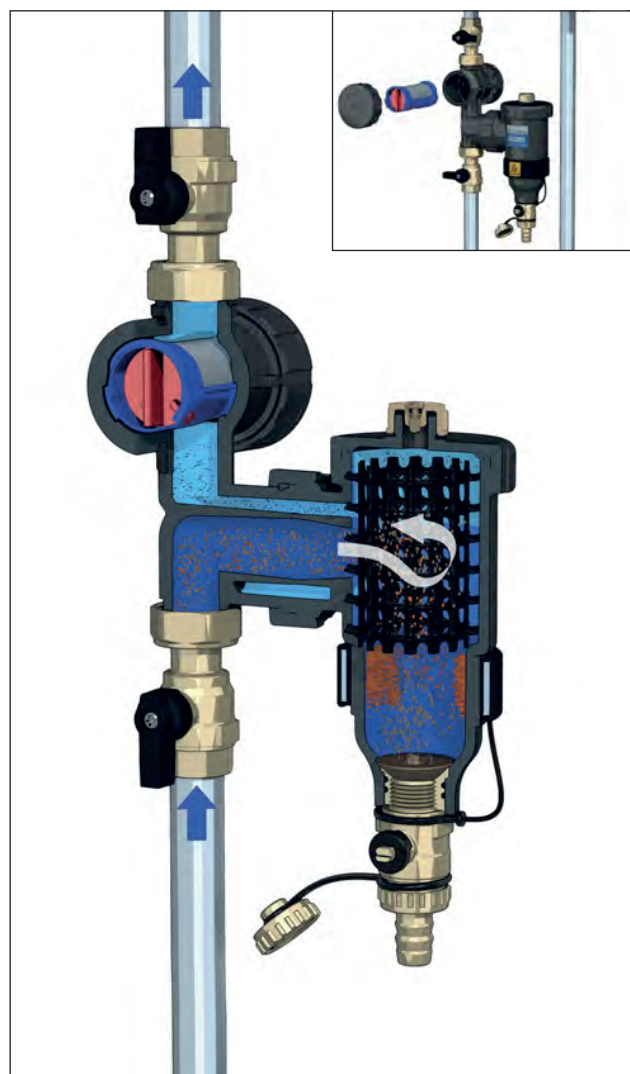
FUNCTION



The multifunction device is obtained by coupling a dirt separator and a cartridge strainer arranged in series.

The water circulating in the system flows, in sequence, first through the dirt separator and then through the cartridge strainer.

1. Elimination of particles even of small diameters (sizes of a few hundredths of a millimetre) is handled by the dirt separator due to the effect of collision of the particles with the internal element and gravity decantation of sludge in the collection chamber. This result can be obtained only after some circulations of the medium and hence during operation of the system in steady-state conditions.
2. The total elimination of particles of diameters measured in tenths of a millimetre, right from the first passage of the medium (system commissioning), is guaranteed by the mesh strainer, which mechanically intercepts impurities carried by the thermal medium.



HEAT PUMPS - BALL VALVES

INTABALL® VALVE COMPLETE WITH LOCK - BLUE LEVER HANDLE



AI-373B28L

Ref no	Size	Connections	Body	Pressure	Box	Carton
AI-373B28L	28mm	Compression	Brass	25 bar	40	960

SPECIFICATION

- Temperature range: -20°C - 99°C
- Complies with full bore BS EN 13828:2003
- Complete with lockable lever handle



INTABALL® VALVE COMPLETE WITH LOCK - RED LEVER HANDLE

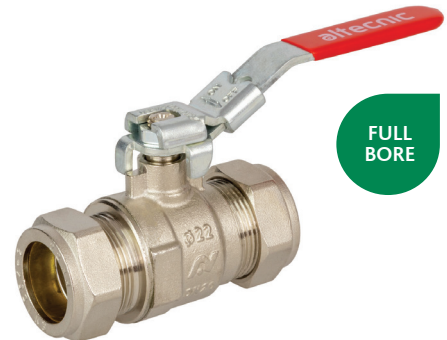


AI-373R28L

Ref no	Size	Connections	Body	Pressure	Box	Carton
AI-373R28L	28mm	Compression	Brass	25 bar	40	960

SPECIFICATION

- Temperature range: -20°C - 99°C
- Complies with full bore BS EN 13828:2003
- Complete with lockable lever handle



FILTER BALL VALVES



124-6003 CST

Ref no	Size	Connections	Body	Pressure	Box	Carton
124-6003 CST *	1/2"	F x F BSP	Brass	30 bar	84	1008
124-6004 CST	3/4"	F x F BSP	Brass	30 bar	64	768
124-6005 CST	1"	F x F BSP	Brass	30 bar	48	576
124-6006 CST	1 1/4"	F x F BSP	Brass	20 bar	16	192
124-6007 CST	1 1/2"	F x F BSP	Brass	20 bar	12	144
124-6008 CST	2"	F x F BSP	Brass	20 bar	8	96

Spare filters available see page 124

* 1/2" complies with the full bore and the other sizes exceeds the reduced bore diameter circle specified in BS EN 13547.



SPECIFICATION

- Max pressure 1/2" - 1": 30 bar
- Max pressure 1 1/4" - 2": 20 bar
- Max temperature: 140°C
- Working temp. range: -20 - 100°C
- Strainer mesh size: 500 µ - 0.5 mm
- Threaded ends: ISO 228 - 1

HEAT PUMPS - COMMISSIONING ACCESSORIES

ALT-ST0035



FILLING LOOPS



Ref no	Size	Description		
ALT-ST0035	15mm	Filling loop with built-in gauge	20	480

Used to fill sealed systems from the mains cold water.

SPECIFICATION

- Approved flexible hoses complete with check valves



132402



BALANCING VALVE WITH FLOW METER

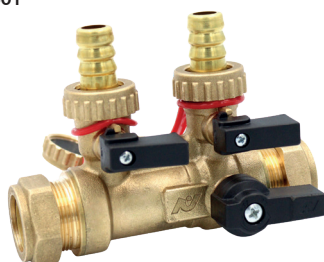


Ref no	Size	Flow rate scale	Connections	
132402	1/2"	2 - 7 L/min	F BSP	5
132512	3/4"	5 - 13 L/min	F BSP	5
132522	3/4"	7 - 28 L/min	F BSP	5
132602	1"	10 - 40 L/min	F BSP	5
132702	1 1/4"	20 - 70 L/min	F BSP	5
132802	1 1/2"	30 - 120 L/min	F BSP	5
132902	2"	50 - 200 L/min	F BSP	5

SPECIFICATION

- For adjusting and control of flows in heating, air conditioning and cooling systems. Visual flow indicator and flow adjustment.

124-1501



FILL & FLUSH VALVE



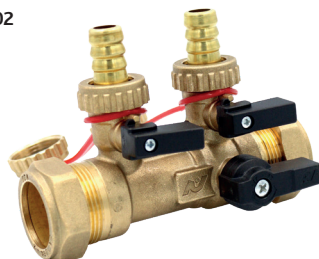
Ref no	Size	Connection	Pressure		
124-1501	22mm	Compression	10 bar	25	450
124-1502	28mm	Compression	10 bar	25	450

The Altecnic fill and flush valve is designed for use on domestic and small commercial heating systems. The combination of two ball isolating valves and one 'T' port diverting ball valve are used to fill and flush the system with cleaning chemicals or water treatment.

SPECIFICATION

- Max temperature: 85°C
- Min temperature: 2°C
- Max Pressure: 10 bar Compression ends complying with: BS EN 1252-2 for use with R250 (half hard) copper tube.

124-1502



HEAT PUMPS - SEALED SYSTEMS & EXPANSION VESSELS

ROBOKIT EXTRA® SEALED SYSTEM - NITROGEN FILLED



Ref no	Vessel (Litre)	Expansion Vessel	Filling Loop	Mounting Bracket	Safety Relief Valve w/gauge	Manifold Fitting	
CA-900008	8	Y	Y	Y	Y	Y	84
CA-900012	12	Y	Y	Y	Y	Y	60
CA-900018	18	Y	Y	Y	Y	Y	60
CA-900024	25	Y	Y	Y	Y	Y	48
CA-900035	35	Y	Y	N	Y	Y	24
CA-900050CP	50	Y	Y	N	Y	Y	24
CA-900080	80	Y	Y	N	Y	Y	18



CA-900012

CE marked UK CA

SPECIFICATION

- Reflex vessel includes Altecnic 5-year warranty
- Nitrogen filled
- Not suitable for potable water



HEATING VESSELS C/W INTEGRATED BRACKETS



Ref no	Cap (L)	Dia (Ø D mm)	Ht (Ø H mm)	Connections	Max pressure	
HV8I	8	287	163	G 1/2"	3 bar	1
HV12I	12	362	168	G 1/2"	3 bar	1
HV18I	18	362	222	G 3/4"	3 bar	1
HV25I	25	409	239	G 3/4"	3 bar	1
HV35I	35	480	240	G 3/4"	3 bar	1
HV50I	50	480	318	G 3/4"	3 bar	1
HV80I	80	634	325	G 3/4"	3 bar	1

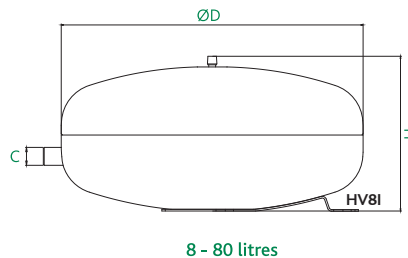


HV8I

CE marked UK CA

SPECIFICATION

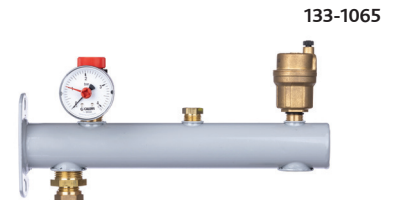
- Flat vessel for expansion on heating systems and boilers
- Max working pressure: 3 bar
- Max vessel operating temperature: 70°C



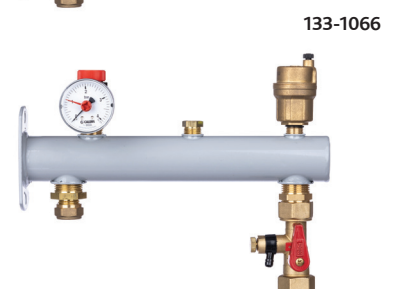
MULTI FUNCTION EXPANSION VESSEL BRACKET



Ref no	Description	
133-1065	Multifunction Fixing Bracket only	1
133-1066	Multifunction Fixing Bracket Plus	1



133-1065



133-1066

SPECIFICATION

- Suitable for connection to heating vessels 2-25L
- Space saving and easy install
- Includes automatic air vent
- Plus versions includes expansion vessel isolation and drain-off

Dirt and Air Separation

Dirt and air particles cause damage to heating and chilled water systems. By fitting a dirt and air separator you will improve the efficiency of the system and increase the life-span of the boiler and other equipment.

RANGE OVERVIEW

Model Series	Size	Domestic use	Commercial use	Filtration Type			Orientation
				Air	Dirt	Magnetic	
CALEFFI XS®	22mm	✓			✓	✓	Vertical /Horizontal
DIRTMAG MINI®	22mm	✓		✓	✓	✓	Vertical /Horizontal
DIRTMAG IQ PRIME®	22mm, 28mm, ¾" to 1 ¼"	✓	✓	✓	✓	✓	Vertical /Horizontal
DIRTMAG iQ®	22mm, 28mm	✓	✓	✓	✓	✓	Vertical /Horizontal
DIRTMAG®	¾" to 2"	✓	✓	✓ Optional	✓	✓	Horizontal
DIRTMAGPRO®	22mm, 28mm, ¾", 1" & 1 ¼"	✓	✓	✓	✓	✓	Vertical /Horizontal
DISCALDIRTMAG	22mm, 28mm, ¾", 1" & 1 ¼"	✓	✓	✓	✓	✓	Vertical /Horizontal
CALEFFI XF	22mm, 28mm, ¾", 1", 1 ¼", 1 ½" & 2"	✓	✓	✓	✓	✓	Vertical /Horizontal
DIRTMAG XL®	DN50 to DN300		✓		✓	✓	Horizontal
DISCALDIRTMAG	1 ½" to 2"		✓	✓	✓	✓	Horizontal
DISCALDIRT®	22mm, ¾" to 1", DN50 to DN150		✓	✓ Auto Air Venting	✓		Horizontal
DIRTCAL	22mm, ¾" to 2", DN50 to DN150	✓	✓	✓	✓		Horizontal
Hydraulic Separator	1" to 2", DN50 to DN300	✓	✓	✓			Vertical /Horizontal
Magnetic Hydraulic Separator	1" to 2"		✓	✓		✓	Vertical /Horizontal
DISCAL®	22mm, 28mm, ¾" to 2", DN50 - DN150	✓	✓	✓ Auto Air Venting			Vertical /Horizontal
Automatic Air Vent	15mm, ¼" to 1"	✓	✓	✓			Vertical
DISCALAIR®	½"	✓	✓	✓ Auto Air Venting			Vertical
DISCALSLIM®	22mm, ¾", 1"	✓	✓	✓			Vertical /Horizontal

DIRTMAG MINI®
114-1020

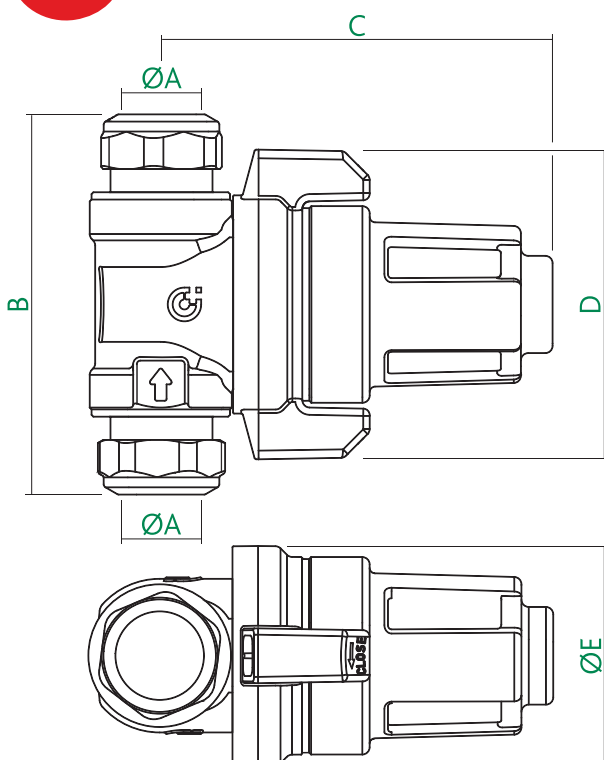


Dirt and Air
Separation

545912



NEW



CALEFFI XS®



Ref no	Size	Connections	Body	Box	Weight
545912	22mm	Compression	Brass	5	280

The CALEFFI XS® under-boiler magnetic filter mechanically separates the impurities in heating and cooling systems by means of a mesh filter, a neodymium magnet and a collection chamber for the heaviest particles. The chamber has transparent windows, allowing the user to check whether the internal elements need to be cleaned. Its very small dimensions make it suitable for all generator types.

SPECIFICATION

- Compact under boiler magnetic filter
- Glass indicators/windows allow for easy visual system health check
- Internal isolation valve designed so only water in the collection chamber is drained before cleaning the mesh, for quick and easy servicing
- Internal magnet and mesh for effective filtration
- Suitable for horizontal & vertical installation
- 0-90°C Working Temperature
- Max working pressure: 3 bar
- Max. percentage of glycol: 30%

Ref no	A	B	C	D	E	kg
545912	Ø22	104.4	107.6	85	Ø60	0.75

Find out more
about the
CALEFFI XS® here



F0001037



NEW

CALEFFI XS® FLUSHING KIT ADAPTOR



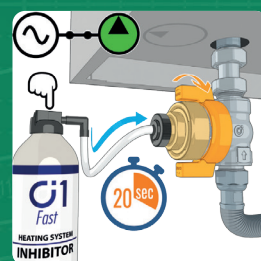
Ref no	Description
F0001037	CALEFFI XS® Flushing Kit Adaptor

Allows installers to use aerosol chemicals to dose the system through the filter.

Introducing the CALEFFI XS®

Under Boiler Magnetic Filter

NEW



- Glass indicators allow for easy visual system health check
- Internal magnet and mesh for effective filtration
- Size: 22 mm
- Internal isolation valve designed so only water in the collection chamber is drained before cleaning the mesh, for quick and easy servicing
- Vertical & horizontal installation

For more information
scan the QR code



DIRT AND AIR
SEPARATION

T: 01785 218200
E: sales@altecnic.co.uk
altecnic.co.uk

altecnic
CALEFFI group

DIRTMAG MINITM

114-1020



DIRTMAG MINI®



Ref no	Size	Insulation	Connections	Body	Box	Weight
114-1020	22mm	No	Compression ends	Polyamide 66	5	280

The **DIRTMAG MINI®** magnetic dirt separator and strainer filters, separates and captures impurities in the system thanks to the combined action of the strainer and dirt separator. Ferrous impurities are also captured inside the body, thanks to the action of a removable, internal magnet.

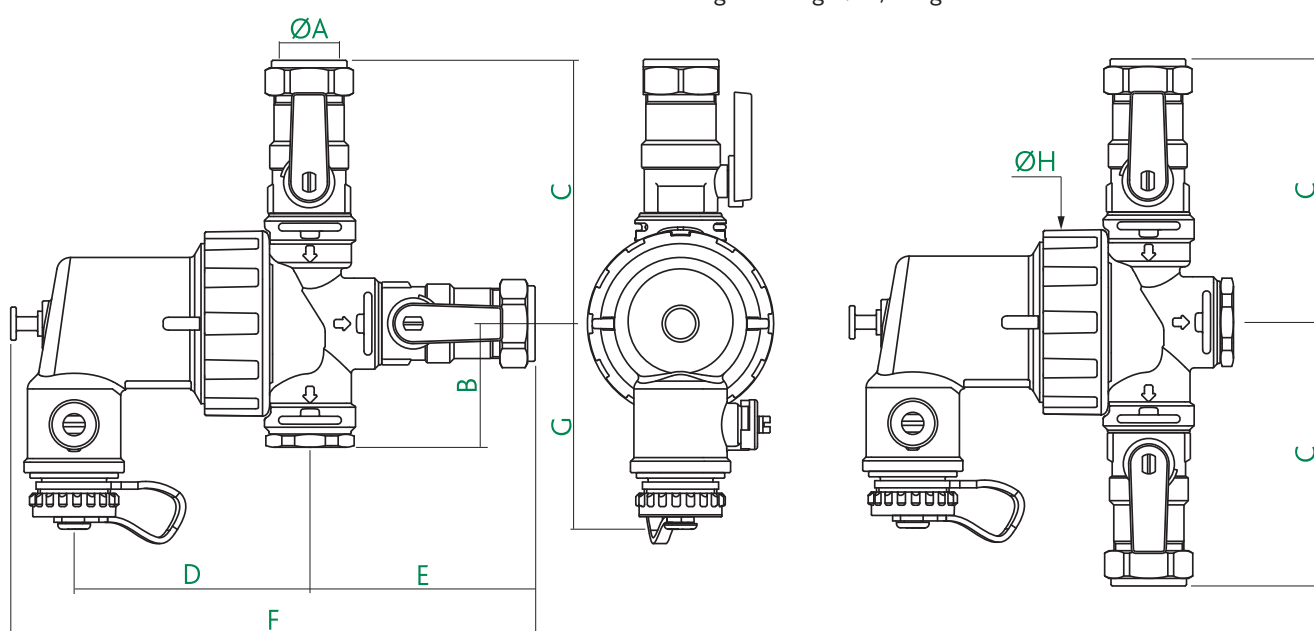
Opening the dedicated drain point drains the captured impurities. The fluid from the system is slowed down, so that the smaller particles that are not stopped by the filter separate and deposit, and are thereby removed from circulation. The special profile of the bottom allows the impurities to be captured and drained effectively.

The compression connections on the **The DIRT MAG MINI®** body are interchangeable and reversible as they have a quick-fit system with fixing clip, making it easy to install the dirt separator by turning it to the horizontal or vertical position. Thanks to the compactness of the body, the filter can be easily installed in narrow spaces under wall-mounted boilers without the need for additional accessories.

SPECIFICATION

- Medium: water glycol solution
- Max percentage of glycol: 30%
- Max working pressure: 3 bar
- Temperature range: 0 - 90°C
- Strainer mesh size: 800µm
- Magnet strength: 13,000 gauss

UP TO
15%
ENERGY SAVING



Ref no	A	B	C	D	E	F	G	H	kg
114-1020	Ø22	45	95.5	85.5	82.5	190.5	74.5	67.5	0.7

DIRTMAG MINI® - COMPLIANCE PACKS

DIRTMAG MINI® & DISCALSLIM® COMBI PACK

Ref no	Size	Connections	Body	
114-1100	22mm	Compression ends	Polyamide 66	98

SPECIFICATION

- Pack contains DIRTMAG MINI® magnetic filter and DISCALSLIM® deaerator



114-1100



Want to learn
more about
DIRTMAG MINI®?
Find out more here



DIRT AND AIR
SEPARATION

DIRTMAG IQ PRIME™

THE SMART MAGNETIC SEPARATOR PRIME

545342 LTC



DIRTMAG IQ PRIME®



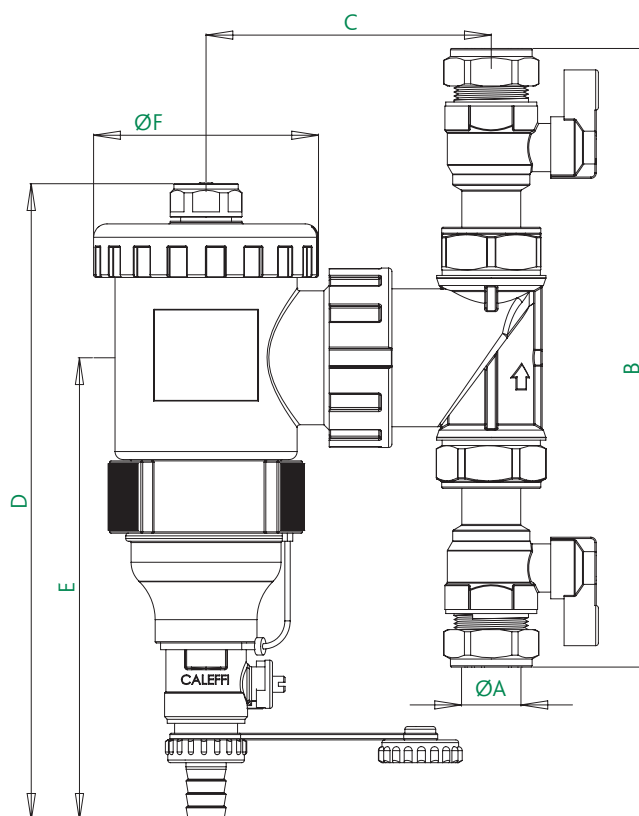
Ref no	Size	Insulation	Connections	Body	Box	Weight
545342 LTC	22mm	No	Vertical/Horizontal	Polyamide 66	5	105
545343 LTC	28mm	No	Vertical/Horizontal	Polyamide 66	5	105
545345	3/4"	No	Vertical/Horizontal	Polyamide 66	5	105
545346	1"	No	Vertical/Horizontal	Polyamide 66	5	105
545347	1 1/4"	No	Vertical/Horizontal	Polyamide 66	5	105

DIRTMAG IQ PRIME® - offers triple separation of magnetic, non-magnetic debris and system air releases, whilst the powerful external magnetic belt, full bore isolation valves and drain off valve enables ease of installation and fast and effective system servicing. Suitable for horizontal or vertical applications each filter is supplied with a unique metal spanner ensuring correct and incident free installation.

SPECIFICATION

- Medium: water glycol solution
- Max percentage of glycol: 30%
- Max working pressure: 3 bar
- Temperature range: 0 - 90°C
- Particle separation rating down to 5µm

Ref no	A	B	C	D	E	F
545342 LTC	Ø22	224	106.5	238	172.5	84
545343 LTC	Ø28	232	106.5	238	172.5	84



DIRTMAG IQ PRIME® - COMPLIANCE PACKS

DIRTMAG IQ PRIME® COMPLIANCE PACK A

Ref no	Size	Connections	Body		
114-1001	22mm	Compression	Polyamide 66	5	80
114-1011	28mm	Compression	Polyamide 66	5	50

SPECIFICATION

- Pack A - DIRTMAG IQ PRIME® magnetic filter, iQ3 500ml Benchmark approved system cleaner, iQ1 500ml Benchmark and Buildcert approved system inhibitor for treating systems up to 100 litre (approx. 10 radiators).
- DIRTMAG IQ PRIME® full bore isolation valves, full bore bottom entry discharge valve and dosing facility via a ½" air vent enables unrivalled ease of system commissioning.



DIRTMAG IQ PRIME® COMPLIANCE PACK B

Ref no	Size	Connections	Body		
114-1002	22mm	Compression	Polyamide 66	5	50
114-1012	28mm	Compression	Polyamide 66	5	50

SPECIFICATION

- Pack B - Content as Pack A including DIRTMAG IQ PRIME®, Cleaner and Inhibitor plus:
- Fully WRAS approved and Part L Building Regulations compliant filling loop with metal handles and two blanking caps.



DIRTMAG IQ PRIME® COMPLIANCE PACK C

Ref no	Size	Connections	Body		
114-1003	22mm	Compression	Polyamide 66	5	50
114-1013	28mm	Compression	Polyamide 66	5	50

SPECIFICATION

- Pack C - Content as Pack A including DIRTMAG IQ PRIME®, Cleaner and Inhibitor plus:
- Fully WRAS approved 15mm electrolytic scale reducer for Part L compliance where water hardness exceeds 200ppm.



DIRTMAG IQ PRIME® COMPLIANCE PACK D

Ref no	Size	Connections	Body		
114-1004	22mm	Compression	Polyamide 66	5	50
114-1014	28mm	Compression	Polyamide 66	5	50

SPECIFICATION

- Pack D - Content as Pack A including DIRTMAG IQ PRIME®, Cleaner and Inhibitor plus:
- Fully WRAS approved system filling loop with metal handles and two blanking caps
- 15mm WRAS approved electrolytic scale reducer ensures ultimate protection and compliance to Part L where water hardness exceeds 200ppm.



DIRTMAG iQTM

THE SMART MAGNETIC SEPARATOR

545302



DIRTMAG iQ®



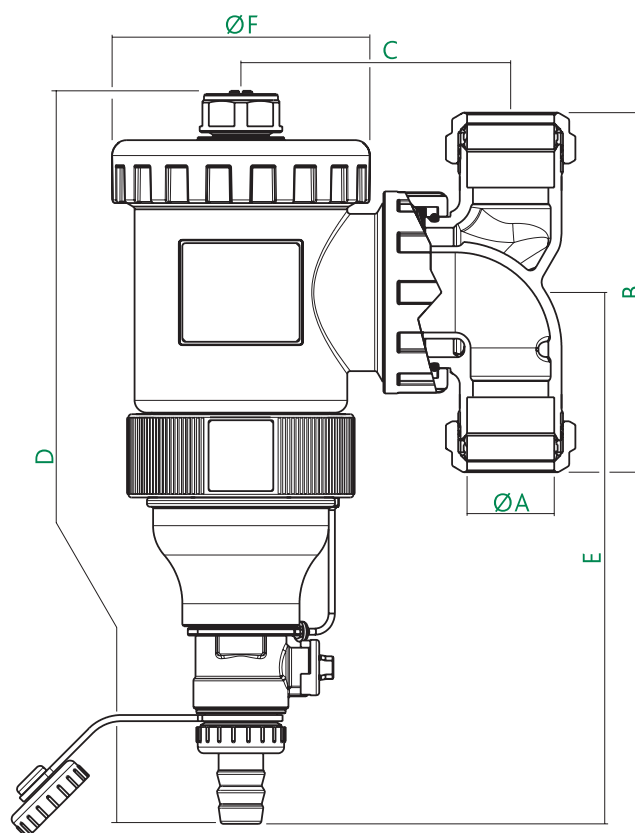
Ref no	Size	Insulation	Connections	Body		
545302	22mm	No	Vertical/Horizontal	Polyamide 66	5	105
545303	28mm	No	Vertical/Horizontal	Polyamide 66	5	105

SPECIFICATION

- Medium: water glycol solution
- Max percentage of glycol: 30%
- Max working pressure: 3 bar
- Temperature range: 0 - 90°C
- Particle separation rating down to 5µm

DIMENSIONS

Ref no	A	B	C	D	E	F	kg
545302	22	115	87.5	238	173	84	2.15
545303	28	117	87.5	238	173	84	2.15



DIRTMAG® (HORIZONTAL)

DIRTMAG® (HORIZONTAL)



Ref no	Size	Insulation	Connections	Body		
546305	¾"	No	F x F BSP	Brass	6	108
546306	1"	No	F x F BSP	Brass	6	108
546307	1 ¼"	No	F x F BSP	Brass	5	90
546308	1 ½"	No	F x F BSP	Brass	5	90
546309	2"	No	F x F BSP	Brass	5	90



546307

SPECIFICATION

- Medium: water glycol solution
- Max percentage of glycol: 50%
- Max working pressure: 10 bar
- Temperature range: 0 - 110°C
- Particle separation rating down to 5µm

Optional
Air vent code:
502040



Discover our
IDRONICS UK
magazine



DIRTMAGPRO® SERIES

545705



DIRTMAGPRO®



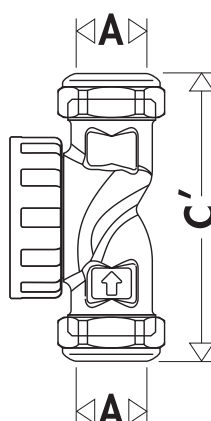
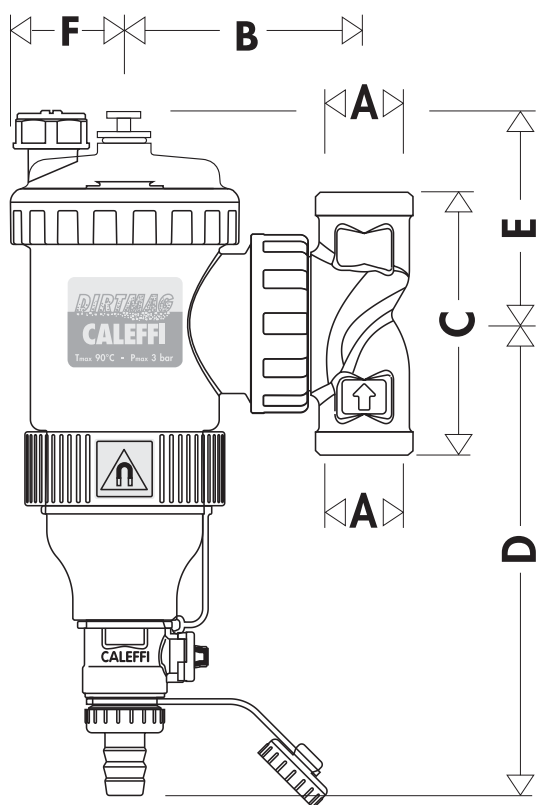
Ref no	Size	Connections	Body		
545702	22mm	Vertical/Horizontal	Polyamide 66	5	105
545703	28mm	Vertical/Horizontal	Polyamide 66	5	105
545705	¾"	Vertical/Horizontal	Polyamide 66	5	105
545706	1"	Vertical/Horizontal	Polyamide 66	5	105
545707	1 ¼"	Vertical/Horizontal	Polyamide 66	5	105

SPECIFICATION

- Medium: water glycol solution
- Max percentage of glycol: 30%
- Max working pressure: 3 bar
- Temperature range: 0 - 90°C
- Insulation shell available separately

UP TO
15%
ENERGY SAVING

DOUBLE
MAGNET



DIMENSIONS

Ref no	DN	A	B	C	C'	D	E	F	kg
545702	20	Ø22	87,5	-	115	172,5	76,6	42	1,5
545703	25	Ø28	87,5	-	115	172,5	76,6	42	1,5
545705	20	¾"	87,5	96	-	172,5	76,6	42	1,5
545706	25	1"	87,5	110	-	172,5	76,6	42	1,5
545707	32	1 ¼"	87,5	131	-	172,5	76,6	42	1,75

DIRT AND AIR SEPARATION - DISCALDIRTMAG

DISCALDIRTMAG



Ref no	Size	Connections	Body		
546402	22mm	Compression	Polyamide 66	5	105
546403	28mm	Compression	Polyamide 66	5	105
546405	¾"	F x F BSP	Polyamide 66	5	105
546406	1"	F x F BSP	Polyamide 66	5	105
546407 *	1 ¼"	F x F BSP	Polyamide 66	5	105

SPECIFICATION

- Medium: water glycol solution
- Max percentage of glycol: 30%
- Max working pressure: 3 bar
- Temperature range: 0 - 90°C
- Particle separation rating down to 5µm
- Insulation shell available separately

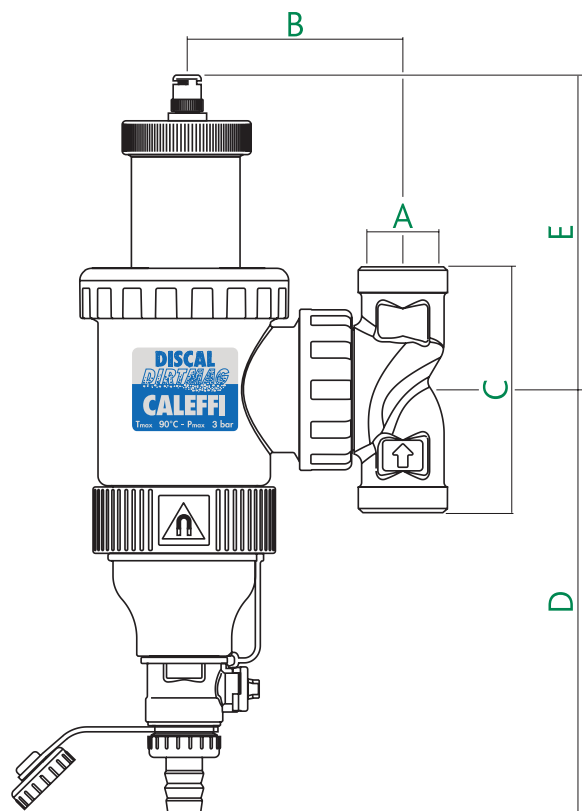
NEW*

546403



**AUTO
AIR VENT**

MAGNETIC



DIMENSIONS

Ref no	Size	A	B	C	D	E	kg
546402	DN20	Ø22	87.5	115	172.5	125	1.3
546403	DN25	Ø28	87.5	116.6	172.5	125	1.3
546405	DN20	¾"	87.5	96	172.5	125	1.3
546406	DN25	1"	87.5	110	172.5	125	1.3
546407	DN32	1 ¼"	87.5	131	172.5	125	1.3

DIRT AND AIR
SEPARATION

DIRT AND AIR SEPARATION - CALEFFI XF

577500



CALEFFI XF



Ref no	Size	Connections	Body
577200	Ø 22mm	Vertical/Horizontal	Polyamide 66
577300	Ø 28mm	Vertical/Horizontal	Polyamide 66
577500	¾"	Vertical/Horizontal	Polyamide 66
577600	1"	Vertical/Horizontal	Polyamide 66
577700	1 ¼"	Vertical/Horizontal	Polyamide 66
CBN577500	Insulation for: 577200/300/500/600/700		

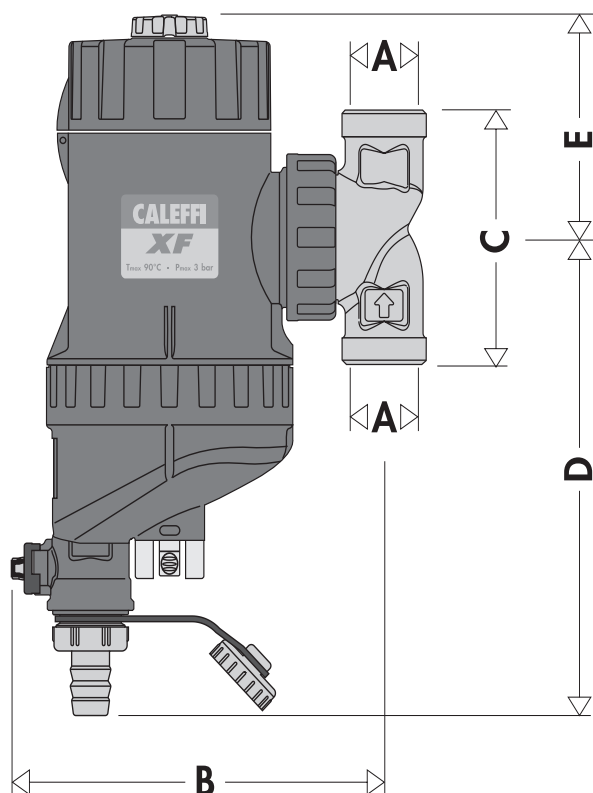
SPECIFICATION

- Medium: water glycol solutions
- Max percentage of glycol: 30%
- Max working pressure: 3 bar
- Temperature range: 5 - 90°C

Ideal for
use with
heat pumps

Available
with preformed
insulation

CBN577500



DIMENSIONS

Ref no	Size	A	B	C	D	E	kg
577200	DN20	Ø22	158	115	184	87	1.5
577300	DN25	Ø28	158	117	184	87	1.5
577500	DN20	¾"	158	96	184	87	1.5
577600	DN25	1"	158	110	184	87	1.5
577700	DN32	1 ¼"	158	131	184	87	1.6

DIRT AND AIR SEPARATION - CALEFFI XF WITH BYPASS

CALEFFI XF WITH BYPASS



Ref no	Size	Connections	Body
577800	1 1/2"	F BSP	Technopolymer
577900	2"	F BSP	Technopolymer
CBN577800	Insulation for: 577800/900		

SPECIFICATION

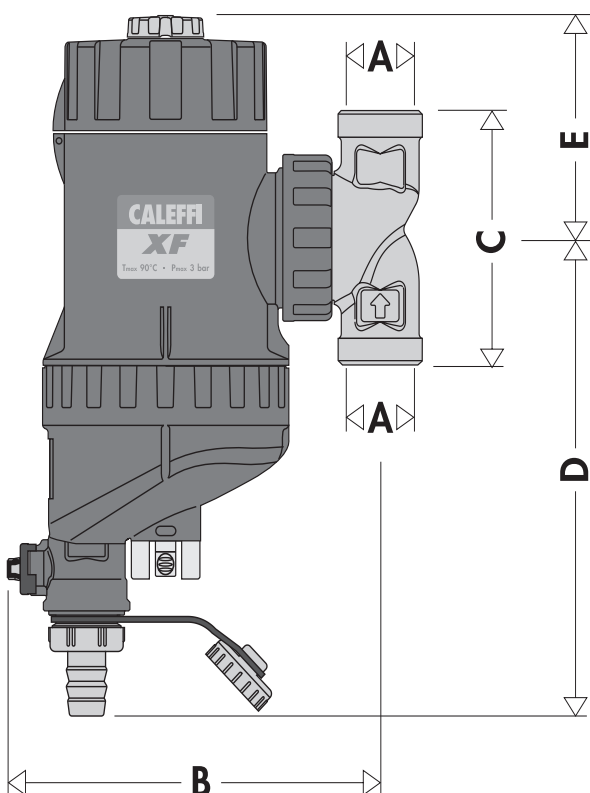
- Working Temperature Range: 0-90°C
- Max working pressure: 3 bar
- Finish: Technopolymer
- Max. percentage of glycol: 30%
- Vertical/Horizontal connection

NEW

Ideal for use with heat pumps

Available with preformed insulation

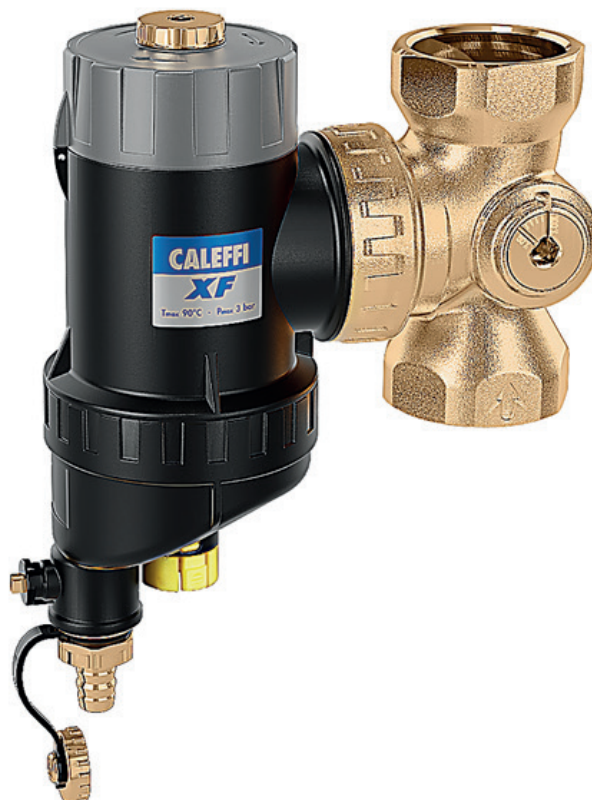
CBN577800



DIMENSIONS

Ref no	Size	A	B	C	D	E	kg
577800	DN40	1 1/2"	186	140	184	87	3.3
577900	DN50	2"	186	140	184	87	3.0

577800



DIRT AND AIR SEPARATION - DIRT AND AIR

546650



546620



DIRTMAG XL®



Ref no	Size	Insulation	Connections	Body
546650	DN50	Yes	Flanged PN16	Epoxy resin coated steel
546660	DN65	Yes	Flanged PN16	Epoxy resin coated steel
546680	DN80	Yes	Flanged PN16	Epoxy resin coated steel
546610	DN100	Yes	Flanged PN16	Epoxy resin coated steel
546612	DN125	Yes	Flanged PN16	Epoxy resin coated steel
546615	DN150	Yes	Flanged PN16	Epoxy resin coated steel
546620	DN200	No	Flanged PN16	Epoxy resin coated steel
546625	DN250	No	Flanged PN16	Epoxy resin coated steel
546630	DN300	No	Flanged PN16	Epoxy resin coated steel

501500 to be fitted to DIRTMAG® for air venting.

SPECIFICATION

- Dirt separator with magnet to be coupled with flat counterflanges EN 1092-1
- Max percentage of glycol: 50%
- Max working pressure: 10 bar
- Temperature range: 0 to 100°C
- Temperature probe connection: ½" F (DN200-DN300)
- Particle separation rating down to 5µm

546118



DISCALDIRTMAG DE-AERATOR - DIRT SEPARATORS



Ref no	Size	Insulation	Connections	Body	10	100
546118	1 ½"	Yes	F x F BSP (Union Type)	Epoxy resin coated steel	10	100
546119	2"	Yes	F x F BSP (Union Type)	Epoxy resin coated steel	10	100

SPECIFICATION

- Medium: water glycol solution
- Max percentage of glycol: 50%
- Max working pressure: 10 bar
- Temperature range: 0 - 100°C
- Particle separation rating down to 5µm

DIRT AND AIR SEPARATION - DIRT AND AIR

DISCALDIRT® DIRT AND AIR SEPARATORS



Ref no	Size	Insulation	Connections	Body
546002	22mm	No	Compression	Brass
546005	¾"	No	F x F BSP	Brass
546006	1"	No	F x F BSP	Brass



546002

SPECIFICATION

- Medium: water glycol solution
- Max percentage of glycol: 50%
- Max working pressure: 10 bar
- Temperature range: 0 - 110°C
- Particle separation rating down to 5µm

DISCALDIRT® AND AIR SEPARATORS (WITH INSULATION)



Ref no	Size	Insulation	Connections	Body
546052	DN50	Yes	Flanged PN16	Epoxy resin coated steel
546062	DN65	Yes	Flanged PN16	Epoxy resin coated steel
546082	DN80	Yes	Flanged PN16	Epoxy resin coated steel
546102	DN100	Yes	Flanged PN16	Epoxy resin coated steel
546122	DN125	Yes	Flanged PN16	Epoxy resin coated steel
546152	DN150	Yes	Flanged PN16	Epoxy resin coated steel



546062

The DISCALDIRT® range of dirt and air separators are designed for use on heating and air conditioning systems to provide an efficient method of dirt and air removal.

SPECIFICATION

- Range of dirt and air separators for use in commercial applications
- Max working pressure: 10 bar
- Max discharge pressure: 10 bar
- Temperature range: 0 - 110°C
- Max percentage of glycol: 50%

DIRT AND AIR SEPARATION - DIRT AND AIR



546205



Optional
Air vent code:
502040

546550



Optional
Air vent code:
501500

DIRTCAL BRASS DIRT SEPARATORS

Ref no	Size	Insulation	Connections	Body	
546205	¾"	No	F x F BSP	Brass	5
546206	1"	No	F x F BSP	Brass	5
546207	1 ¼"	No	F x F BSP	Brass	5
546208	1 ½"	No	F x F BSP	Brass	2
546209	2"	No	F x F BSP	Brass	2
546905	¾"	No	F x F BSP	Brass	5
546906	1"	No	F x F BSP	Brass	5
546902	22mm	No	Compression	Brass	10
546550	DN50	Yes	Flanged PN16	Epoxy resin coated steel	1
546560	DN65	Yes	Flanged PN16	Epoxy resin coated steel	1
546580	DN80	Yes	Flanged PN16	Epoxy resin coated steel	1
546510	DN100	Yes	Flanged PN16	Epoxy resin coated steel	1
546512	DN125	Yes	Flanged PN16	Epoxy resin coated steel	1
546515	DN150	Yes	Flanged PN16	Epoxy resin coated steel	1

SPECIFICATION

- The DIRTAL range of dirt separators are designed for use on heating and air conditioning systems to provide an efficient method of dirt removal
- Max working pressure: 10 bar

- Temperature Range:
0 - 110°C (THREADED),
0 - 105°C (DN50 - DN100),
0 - 100°C (DN125 - DN150)

- Max percentage of glycol: 50%

Insulation
available for
5462 SERIES

DIRT AND AIR SEPARATION - HYDRAULIC SEPARATORS

HYDRAULIC SEPARATOR



Ref no	Size	Insulation	Connections	Body
548006	1"	Yes	F x F BSP (Union Type)	Epoxy resin coated steel
548007	1 ¼"	Yes	F x F BSP (Union Type)	Epoxy resin coated steel
548008	1 ½"	Yes	F x F BSP (Union Type)	Epoxy resin coated steel
548009	2"	Yes	F x F BSP (Union Type)	Epoxy resin coated steel
548052	DN50	Yes	Flanged PN16	Epoxy resin coated steel
548062	DN65	Yes	Flanged PN16	Epoxy resin coated steel
548082	DN80	Yes	Flanged PN16	Epoxy resin coated steel
548102	DN100	Yes	Flanged PN16	Epoxy resin coated steel
548122	DN125	Yes	Flanged PN16	Epoxy resin coated steel
548152	DN150	Yes	Flanged PN16	Epoxy resin coated steel
548200	DN200	No	Flanged PN10	Epoxy resin coated steel
548250	DN250	No	Flanged PN10	Epoxy resin coated steel
548300	DN300	No	Flanged PN10	Epoxy resin coated steel

SPECIFICATION - 548 SERIES SCREWED IRON

- Hydraulic separator. Connections 1" F (from 1" - 2") with union
- Epoxy resin coated steel body
- Medium water and non-hazardous glycol solutions excluded from the guidelines of EC directive 67/548
- Max percentage of glycol: 30%
- Max working pressure: 10 bar
- Temperature range: 0 - 100°C
- Temperature probe connection: ½" F

SPECIFICATION - 548 SERIES FLANGE

- Hydraulic separator. Flanged connections DN 50 (from DN 50 - DN 150) PN 16, DN 200 (from DN 200 - DN 300) PN 10, for coupling with counter flanges EN 1092-1. Epoxy resin coated steel body.
- Medium water and non-hazardous glycol solutions excluded from the guidelines of EC directive 67/548.
- Max percentage of glycol: 30%
- Max working pressure: 10 bar
- Temperature range: 0 - 110°C
- Temperature probe connection: ½" F



548009



548102



548200

DIRT AND AIR SEPARATION - HYDRAULIC SEPARATORS

549506



MAGNETIC HYDRAULIC SEPARATOR



Ref no	Size	Insulation	Connections	Body
549506	1"	Yes	F x F BSP (Union Type)	Epoxy resin coated steel
549507	1 ¼"	Yes	F x F BSP (Union Type)	Epoxy resin coated steel
549508	1 ½"	Yes	F x F BSP (Union Type)	Epoxy resin coated steel
549509	2"	Yes	F x F BSP (Union Type)	Epoxy resin coated steel

SPECIFICATION

- Max working pressure: 10 bar
- Temperature range: 0 - 100°C
- Max percentage of glycol: 50%

550220



550 SERIES - COMPACT MANIFOLDS



Ref no	Size	Number of outlets
550220	1 ½"	2 outlets
550230	1 ½"	3 outlets
550240	1 ½"	4 outlets
550221	1 ½"	2 + 1 outlets
550205	1 ½"	Hydraulic separator

SPECIFICATION

- Max working pressure: 6 bar
- Temperature range: 5 - 110°C
- Outlets: 1 ½" F with captive nut (ISO 228-1)
- Centre distance: 125 mm

DIRT AND AIR SEPARATION - AUTOMATIC AIR SEPARATORS

DISCAL® AUTOMATIC AIR SEPARATORS



Ref no	Size	Insulation	Connections	Body		
551002	22mm	No	Compression - no drain	Brass	10	-
551003	¾"	No	F x F BSP - no drain	Brass	10	-
551005	¾"	No	F x F BSP	Brass	6	-
551006	1"	No	F x F BSP	Brass	6	-
551007	1 ¼"	No	F x F BSP	Brass	6	-
551008	1 ½"	No	F x F BSP	Brass	6	-
551009	2"	No	F x F BSP	Brass	8	-
551905	¾"	No	F x F BSP	Brass	10	-
551906	1"	No	F x F BSP	Brass	10	-
551052	DN50	Yes	Flanged PN16	Epoxy resin coated steel	1	-
551062	DN65	Yes	Flanged PN16	Epoxy resin coated steel	1	-
551082	DN80	Yes	Flanged PN16	Epoxy resin coated steel	1	-
551102	DN100	Yes	Flanged PN16	Epoxy resin coated steel	1	-
551122	DN125	Yes	Flanged PN16	Epoxy resin coated steel	1	-
551152	DN150	Yes	Flanged PN16	Epoxy resin coated steel	1	-
551702	22mm	No	Compression	Brass	5	90
551703	28mm	No	Compression	Brass	5	90
551705	¾"	No	F x F BSP	Brass	5	90
551706	1"	No	F x F BSP	Brass	5	90



551002



551006



551706

SPECIFICATION

- The DISCAL® range of air eliminators are designed for use with heating circuits to provide an efficient method of air removal
- Max working pressure: 10 bar
- Max working temperature: 110°C without isolation
- Max percentage of glycol: 50%

For products 551052 - 551152 only

- Temperature range: 0 - 105°C (DN50-DN100)
- Temperature range: 0 - 100°C (DN125-DN150)
- With Insulation

DIRT AND AIR SEPARATION - AUTOMATIC AIR VENTS



502649



502420



502730



AUTOMATIC AIR VENTS

Ref no	Size	Connections	Pressure	Max Temp	Description		
502649	15mm	Compression	Discharge 6 bar	115°C	ROBOCAL®	100	2400
502420	¼"	M BSP	Discharge 4 bar	115°C	ROBOCAL®	112	2400
502430	¾"	M BSP	Discharge 4 bar	115°C	ROBOCAL®	50	2400
502530	¾"	M BSP	Discharge 4 bar	115°C	ROBOCAL® w/checkvalve	50	2400
502630	¾"	M BSP	Discharge 6 bar	115°C	ROBOCAL®	50	2400
502640	½"	M BSP	Discharge 6 bar	115°C	ROBOCAL®	100	2400
502730	¾"	M BSP	Discharge 6 bar	115°C	ROBOCAL® w/checkvalve	100	2400
CA-100099	½"	M BSP	Discharge 6 bar	115°C	ROBOCAL® w/checkvalve	100	2400
502030	¾"	M BSP	Discharge 2.5 bar	120°C	MINICAL®	50	2400
502040	½"	M BSP	Discharge 2.5 bar	120°C	MINICAL®	50	2400
502050	¾"	M BSP	Discharge 2.5 bar	120°C	MINICAL® w/hygroscopic cap	50	2400
502060	1"	M BSP	Discharge 2.5 bar	120°C	MINICAL® w/hygroscopic cap	50	2400
502130	¾"	M BSP	Discharge 2.5 bar	120°C	MINICAL® w/checkvalve	100	2400
501500	¾"	M BSP	Discharge 6 bar	120°C	MAXCAL	50	2400
504401	½"	M BSP	Discharge 2.5 bar	100°C	AERCAL®	25	-

SPECIFICATION

- The range of automatic air vents is operated via a float mechanism and is designed for the removal of air from systems
- Insulation available for MINICAL®: 502067 (see page 60)



551004



DISCALAIR® AUTOMATIC AIR VENTS



Ref no	Size	Connections	Pressure	Temperature	
551004	½"	F BSP	Discharge 10 bar	Max 110°C	10

SPECIFICATION

- Max percentage of glycol: 50%
- Max working pressure: 10 bar
- Max discharge pressure: 10 bar
- Temperature range: 0 - 110°C

DIRT AND AIR SEPARATION - DE-AERATORS

DISCALSLIM® DE-AERATOR



551802

Ref no	Size	Connections	Pressure	Temperature		
551802	22mm	Compression	Discharge 3 bar	Max 110°C	5	240
551805	3/4"	F BSP	Discharge 3 bar	Max 110°C	10	-
551806	1"	F BSP	Discharge 3 bar	Max 110°C	10	-



SPECIFICATION

- Max percentage of glycol: 30%
- Max working pressure: 3 bar
- Temperature range: 0 - 110°C
- With hygroscopic safety cap

Find out
more about the
DISCALSLIM® here



Read about
the DISCALSLIM®
in our IDRONICS UK
magazine



DIRT AND AIR SEPARATION - AUTOMATIC AIR VENTS

118-2001



KINETIC AIR VENTS



Ref no	Size	Connections	Temperature	
118-2001	1/2"	M BSP	Max 60°C	20
118-2002	3/4"	M BSP	Max 60°C	20
118-2003	1"	M BSP	Max 60°C	10
118-2004	2"	M BSP	Max 60°C	10

SPECIFICATION

- Operating pressure of 0.2 - 16 bar
- Internal parts: corrosion resistant plastic materials and synthetic rubber
- The valve allows the discharge of 60m³/h of air at pipe pressure of 0.5 bar, when fully-open



118-2013



CAVSA KINETIC AIR VALVE

Ref no	Size	Connections	Temperature	
118-2013	1"	M BSP	Max 60°C	10

SPECIFICATION

- Operating pressure of 0.2 - 16 bar
- Internal parts: corrosion resistant plastic materials and synthetic rubber
- The valve allows the discharge of 60m³/h of air at pipe pressure of 0.5 bar, when fully-open

561300



CHECK VALVES FOR AUTOMATIC AIR VENTS



Ref no	Size	Connections	Pressure	Temperature	
561230	1/4" x 3/8"	F x M BSP with PTFE seal	10 bar	Max 110°C	50
561300	3/8" x 3/8"	M x F BSP with PTFE seal	10 bar	Max 110°C	10
561340	3/8" x 1/2"	F x M BSP with PTFE seal	10 bar	Max 110°C	10
561400	1/2" x 1/2"	M x F BSP with PTFE seal	10 bar	Max 110°C	10

508041



HYGROSCOPIC AIR VENTS



Ref no	Size	Connections	Pressure	Temperature	
508011	1/8"	M BSP with PTFE seal	10 bar	Max 100°C	25
508021	1/4"	M BSP with PTFE seal	10 bar	Max 100°C	25
508031	3/8"	M BSP with PTFE seal	10 bar	Max 100°C	25
508041	1/2"	M BSP with PTFE seal	10 bar	Max 100°C	25

337131



MANUAL AIR VENTS



Ref no	Size	Connections	Pressure	Temperature	
337121	1/4"	M BSP with PTFE seal	6 bar	Max 85°C	200
337131	3/8"	M BSP with PTFE seal	6 bar	Max 85°C	200



DIRT AND AIR SEPARATION - STRAINERS

Y PATTERN STRAINERS



AI-595022

Ref no	Size	Connections		
AI-595015 *	15mm	Compression	100	2400
AI-595022 *	22mm	Compression	50	1200
AI-595028 *	28mm	Compression	25	600
AI-500015	1/2"	F x F BSP	150	3600
AI-500022	3/4"	F x F BSP	120	2880
AI-500025	1"	F x F BSP	60	1440
AI-500031	1 1/4"	F x F BSP	25	600
AI-500038	1 1/2"	F x F BSP	25	600
AI-500050	2"	F x F BSP	15	360
AI-500065	2 1/2"	F x F BSP	10	240
AI-500075	3"	F x F BSP	6	144
AI-500100	4"	F x F BSP	3	72



The Altecnic range of Y pattern strainers is designed for use within both domestic and commercial applications.



SPECIFICATION

- Max working pressure: 10 bar
- Max working temperature: 120°C
- Filter rating: 400 microns for the following product: 15mm, 22mm, 28mm, 3/8" 1/2", 3/4" and 1"
- Filter rating: 470 microns for the following products: 1 1/4" and 1 1/2"
- Filter rating: 530 microns for the following products: 2", 2 1/2", 3" and 4"

FOOT FILTERS



BA-030015000

Ref no	Size	Connections	
BA-030015000	1/2"	M BSP	105
BA-030020000	3/4"	M BSP	80
BA-030025000	1"	M BSP	50
BA-030032000	1 1/4"	M BSP	80
BA-030040000	1 1/2"	M BSP	60
BA-030050000	2"	M BSP	24
BA-030065	2 1/2"	M BSP	20
BA-03008000	3"	M BSP	20
BA-030100	4"	M BSP	20



SPECIFICATION

- For use with our non-return valves

DIRTMAG® ACCESSORIES



Ref no	Size	Description	
ALT-DM1MHOSE	3/4"	DIRTMAG® discharge hose	20
YU-JQAL213HC	1/2"	Drain off tailpiece	200
130-1016 CST		Valve union seal	1000
133-1041		DIRTMAG® washer	1000

Expansion Vessels

An expansion vessel is normally used to contain excess water pressure within a closed water heating system. A pressurised membrane within the expansion vessel (also called a bladder or diaphragm) allows the ingress or egress of water from the system to maintain a constant pressure. As water cannot be compressed in a closed water circuit, any increase in temperature needs to be accommodated and this is done by the expansion vessel.

RANGE OVERVIEW

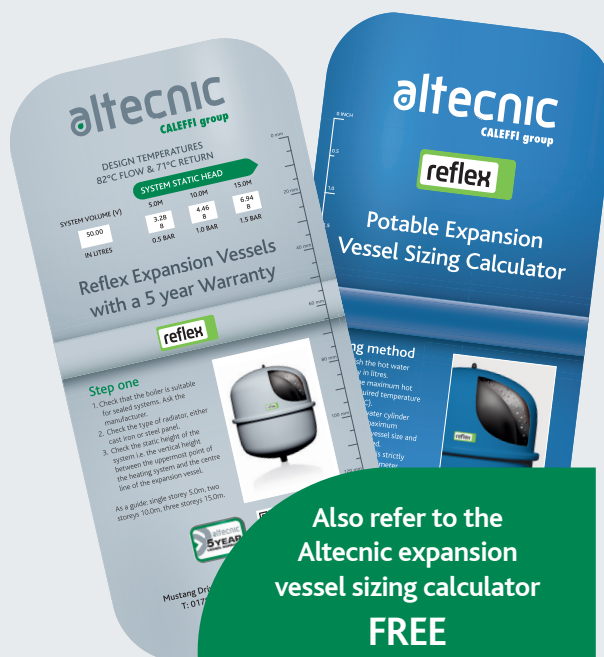
- Heating vessels available in 8 to 1000 litres
- Potable vessels available in 8 to 1000 litres
- Flow through vessels available in 8 to 600 litres
- Nitrogen filled vessels
- 5 year warranty
- Domestic and commercial applications

HEATING VESSEL SIZING GUIDE

Boiler output		Vessel size per system static head		
kw	btu/hr	5 m (Litre)	10 m (Litre)	15 m (Litre)
10	34120	8	12	18
15	51180	12	18	24
20	68240	12	18	35
25	85300	18	25	35
35	119421	25	35	50
40	136480	35	35	80
		0.5 bar	1.0 bar	1.5 bar
		Vessel pre-charge (set by installer)		



Find out more
about Expansion
Vessels here



Also refer to the
Altecnic expansion
vessel sizing calculator
FREE
on request.





Heating Expansion Vessels
HV25C



CE marked

UK
CA

Expansion
Vessels

VESSELS - HEATING VESSELS

Heating expansion vessels sizing

Heating Vessel Calculation

$$V = \frac{e \times C}{[1 - (P_{prec} + 0.3 + 1) \div (P_{max} + 1)]}$$

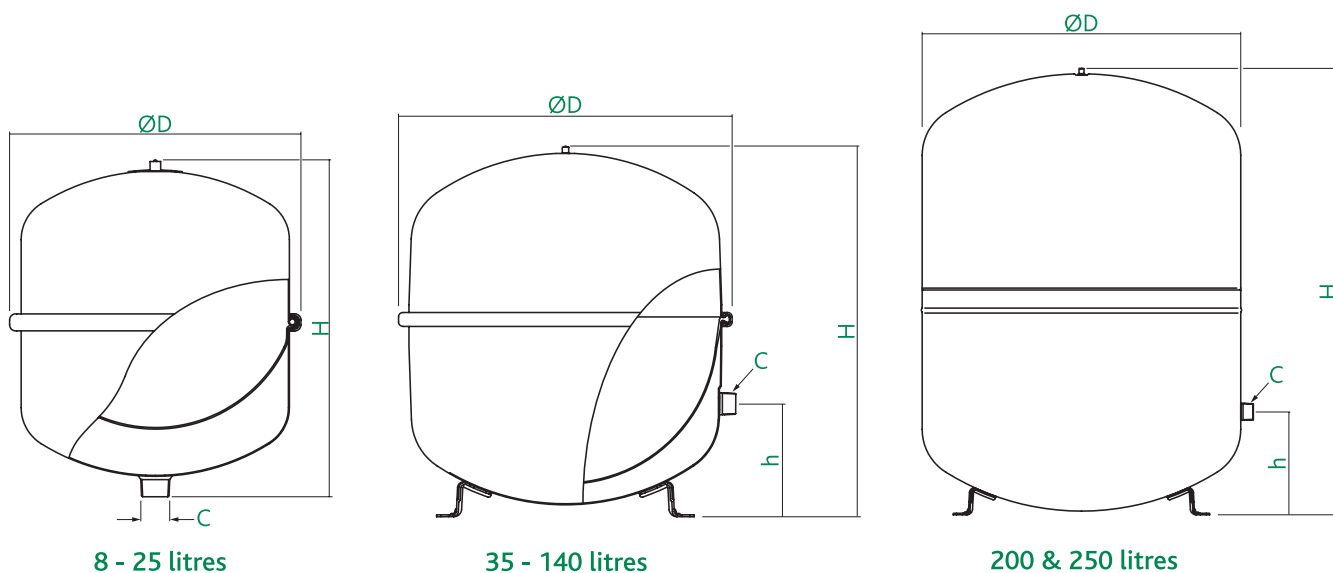
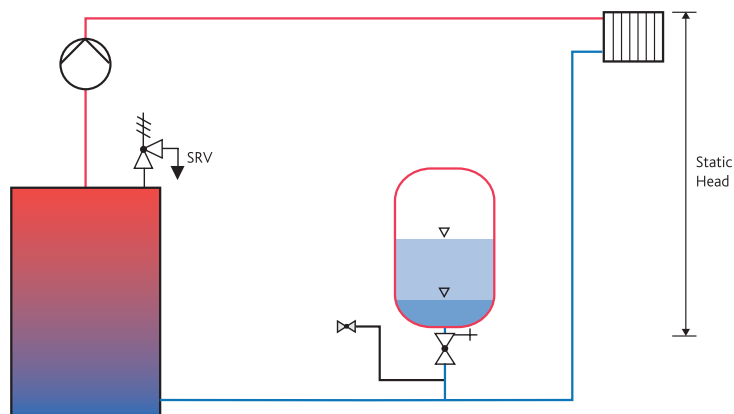
V = Vessel size

e = Coefficient of water expansion

C = System volume in litres

P_{max} = System pressure in Bar

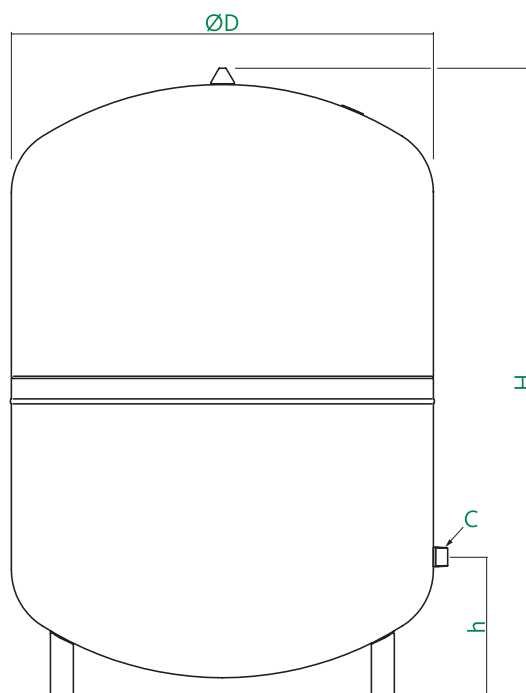
P_{prec} = Precharge pressure in Bar



Materials

Component	Material
Shell	Carbon steel
Connections	Carbon steel
Diaphragm	Synthetic rubber compound
Coating	Powder epoxy

Larger vessel capacities available please call for more details



300 - 800 litres

VESSELS - HEATING VESSELS

HEATING EXPANSION VESSELS 8 - 25 LITRES



Ref. no	Cap (L)	Dia (Ø D mm)	H (H mm)	Connection (inches)	W (kg)	Max pressure	Bracket	
HV8C	8	272	235	R ¾	1.7	4 bar	No	84
HV12C	12	272	315	R ¾	2.3	4 bar	No	60
HV18C	18	308	365	R ¾	2.8	4 bar	No	60
HV25C	25	308	485	R ¾	3.5	4 bar	No	48
HVB8C	8	272	235	R ¾	1.7	4 bar	Yes	84
HVB12C	12	272	315	R ¾	2.3	4 bar	Yes	60
HVB18C	18	308	365	R ¾	2.8	4 bar	Yes	60
HVB25C	25	308	485	R ¾	3.5	4 bar	Yes	48



CE marked

UK
CA



SPECIFICATION

- Test pressure: 1.5 x max working pressure
- Max flow operating temperature: 120°C
- Max vessel operating temperature: 70°C
- Factory pre-charge: 1.5 bar - nitrogen
- Membrane: Synthetic Rubber

HEATING EXPANSION VESSELS 35 - 140 LITRES

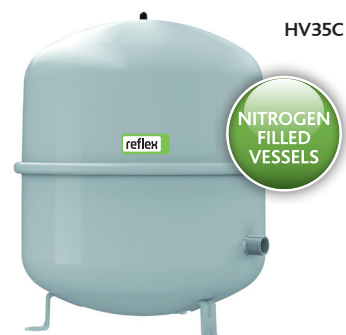


Ref. no	Cap (L)	Dia (Ø D mm)	H (H mm)	Connection (inches)	W (kg)	Max pressure	
HV35C	35	376	465	R ¾	5.7	4 bar	24
HV50C	50	441	495	R ¾	7.5	6 bar	24
HV80C	80	512	570	R 1	9.9	6 bar	12
HV100C	100	512	680	R 1	11.2	6 bar	10
HV140C	140	512	895	R 1	14.5	6 bar	8



CE marked

UK
CA



SPECIFICATION

- Test pressure: 1.5 x max working pressure
- Max flow operating temperature: 120°C
- Max vessel operating temperature: 70°C
- Factory pre-charge: 1.5 bar - nitrogen
- With feet
- Membrane: Synthetic Rubber

HEATING EXPANSION VESSELS 200 - 800 LITRES



Ref. no	Cap (L)	Dia (Ø D mm)	H (H mm)	Connection (inches)	Wt (kg)	Max pressure	
HV200W	200	634	760	R 1	37	6 bar	4
HV250W	250	634	890	R 1	45	6 bar	4
HV300W	300	634	1090	R 1	52	6 bar	1
HV400W	400	740	1090	R 1	65	6 bar	1
HV500W	500	740	1290	R 1	79	6 bar	1
HV600W	600	740	1530	R 1	85	6 bar	1
HV800W	800	740	1995	R 1	103	6 bar	1



CE marked

UK
CA



SPECIFICATION

- Test pressure: 1.5 x max working pressure
- Max flow operating temperature: 120°C
- Max vessel operating temperature: 70°C
- Factory pre-charge: 1.5 bar - nitrogen
- With feet
- 300l - 800l vessels palletised
- Membrane: Synthetic Rubber

EXPANSION
VESSELS

VESSELS - HEATING VESSELS

HV8F

SPACE
SAVING



CE marked UK
CA

OEM HEATING VESSELS



Ref no	Cap (L)	Connections	Dia (Ø D mm)	H (Ø H mm)	Max pressure		
HV8F	8	G ¾"	324	129	3 bar	56	56
HV10F	10	G ¾"	324	139	3 bar	48	48
HV12F	12	G ¾"	324	169	3 bar	40	40

SPECIFICATION

- Flat vessel for expansion on heating systems and boilers
- Max working pressure: 3 bar
- Max vessel operating temperature: 70°C

HV8I

SPACE
SAVING



CE marked UK
CA

NITROGEN
FILLED
VESSELS

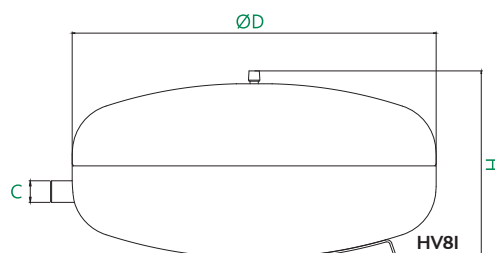
HEATING VESSELS C/W INTEGRATED BRACKETS



Ref no	Cap (L)	Dia (Ø D mm)	H (Ø H mm)	Connections	Max pressure	
HV8I	8	287	163	G ½"	3 bar	1
HV12I	12	362	168	G ½"	3 bar	1
HV18I	18	362	222	G ¾"	3 bar	1
HV25I	25	409	239	G ¾"	3 bar	1
HV35I	35	480	240	G ¾"	3 bar	1
HV50I	50	480	318	G ¾"	3 bar	1
HV80I	80	634	325	G ¾"	3 bar	1

SPECIFICATION

- Flat vessel for expansion on heating systems and boilers
- Max working pressure: 3 bar
- Max vessel operating temperature: 70°C



8 - 80 litres

VESSELS - ACCESSORIES

ISOLATION VALVE WITH DRAIN OFF



Ref no	Description
PVA34W	¾" x 22mm isolating valve c/w drain



PVA34W

SPECIFICATION

- Union connection for easy fitting
- Isolation should the expansion vessel need to be removed
- Drain facility to allow the expansion vessel to be drained without the need to drain the circuit or system.

LOCKABLE ISOLATION VALVE WITH DRAIN OFF



Ref no	Description	
PVA34L	¾" lockable isolation valve	100
PVA10L	1" lockable isolation valve	100



PVA34L

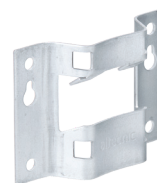
SPECIFICATION

- Tamper-proof
- Max working pressure: 10 bar
- Min working temperature: 120°C
- With drain port

ACCESSORIES FOR EXPANSION VESSELS



Ref no	Description		
RS-MB2	Potable vessel mounting bracket 8 litre - 18 litre (with strap)	80	2880
RS-MB24	Potable vessel mounting bracket 25 litre (2 straps) only	48	1536
PVADG	Digital hand-held pressure gauge	20	-



RS-MB2



PVADG

Potable water expansion vessels sizing

Potable Water Vessel Calculation

$$V = \frac{e \times C}{[1 - (P_{prec} + 1) \div (P_{max} + 1)]}$$

V = Vessel size

e = Coefficient of water expansion

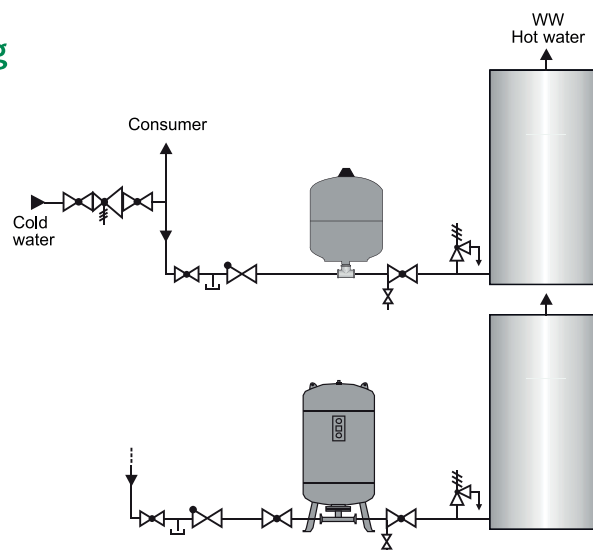
C = System volume in litres

P_{max} = System pressure in Bar

P_{prec} = Precharge pressure in Bar

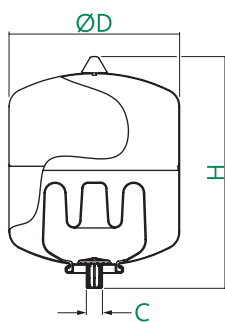
P_{max} = The set pressure of the system safety relief valve (typically 6 Bar)

P_{prec} = The set pressure of the system pressure reducing valve (typically 3 Bar)

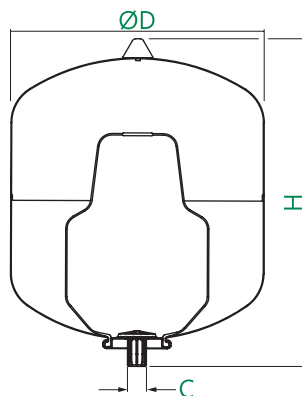


* Note system layouts are indicative only. Refer to relevant standards.

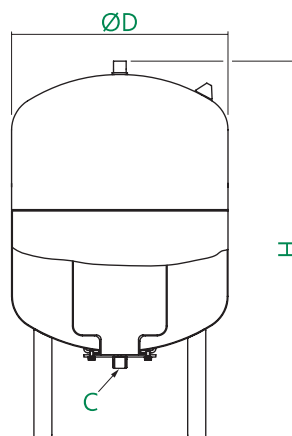
Larger vessel capacities available please call for more details



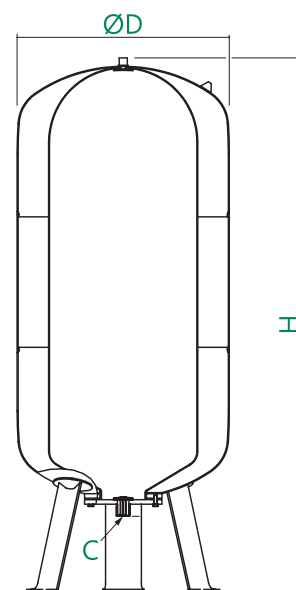
8 - 25 litres



33 litres



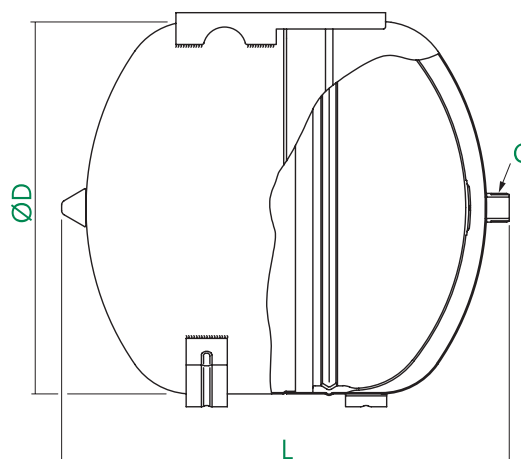
50 - 500 litres



600 - 1000 litres

Materials

Component	Material
Shell	Carbon steel
Connections	Carbon steel with plastic insert
Diaphragm	Butyl
Coating	Powder epoxy



Horizontal range

VESSELS - POTABLE VESSELS

VERTICAL POTABLE WATER EXPANSION VESSELS 8 - 33 LITRES

Ref. no	Cap (L)	Dia (Ø D mm)	H (H mm)	Connection (inches)	W (kg)	Max pressure	
PV8W *	8	206	335	G ¾	1.8	10 bar	96
PV12W *	12	280	310	G ¾	2.4	10 bar	60
PV18W *	18	280	410	G ¾	2.8	10 bar	56
PV25W †	25	280	520	G ¾	4.7	10 bar	42
PV33W †	33	354	455	G ¾	6.6	10 bar	24

SPECIFICATION

- Max working pressure: 10 bar
- Max vessel operating temperature: 70°C
- Factory pre-charge: Contact our technical team
- System water connection thread: BS EN ISO 228 - male
- Membrane: Fixed Butyl



PV33W

VERTICAL POTABLE WATER EXPANSION VESSELS 50 - 1000 LITRES

Ref. no	Cap (L)	Dia (Ø D mm)	H (H mm)	Connection (inches)	W (kg)	Max pressure	
PV50W	50	409	605	G 1	9.5	10 bar	20
PV60W	60	409	740	G 1	14	10 bar	12
PV80W	80	480	745	G 1	16	10 bar	10
PV100W	100	480	850	G 1	19	10 bar	10
PV140W	140	480	1015	R 1	29	10 bar	8
PV200W	200	634	970	G 1 ¼	40	10 bar	4
PV300W	300	634	1270	G 1 ¼	54	10 bar	1
PV400W	400	740	1245	G 1 ¼	70	10 bar	1
PV500W	500	740	1475	G 1 ¼	79	10 bar	1
PV600W	600	740	1860	G 1 ½	103	10 bar	1
PV800W	800	740	2325	G 1 ½	195	10 bar	1
PV1000W	1000	740	2804	G 1 ½	228	10 bar	1

SPECIFICATION

- Max working pressure: 10 bar
- Max vessel operating temperature: 70°C
- Factory pre-charge: Contact our technical team
- Membrane: Replaceable Butyl (PV140W: Fixed Butyl)
- System water connection thread: BS EN ISO 228 - male
- 140 litre size: BS EN 10226 - male
- Top connection 80 litre +
- 300l - 1000l vessels palletised



PV500W

HORIZONTAL POTABLE WATER EXPANSION VESSELS 25 - 100 LITRES

Ref. no	Cap (L)	Dia (Ø D mm)	L (L mm)	Connection (inches)	W (kg)	Max pressure	
PVH25W	25	280	520	G ¾	5.5	10 bar	36
PVH50W	50	409	503	G 1	15	10 bar	20
PVH80W	80	480	595	G 1	18	10 bar	10
PVH100W	100	480	705	G 1	21	10 bar	8

SPECIFICATION

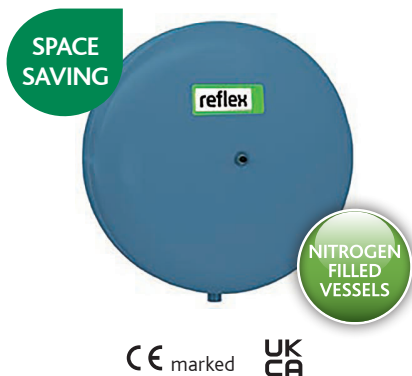
- Max working pressure: 10 bar
- Max vessel operating temperature: 70°C
- Factory pre-charge: Contact our technical team
- System water connection thread: BS EN ISO 228 - male
- Membrane: Fixed Butyl



PVH50W

VESSELS - POTABLE VESSELS

VF8D



VFD POTABLE VESSELS WITH INTEGRATED BRACKET



Ref. no	Cap (L)	Dia (Ø D mm)	H (H mm)	Connection (inches)	W (kg)	Max pressure	
VF8D	8	280	300	G ½	3.8	10 bar	20
VF12D	12	354	375	G ½	5.2	10 bar	15
VF18D	18	354	375	G ¾	5.6	10 bar	10
VF25D	25	409	430	G ¾	8.2	10 bar	10
VF35D	35	480	500	G ¾	13	10 bar	5
VF50D	50	480	500	G ¾	15.4	10 bar	1
VF80D	80	634	654	G ¾	22.4	10 bar	1

SPECIFICATION

- Max working temperature: 70°C
- Membrane: Fixed Butyl
- Threaded stainless steel connection
- Integrated bracket

PV18F



POTABLE WATER EXPANSION VESSELS C/W INTEGRATED BRACKETS



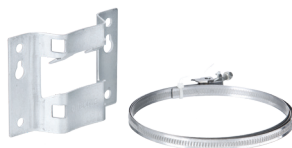
Ref no	Cap (L)	Dia (Ø D mm)	H (Ø H mm)	Connections	Bracket	Max pressure	
PV12D	12	280	309+/-5	22mm Compression	N	10 bar	56
PV18D	18	280	407+/-5	22mm Compression	N	10 bar	56
PV25D	25	280	518+/-5	22mm Compression	N	10 bar	42
PV12F	12	280	309+/-5	G ¾"	Y	10 bar	60
PV18F	18	280	407+/-5	G ¾"	Y	10 bar	56
PV25F	25	280	518+/-5	G ¾"	Y	10 bar	42
PV12G	12	280	309+/-5	G ¾"	N	10 bar	60
PV18G	18	280	407+/-5	G ¾"	N	10 bar	56
PV25G	25	280	518+/-5	G ¾"	N	10 bar	42

SPECIFICATION

- Max working pressure: 10 bar
- Max vessel operating temperature: 70°C
- Membrane: Fixed Butyl
- Integrated bracket



RS-MB2



PVADG



ACCESSORIES FOR EXPANSION VESSELS



Ref no	Description		
RS-MB2	Potable vessel mounting bracket 8 litre - 18 litre (with strap)	80	2880
RS-MB24	Potable vessel mounting bracket 25 litre (with 2 straps) only	20	480
PVADG	Digital hand-held pressure gauge	20	-

VESSELS - FLOW THROUGH VESSELS

FLOW THROUGH SERIES POTABLE VESSELS

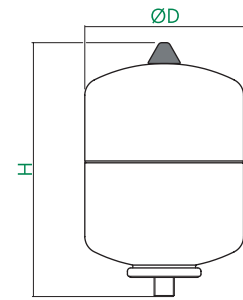
Reflex Flow Through vessels from Altecnic prevent build-up of potentially harmful bacteria in potable water expansion vessels by reducing stagnation within the vessel. The innovative design encourages flushing through the expansion vessel, greatly reducing the opportunity for potentially harmful cysts to form.

‡ Using the optional Flowjet valve is recommended.

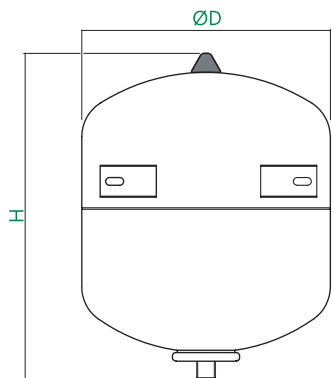
Materials	
Component	Material
Shell	Carbon steel
Connections	Stainless steel
Diaphragm	Synthetic rubber compound
Coating	Powder epoxy
Technical Specification	
Max. working pressure	10 bar
Max. vessel operating temperature	70°C
Factory pre-charge - Vertical range	Contact our technical team
System water connection thread	BS EN ISO 228 - male



‡ Flow Through vessel with Flowjet valve

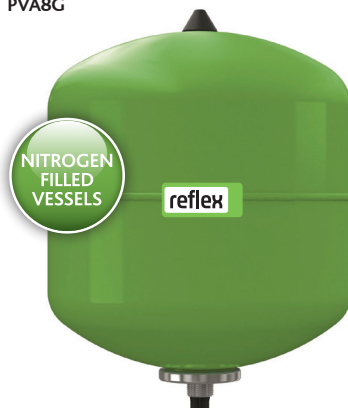


8 - 25 litres



33 litres

PVA8G



CE marked UK CA

Larger vessel capacities available please call for more details

FLOW THROUGH POTABLE WATER EXPANSION VESSELS 2 - 600 LITRES - MEMBRANE: FIXED BUTYL

Ref. no	Cap (L)	Dia (Ø D mm)	H (H mm)	Connection (inches)	W (kg)	Max pressure		
PVA2G *	2	132	269	G ¾"	1.0	10 bar	1	200
PVA8G *	8	206	345	G ¾"	2.7	10 bar	1	96
PVA12G *	12	280	325	G ¾"	3.7	10 bar	1	60
PVA18G *	18	280	420	G ¾"	4.7	10 bar	1	56
PVA25G †	25	280	530	G ¾"	5.7	10 bar	1	42
PVA33G †	33	354	465	G ¾"	6.5	10 bar	1	12
PVA60G †	60	409	755	1 ¼"	15.0	10 bar	1	1
PVA80G †	80	480	750	1 ¼"	16.5	10 bar	1	8
PVA100G †	100	480	856	1 ¼"	18.6	10 bar	1	8
PVA200G †	200	634	975	1 ¼"	37.0	10 bar	1	1
PVA300G †	300	634	1275	1 ¼"	43.5	10 bar	1	1
PVA400G †	400	740	1245	1 ¼"	73.0	10 bar	1	1
PVA500G †	500	740	1475	1 ¼"	69.0	10 bar	1	1
PVA600G †	600	740	1860	DN50/PN16	164.0	10 bar	1	1



SPECIFICATION

- Anti-Legionella vessel when used with Flowjet attachment
- 300l to 600l vessels palletised

PVACC1



FLOWJET VALVE FOR POTABLE WATER SYSTEMS

Ref no	Connections	Max pressure		
PVACC1 *	G ¾"	10 bar	40	1920
PVACC2	G 1 ¼"	10 bar	40	980



VESSELS - MINI & STAINLESS STEEL

PV2W



CE marked

MINI EXPANSION VESSELS 0.5 - 2 LITRE



Ref no	Cap (L)	Connection (inches)	Max pressure	Max Temp		
PV2RS	2	15mm compression	10 bar	100°C	4	200
PV2W	2	G 3/4"	10 bar	70°C	4	200
PV2Z	2	G 1/2"	10 bar	70°C	4	200

SPECIFICATION

- Steel body and inlet connection noryl polymer
- Membrane: Butyl



SSV1C



CE marked

STAINLESS STEEL MINI VESSELS



Ref no	Cap (L)	Connection (inches)	Max pressure	Max Temp		
PV05RS *	0.5	G 1/2"	10 bar	70°C	24	400
SSV1C	1	G 1/2"	10 bar	70°C	9	162
SSV2A	2	G 1/2"	10 bar	70°C	9	162

SPECIFICATION

- Stainless steel body
- Membrane: Butyl



SSV20C



CE marked

STAINLESS STEEL EXPANSION VESSEL



Ref. no	Cap (L)	Dia (Ø D mm)	Ht (H mm)	Connection (inches)	Max pressure	
SSV8C *	8	200	340	G3/4B	10 bar	24
SSV18C *	18	250	370	G1B	10 bar	16
SSV24C	20	250	490	G1B	10 bar	8
SSV50C	50	365	729	G1B	10 bar	6
SSV100C	100	496	818	G1B	10 bar	1

SPECIFICATION

- Max operating pressure: 10 bar
- Max operating temperature: 100°C
- Membrane: replaceable
- System water connection thread: BS EN 228



VESSELS - SHOCK ARRESTORS

SHOCK ARRESTOR/MINI EXPANSION VESSEL



Ref no	Size	Connections	Max pressure	Description	Box	Stack
PV016D ‡	0.16 L	G ¼"	15 bar	Mini-expansion	10	1080
PV016E *	0.16 L	G ½"	15 bar	Mini-expansion	10	1080
PV016C ‡	0.16 L	R ½"	15 bar	Mini-expansion	10	1080
PC016C	0.16 L	R ½"	15 bar	Mini-expansion	10	1080
PV016RS † ‡	0.16 L	15mm Compression	15 bar	Mini-expansion	10	1080
PV05RS † ‡	0.5 L	G ½"	10 bar	Mini-expansion	10	432

PV016RS

PV016E



MINI EXPANSION SPECIFICATION

- Max working pressure: 15 bar
- Max working temp: 100°C

† **RoboShock®**



MECHANICAL SHOCK ARRESTOR



Ref no	Size	Connections	Max pressure	Description	Box	Stack
525040	½"	M BSP	10 bar	Mechanical	25	1200

MECHANICAL SPECIFICATION

- Max working pressure: 10 Bar
- Max working temp: 90°C
- PTFE seal on thread



525040

SHOCK ARRESTOR WITH TEE AND GAUGE



Ref no	Size	Connections	Max pressure	Description	Box
PVRSK	0.16 L	15mm Compression	6 bar	ROBOSHOCK®	250

SPECIFICATION

- Max working pressure: 15 bar
- Max working temp: 100°C

Need to remove
water hammer?
Find out how here



PVRSK

WATER HEATER PACKS

CA-100148



CE marked

WATER HEATER ACCESSORY PACKS



Ref no	Pack	Description	
CA-100148	Water heater accessory pack 1	1 x 1/2" PRV at 3.5 bar. 1 x expansion vessel 2 litre. 1 x 1/2" SRV at 6 bar 312460. 1 x 15mm single check valve	1
CA-100149	Water heater accessory pack 2	1 x expansion vessel 2 litre. 1 x 1/2" safety valve. 1 x 15mm single check valve	1
CA-100150	Water heater accessory pack 4	1 x 1/2" PRV at 3.5 bar. 1 x expansion vessel 2 litre. 1 x 15mm single check valve	1
CA-100151	Water heater accessory pack 5	1 x expansion vessel 2 litre. 1 x 15mm single check valve	1

SPECIFICATION

- Suitable for installation with all single/multi-point water heaters.
- 5 year warranty on expansion vessel.



G-105-0002



WATER HEATER ISOLATION VALVES



Ref no	Size	Connections	
G-105-0002	15mm x 1/2"	Compression x F BSP - Angled	100
105-0001	15mm x 15mm	Compression x F BSP - Angled	100

DOSING POTS

DOSING POTS



Ref no	Capacity (Litres)	Description
141-1001	3.5	1x fabricated vessel with welded construction, 1x tundish, 2x integral wall brackets 4 x 1" BSP isolating valves, 2 x 1" tee pieces 4 x 1" BSP pipe nipples
141-1002	6	1x fabricated vessel with welded construction, 1x tundish, 2x integral wall brackets 4 x 1" BSP isolating valves, 2 x 1" tee pieces 4 x 1" BSP pipe nipples
141-1003	11	1x fabricated vessel with welded construction, 1x tundish, 2x integral wall brackets 4 x 1" BSP isolating valves, 2 x 1" tee pieces 4 x 1" BSP pipe nipples
141-1004	18	1x fabricated vessel with welded construction, 1x tundish, 2x integral wall brackets 4 x 1" BSP isolating valves, 2 x 1" tee pieces 4 x 1" BSP pipe nipples
141-1005	25	1x fabricated vessel with welded construction, 1x tundish, 2x integral wall brackets 4 x 1" BSP isolating valves, 2 x 1" tee pieces 4 x 1" BSP pipe nipples
141-1006	35	1x fabricated vessel with welded construction, 1x tundish, 2x integral wall brackets 4 x 1" BSP isolating valves, 2 x 1" tee pieces 4 x 1" BSP pipe nipples
141-1007	40	1x fabricated vessel with welded construction, 1x tundish, 2x integral wall brackets 4 x 1" BSP isolating valves, 2 x 1" tee pieces 4 x 1" BSP pipe nipples
141-1008	50	1x fabricated vessel with welded construction, 1x tundish, 2x integral wall brackets 4 x 1" BSP isolating valves, 2 x 1" tee pieces 4 x 1" BSP pipe nipples

141-1007



CE marked

SPECIFICATION

- All pipe connections 1" BSP
- 3/8" BSP air vent connection
- Max working pressure: 10 bar
- Max operating temperature: 90°C
- Complies with the Pressure Equipment Directive (PED) 2014/68/EU

Sealed Systems

Sealed primary central heating systems are the most commonly used form of heating system throughout Europe and the rest of the developed world. The ease of installation of a sealed system makes is particularly attractive to the installer, eliminating the feed and expansion tank and associated pipework, and therefore reducing the risk of corrosion and noise in the system.

RANGE OVERVIEW

- Available in 8 to 80 litres
- Nitrogen filled sealed systems
- Compact sealed systems available
- Domestic and commercial applications
- PED compliant

HEATING VESSEL SIZING GUIDE

Boiler output		Vessel size per system static head		
kw	btu/hr	5 m (Litre)	10 m (Litre)	15 m (Litre)
10	34120	8	12	18
15	51180	12	18	24
20	68240	12	18	35
25	85300	18	25	35
35	119421	25	35	50
40	136480	35	35	80
		0.5 bar	1.0 bar	1.5 bar
Vessel pre-charge (set by installer)				



Also refer to the
Altecnic expansion
vessel sizing calculator
FREE
on request.





ROBOKIT EXTRA®
Sealed System CA-900012

CE marked



UK
CA

Sealed
Systems

SEALED SYSTEMS - ROBOKITS

CA-900012



CE marked UK CA

ROBOKIT EXTRA® SEALED SYSTEM - NITROGEN FILLED



Ref no	Vessel (Litre)	Expansion Vessel	Filling Loop	Mounting Bracket	Safety Relief Valve w/gauge	Manifold Fitting	
CA-900008	8	Y	Y	Y	Y	Y	84
CA-900012	12	Y	Y	Y	Y	Y	60
CA-900018	18	Y	Y	Y	Y	Y	60
CA-900024	25	Y	Y	Y	Y	Y	48
CA-900035	35	Y	Y	N	Y	Y	24
CA-900050CP	50	Y	Y	N	Y	Y	24
CA-900080	80	Y	Y	N	Y	Y	18

SPECIFICATION

- Reflex vessel includes Altecnic 5-year warranty
- Nitrogen filled
- Not suitable for potable water



109-5005



SPACE SAVING

CE marked UK CA

ROBOKIT COMPACT® SEALED SYSTEM



Ref no	Vessel (Litre)	Expansion Vessel	Filling Loop	Mounting Bracket	Safety Relief Valve w/gauge	Manifold Fitting
109-5005	8	Y	Y	Y	Y	Y
109-5006	12	Y	Y	Y	Y	Y
109-5007	18	Y	Y	Y	Y	Y

SPECIFICATION

- Sealed system kit comprising: expansion vessel up to 18 litre capacity, filling loop, safety relief valve, pressure gauge, integral mounting bracket and assembly connector allowing left or right installation on the system

109-5008



SPACE SAVING

CE marked UK CA

ROBOKIT COMPACT PLUS® SEALED SYSTEM



Ref no	Vessel (Litre)	Expansion Vessel	Filling Loop	Mounting Bracket	Safety Relief Valve w/gauge	Manifold Fitting	
109-5008	8	Y	Y	Y	Y	Y	42
109-5009	10	Y	Y	Y	Y	Y	-
109-5010	12	Y	Y	Y	Y	Y	-

SPECIFICATION

- Sealed system kit comprising: expansion vessel up to 12 litre capacity, WRAS Approved filling loop, safety relief valve, pressure gauge, integral mounting bracket and assembly connector allowing left or right installation on the system

SEALED SYSTEMS - KITS, FILLING LOOPS & MULTI FUNCTION BRACKETS

ROBOKIT® SEALED SYSTEM KITS



Ref no	Size	Description	Quantity
CA-900000	15mm	1/2" sealed system kit (for 8 litre to 24 litre) with tapered vessel connection.	200
CA-900001	15mm	Filling loop, safety relief valve w/gauge, mounting bracket, manifold fitting.	200
CA-100000	15mm	Filling loop, safety relief valve w/gauge, manifold fitting.	200
CA-100085	15mm	Filling loop, safety relief valve (remote from ROBOKIT®), pressure gauge, mounting bracket, manifold fitting.	200
109-7001	15mm	ROBOKIT® essentials sealed system kit	200



CA-900000



109-7001

SPECIFICATION

- Sealed system filling kit comprising: filling loop, safety relief valve complete with gauge, mounting bracket to suit up to 25 litre capacity and manifold fitting
- Water regulations G24.1 and 24.2 compliant filling loop

Please note: sealed system kits do not include vessel

FILLING LOOPS



Ref no	Size	Description	Quantity	Quantity
CA-300001	15mm	ROBOFIL auto filling loop	25	-
CA-300606 *	15mm	ECOFIL® filling loop (G24 approved)	50	1200
CA-300611 *	15mm	ECOFIL®+ filling loop, cap and collar (G24 approved)	50	1600
JI-300608 *	15mm	ROBOFIL filling loop (as used in ROBOKIT®)	20	1500
ALT-ST0035	15mm	Filling loop with built-in gauge	20	480
YU-JQAL304	15mm	Cap, collar & washer	800	-



CA-300611



CA-300001



ALT-ST0035

Used to fill sealed systems from the mains cold water.



SPECIFICATION

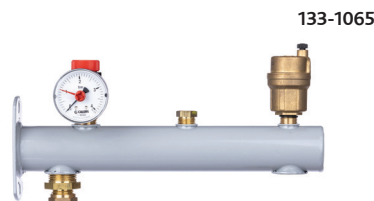
- Approved flexible hoses complete with check valves
- Comply with water regulations and use WRAS approved components * Water regulation G24.1 and 24.2 compliant where indicated



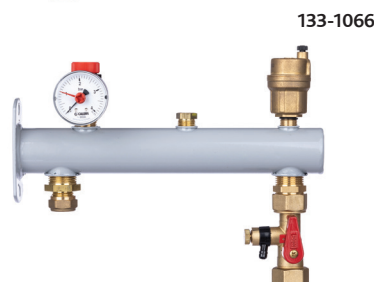
MULTI FUNCTION EXPANSION VESSEL BRACKETS



Ref no	Description	Quantity
133-1065	Multifunction Fixing Bracket only	1
133-1066	Multifunction Fixing Bracket Plus	1



133-1065



133-1066

SPECIFICATION

- Suitable for connection to heating vessels 2-25L
- Space saving and easy install
- Includes automatic air vent
- Plus versions includes expansion vessel isolation and drain-off

FULL FLOW DIFFERENTIAL BYPASS VALVES

518500



NEW

SERIES 518 - ECOPAS FULL FLOW DIFFERENTIAL BYPASS VALVE



Ref no	Size	Connections	Body	Delta P Range	Temp	
518002	22mm	Compression	Angled	Adjustment range 10 - 60 kPa	Max 100°C	25
518015	¾" x ¾"	M x M BSP	Straight	Adjustment range 10 - 60 kPa	Max 100°C	25
518500	¾"	F x M BSP	Angled	Adjustment range 10 - 60 kPa	Max 100°C	50

Valves for use on heating systems where control is by zone or thermostatic radiator valves. Fitted between flow and return permitting circulation through boiler and helps prevent unnecessary cycling of boiler.

SPECIFICATION

- Temperature setting range: 0 - 100°C
- Max working pressure: 10 bar
- Medium: water, glycol solutions
- Max percentage of glycol: 30%

519002



SERIES 519 - ECOPAS FULL FLOW DIFFERENTIAL BYPASS VALVE



Ref no	Size	Connections	Body	Delta P Range	Temp	
519500	¾" x ¾"	F x M BSP	Angled	Adjustment range 10 - 60 kPa	Max 110°C	50
519700	1 ¼" x 1 ¼"	F x M BSP	Angled	Adjustment range 10 - 60 kPa	Max 110°C	10
519504	¾" x ¾"	F x M BSP	Angled	Adjustment range 100 - 400 kPa	Max 110°C	50
519703	1 ¼" x 1 ¼"	F x M BSP	Angled	Adjustment range 50-250 kPa	Max 110°C	10
519002	22mm x 22mm	Compression x Compression	Angled	Adjustment range 10 - 60 kPa	Max 110°C	50

Valves for use on heating systems where control is by zone or thermostatic radiator valves. Fitted between flow and return permitting circulation through boiler and helps prevent unnecessary cycling of boiler.

SPECIFICATION

- Temperature setting range: 0 - 110°C
- Max working pressure: 10 bar
- Medium: water, glycol solutions
- Max percentage of glycol: 30%

SEALED SYSTEMS - MATRIX DIGITAL PRESSURISATION UNIT

MATRIX MINI



Ref no	Description	Filled Weight - Kg	Empty Weight - Kg	
121-1001	Matrix Mini 130D	6.6	3.6	6
121-1002	Matrix Mini 230D	7.2	4.2	6

Suitable for maintaining pressure in large domestic and commercial sealed heating systems, chilled water systems, refrigeration units and industrial cooling systems. Matrix Mini units are exceptionally easy to install and commission and are housed in a compact and robust enclosure suitable for wall mounting.

CE marked

UK
CA



MATRIX MIDI



Ref no	Description	Filled Weight - Kg	Empty Weight - Kg	
121-1011	Matrix Midi 135D	23.4	13.4	6
121-1012	Matrix Midi 150D	23.4	13.4	6
121-1013	Matrix Midi 235D	29.4	19.4	6
121-1014	Matrix Midi 250D	29.4	19.4	6

Suitable for maintaining pressure in large domestic and commercial sealed heating systems, chilled water systems, refrigeration units and industrial cooling systems. Matrix Midi units feature continuously rated brass peripheral pumps, are exceptionally easy to install and commission and are suitable for either floor or wall mounting.

CE marked

UK
CA



The Altecnic range of digital pressurisation units represent the next generation of automatic filling and pressure maintenance solutions for sealed heating and chiller systems.

Unique Monocoque Design

Offers a compact unit that can be wall mounted or floor standing. Along with flexible hose connections easily configured to be left or right handed.

Advanced Digital Controls

Featuring intuitive, easy to use menu system and backlit LCD matrix display.

Premium Quality Pumps

Available in single (duty) or twin pump (duty-standby) options, offering balanced usage based on run time and extended life.

Precise Pressure Transducer

Closed loop control featuring precise system pressure monitoring and top up. System pressure control operates in 0.1 bar increments.

Robust Break Tank

8 - 18 litres capacity and with a WRAS approved fill valve offering high flow rates of 12 litres/minute. Features include type AB air gap and weir overflow.

External Alarm

Multiple Volt-free contacts and BMS connectivity to external alarms and systems.

- ✓ Simple & convenient to install
- ✓ Easy & quick commissioning
- ✓ High reliability

- ✓ Monitoring and control
- ✓ Category 5 compatible
- ✓ System connectivity

PERFORMANCE

- Up to 300,000 litre systems
- Duty or Duty Standby options
- Up to 7.0 bar pressure options
- 2 to 18 litre tank capacity options
- High flow fill valve
- Quiet operation

QUALITY

- Built-in safety – low voltage controls
- WRAS Approved fill valve
- ISO 9001:2015
- BS EN 60335 compliant
- CE compliant

RELIABILITY

- 2 year guarantee
- Robust construction
- Continuously rated pumps
- Dry run protection

Ball Valves

Altecnic offer a range of ball valves to control the flow of water. Available in a range of sizes with a variety of different handles to suit each application. The Altecnic INTABALL® lever ball valve with compression ends is the ideal isolation valve for use in copper pipe systems.

RANGE OVERVIEW

The INTABALL® brass ball valves are lever operated through 90°, with bi-directional flow.

- Hard chrome plated ball for increased wear resistance.
- Compact design, with PTFE body seats for reliable isolation.
- Anti blow out stem for added security.
- The valves are designed for high flow rates with minimum pressure drops.
- Supplied with compression ends complying with BS EN 1252-2 for use with R250 (half hard) copper tube.
- Valves are available with either a red or blue lever for visual indication of hot or cold service.
- Full bore flow improves system efficiency and reduces wear and tear.

INTABALL® Ball Valve - Red Butterfly Handle
AI-373RB2



Ball Valves

BALL VALVES - WATER - DZR - BLUE HANDLE

AI-383B22



FULL
BORE

DZR INTABALL® VALVE - BLUE HANDLE



Ref no	Size	Connections	Body	Pressure		
AI-383B15	15mm	Compression	DZR	25 bar	100	2400
AI-383B22	22mm	Compression	DZR	25 bar	75	1800
AI-383B28	28mm	Compression	DZR	25 bar	40	960

SPECIFICATION

- Temperature range: -20°C - 99°C
- Complies with full bore BS EN 13828:2003



AI-383B15E



FULL
BORE

DZR INTABALL® VALVE WITH EXTENSION STEM - BLUE LEVER HANDLE



Ref no	Size	Connections	Body	Pressure		
AI-383B15E	15mm	Compression	DZR	25 bar	75	1800
AI-383B22E	22mm	Compression	DZR	25 bar	50	1200
AI-383B28E	28mm	Compression	DZR	25 bar	40	960

SPECIFICATION

- Temperature range: -20°C - 99°C
- Complies with full bore BS EN 13828:2003
- Complete with extension stem



AI-383B15L



FULL
BORE

DZR INTABALL® VALVE COMPLETE WITH LOCK - BLUE LEVER HANDLE



Ref no	Size	Connections	Body	Pressure		
AI-383B15L	15mm	Compression	DZR	25 bar	100	2400
AI-383B22L	22mm	Compression	DZR	25 bar	50	1200
AI-383B28L	28mm	Compression	DZR	25 bar	40	960

SPECIFICATION

- Temperature range: -20°C - 99°C
- Complies with full bore BS EN 13828:2003
- Complete with lockable lever handle



AI-383222



FULL
BORE

DZR INTABALL® VALVE - BLUE BUTTERFLY HANDLE



Ref no	Size	Connections	Body	Pressure		
AI-383115	15mm	Compression	DZR	25 bar	100	2400
AI-383222	22mm	Compression	DZR	25 bar	75	1800
AI-383228	28mm	Compression	DZR	25 bar	40	960

SPECIFICATION

- Temperature range: -20°C - 99°C
- Complies with full bore BS EN 13828:2003



BALL VALVES - WATER - DZR - BLUE HANDLE

DZR INTABALL® VALVE WITH EXTENSION STEM - BLUE BUTTERFLY HANDLE



Ref no	Size	Connections	Body	Pressure		
AI-383115E	15mm	Compression	DZR	25 bar	75	1800
AI-383222E	22mm	Compression	DZR	25 bar	50	1200
AI-383228E	28mm	Compression	DZR	25 bar	40	960

FULL BORE



AI-383115E

SPECIFICATION

- Temperature range: -20°C - 99°C
- Complies with full bore BS EN 13828:2003



INTABALL® VALVE - BLUE LEVER HANDLE



Ref no	Size	Connections	Body	Pressure		
AI-373B15 *	15mm	Compression	Brass	25 bar	100	2400
AI-373B22 *	22mm	Compression	Brass	25 bar	50	1200
AI-373B28 *	28mm	Compression	Brass	25 bar	40	960
AI-373B35	35mm	Compression	Brass	16 bar	20	480
AI-373B42	42mm	Compression	Brass	16 bar	10	240
AI-373B54	54mm	Compression	Brass	16 bar	4	96
AI-171B02 *	1/4"	F x F BSP	Brass	50 bar	150	3600
AI-171B03 *	3/8"	F x F BSP	Brass	50 bar	180	4320
AI-171B04 *	1/2"	F x F BSP	Brass	50 bar	100	2400
AI-171B05 *	3/4"	F x F BSP	Brass	50 bar	75	1800
AI-171B06 *	1"	F x F BSP	Brass	40 bar	40	960
AI-171B07 *	1 1/4"	F x F BSP	Brass	25 bar	24	576
AI-171B08 *	1 1/2"	F x F BSP	Brass	16 bar	18	432
AI-171B09 *	2"	F x F BSP	Brass	16 bar	12	288
AI-171B10 *	2 1/2"	F x F BSP	Brass	16 bar	6	144
AI-171B11 *	3"	F x F BSP	Brass	16 bar	4	96
AI-171B12 *	4"	F x F BSP	Brass	16 bar	2	48

FULL BORE



AI-373B22



AI-171B07

SPECIFICATION

- Temperature range: -20°C - 99°C
- Complies with full bore BS EN 13828:2003



BALL VALVES - WATER - BRASS - BLUE HANDLE

AI-373B15E



FULL
BORE

AI-171B02E



INTABALL® LEVER BALL VALVES WITH EXTENSION STEM - BLUE HANDLE



Ref no	Size	Connections	Body	Pressure		
AI-373B15E	15mm	Compression	Brass	25 bar	75	1800
AI-373B22E	22mm	Compression	Brass	25 bar	75	1800
AI-373B28E	28mm	Compression	Brass	25 bar	50	1200
AI-373B35E	35mm	Compression	Brass	16 bar	50	1200
AI-373B42E	42mm	Compression	Brass	16 bar	40	960
AI-373B54E	54mm	Compression	Brass	16 bar	40	960
AI-171B02E	1/4"	F x F BSP	Brass	50 bar	150	3600
AI-171B03E	3/8"	F x F BSP	Brass	50 bar	150	3600
AI-171B04E	1/2"	F x F BSP	Brass	50 bar	100	2400
AI-171B05E	3/4"	F x F BSP	Brass	50 bar	75	1800
AI-171B06E	1"	F x F BSP	Brass	40 bar	50	1200
AI-171B07E	1 1/4"	F x F BSP	Brass	25 bar	50	1200
AI-171B08E	1 1/2"	F x F BSP	Brass	16 bar	40	960
AI-171B09E	2"	F x F BSP	Brass	16 bar	12	288

SPECIFICATION

- Temperature range: -20°C - 99°C
- Complies with full bore BS EN 13828:2003
- Complete with extension stem



AI-373B15L



FULL
BORE

INTABALL® VALVE COMPLETE WITH LOCK - BLUE LEVER HANDLE



Ref no	Size	Connections	Body	Pressure		
AI-373B15L	15mm	Compression	Brass	25 bar	100	2400
AI-373B22L	22mm	Compression	Brass	25 bar	50	1200
AI-373B28L	28mm	Compression	Brass	25 bar	40	960

SPECIFICATION

- Temperature range: -20°C - 99°C
- Complies with full bore BS EN 13828:2003
- Complete with lockable lever handle



BALL VALVES - WATER - BRASS - BLUE HANDLE

INTABALL® VALVE - BLUE BUTTERFLY HANDLE



Ref no	Size	Connections	Body	Pressure		
AI-373115	15mm	Compression	Brass	25 bar	100	2400
AI-373222	22mm	Compression	Brass	25 bar	75	1800
AI-373228	28mm	Compression	Brass	25 bar	40	960
AI-171BB4	1/2"	F x F BSP	Brass	50 bar	100	2400
AI-171BB5	3/4"	F x F BSP	Brass	50 bar	75	1800

FULL
BORE



AI-373115

SPECIFICATION

- Temperature range: -20°C - 99°C
- Complies with full bore BS EN 13828:2003



INTABALL® VALVE WITH EXTENSION STEM - BLUE BUTTERFLY HANDLE



Ref no	Size	Connections	Body	Pressure		
AI-373115E	15mm	Compression	Brass	25 bar	75	1800
AI-373222E	22mm	Compression	Brass	25 bar	50	1200
AI-373228E	28mm	Compression	Brass	25 bar	40	960
AI-171BB4E	1/2"	F x F BSP	Brass	32 bar	100	2400
AI-171BB5E	3/4"	F x F BSP	Brass	25 bar	75	1800

FULL
BORE



AI-373222E

SPECIFICATION

- Temperature range: -20°C - 99°C
- Complies with full bore BS EN 13828:2003
- Complete with extension stem



BALL VALVES - WATER - DZR - RED HANDLE

AI-383R22



FULL
BORE

DZR INTABALL® VALVE - RED HANDLE



Ref no	Size	Connections	Body	Pressure		
AI-383R15	15mm	Compression	DZR	25 bar	100	2400
AI-383R22	22mm	Compression	DZR	25 bar	75	1800
AI-383R28	28mm	Compression	DZR	25 bar	40	960

SPECIFICATION

- Temperature range: -20°C - 99°C
- Complies with full bore BS EN 13828:2003



AI-383R15E



FULL
BORE

DZR INTABALL® VALVE WITH EXTENSION STEM - RED LEVER HANDLE



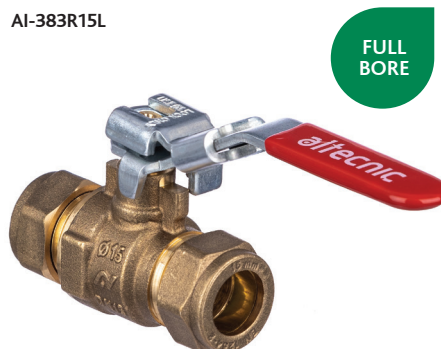
Ref no	Size	Connections	Body	Pressure		
AI-383R15E	15mm	Compression	DZR	25 bar	75	1800
AI-383R22E	22mm	Compression	DZR	25 bar	50	1200
AI-383R28E	28mm	Compression	DZR	25 bar	40	960

SPECIFICATION

- Temperature range: -20°C - 99°C
- Complies with full bore BS EN 13828:2003
- Complete with extension stem



AI-383R15L



FULL
BORE

DZR INTABALL® VALVE COMPLETE WITH LOCK - RED LEVER HANDLE



Ref no	Size	Connections	Body	Pressure		
AI-383R15L	15mm	Compression	DZR	25 bar	100	2400
AI-383R22L	22mm	Compression	DZR	25 bar	50	1200
AI-383R28L	28mm	Compression	DZR	25 bar	40	960

SPECIFICATION

- Temperature range: -20°C - 99°C
- Complies with full bore BS EN 13828:2003
- Complete with lockable lever handle



AI-383RB2



FULL
BORE

DZR INTABALL® VALVE - RED BUTTERFLY HANDLE



Ref no	Size	Connections	Body	Pressure		
AI-383RB5	15mm	Compression	DZR	25 bar	100	2400
AI-383RB2	22mm	Compression	DZR	25 bar	75	1800
AI-383RB8	28mm	Compression	DZR	25 bar	40	960

SPECIFICATION

- Temperature range: -20°C - 99°C
- Complies with full bore BS EN 13828:2003



BALL VALVES - WATER - DZR - RED HANDLE

DZR INTABALL® VALVE WITH EXTENSION STEM - RED BUTTERFLY HANDLE



Ref no	Size	Connections	Body	Pressure		
AI-383RB5E	15mm	Compression	DZR	25 bar	75	1800
AI-383RB2E	22mm	Compression	DZR	25 bar	50	1200
AI-383RB8E	28mm	Compression	DZR	25 bar	40	960

SPECIFICATION

- Temperature range: -20°C - 99°C
- Complies with full bore BS EN 13828:2003



FULL BORE



AI-383RB5E

INTABALL® VALVE - RED LEVER HANDLE



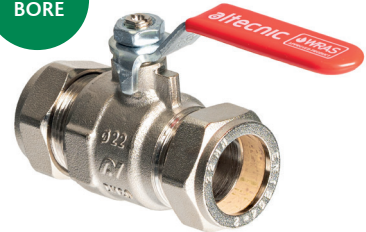
Ref no	Size	Connections	Body	Pressure		
AI-373R15 *	15mm	Compression	Brass	25 bar	100	2400
AI-373R22 *	22mm	Compression	Brass	25 bar	50	1200
AI-373R28 *	28mm	Compression	Brass	25 bar	40	960
AI-373R35	35mm	Compression	Brass	16 bar	20	480
AI-373R42	42mm	Compression	Brass	16 bar	10	240
AI-373R54	54mm	Compression	Brass	16 bar	4	96
AI-171R02 *	1/4"	F x F BSP	Brass	50 bar	150	3600
AI-171R03 *	3/8"	F x F BSP	Brass	50 bar	180	4320
AI-171R04 *	1/2"	F x F BSP	Brass	50 bar	100	2400
AI-171R05 *	3/4"	F x F BSP	Brass	50 bar	75	1800
AI-171R06 *	1"	F x F BSP	Brass	40 bar	40	960
AI-171R07 *	1 1/4"	F x F BSP	Brass	25 bar	24	576
AI-171R08 *	1 1/2"	F x F BSP	Brass	16 bar	18	432
AI-171R09 *	2"	F x F BSP	Brass	16 bar	12	288
AI-171R10 *	2 1/2"	F x F BSP	Brass	16 bar	6	144
AI-171R11 *	3"	F x F BSP	Brass	16 bar	4	96
AI-171R12 *	4"	F x F BSP	Brass	16 bar	2	48

SPECIFICATION

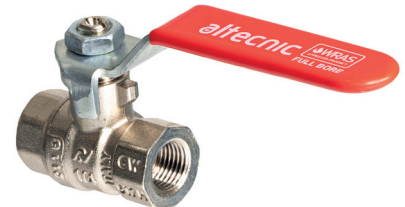
- Temperature range: -20°C - 99°C
- Complies with full bore BS EN 13828:2003



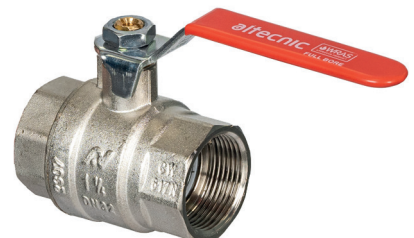
FULL BORE



AI-373R22



AI-171R02



AI-171R07

BALL VALVES - WATER - BRASS - RED HANDLE

AI-373R15E



FULL
BORE

INTABALL® LEVER BALL VALVES WITH EXTENSION STEM - RED HANDLE



Ref no	Size	Connections	Body	Pressure		
AI-373R15E	15mm	Compression	Brass	25 bar	75	1800
AI-373R22E	22mm	Compression	Brass	25 bar	75	1800
AI-373R28E	28mm	Compression	Brass	25 bar	50	1200
AI-373R35E	35mm	Compression	Brass	16 bar	50	1200
AI-373R42E	42mm	Compression	Brass	16 bar	40	960
AI-373R54E	54mm	Compression	Brass	16 bar	40	960
AI-171R02E	1/4"	F x F BSP	Brass	50 bar	150	3600
AI-171R03E	3/8"	F x F BSP	Brass	50 bar	150	3600
AI-171R04E	1/2"	F x F BSP	Brass	50 bar	100	2400
AI-171R05E	3/4"	F x F BSP	Brass	50 bar	75	1800
AI-171R06E	1"	F x F BSP	Brass	40 bar	50	1200
AI-171R07E	1 1/4"	F x F BSP	Brass	25 bar	50	1200
AI-171R08E	1 1/2"	F x F BSP	Brass	16 bar	40	960
AI-171R09E	2"	F x F BSP	Brass	16 bar	12	288

SPECIFICATION

- Temperature range: -20°C - 99°C
- Complies with full bore BS EN 13828:2003
- Complete with extension stem



AI-171R02E



AI-373R15L



FULL
BORE

INTABALL® VALVE COMPLETE WITH LOCK - RED LEVER HANDLE



Ref no	Size	Connections	Body	Pressure		
AI-373R15L	15mm	Compression	Brass	25 bar	100	2400
AI-373R22L	22mm	Compression	Brass	25 bar	50	1200
AI-373R28L	28mm	Compression	Brass	25 bar	40	960

SPECIFICATION

- Temperature range: -20°C - 99°C
- Complies with full bore BS EN 13828:2003
- Complete with lockable lever handle



BALL VALVES - WATER - BRASS - RED HANDLE

INTABALL® BALL VALVES - RED BUTTERFLY HANDLE



Ref no	Size	Connections	Body	Pressure		
AI-373RB5	15mm	Compression	Brass	25 bar	100	2400
AI-373RB2	22mm	Compression	Brass	25 bar	75	1800
AI-373RB8	28mm	Compression	Brass	25 bar	40	960
AI-171RB4	1/2"	F x F BSP	Brass	50 bar	100	2400
AI-171RB5	3/4"	F x F BSP	Brass	50 bar	75	1800

FULL BORE



AI-373RB2

SPECIFICATION

- Temperature range: -20°C - 99°C
- Complies with full bore BS EN 13828:2003



INTABALL® BUTTERFLY BALL VALVES WITH EXTENSION STEM - RED HANDLE



Ref no	Size	Connections	Body	Pressure		
AI-373RB5E	15mm	Compression	Brass	25 bar	75	1800
AI-373RB2E	22mm	Compression	Brass	25 bar	50	1200
AI-373RB8E	28mm	Compression	Brass	25 bar	40	960
AI-171RB4E	1/2"	F x F BSP	Brass	32 bar	50	1200
AI-171RB5E	3/4"	F x F BSP	Brass	25 bar	50	1200

FULL BORE



AI-373RB2E

SPECIFICATION

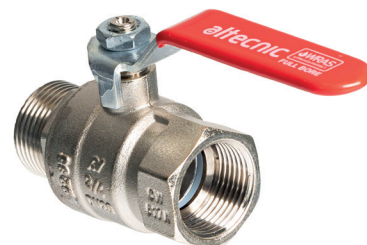
- Temperature range: -20°C - 99°C
- Complies with full bore BS EN 13828:2003
- Complete with extension stem



INTABALL® RED LEVER BALL VALVE



Ref no	Size	Connections	Body	Max Pressure	
AI-856A04	1/2"	M x F BSP	Brass	50 bar	50
AI-856A05	3/4"	M x F BSP	Brass	50 bar	40
AI-856A06	1"	M x F BSP	Brass	40 bar	40
AI-856A07	1 1/4"	M x F BSP	Brass	25 bar	25
AI-856A08	1 1/2"	M x F BSP	Brass	16 bar	18
AI-856A09	2"	M x F BSP	Brass	16 bar	12



AI-856A05



AI-856A09

SPECIFICATION

- Temperature range: -20°C - 99°C
- Complies with full bore BS EN 13828:2003

COMBI BALL VALVES & BALLSTOP

AI-397004



INTABALL® COMBI BALL VALVES



Ref no	Size	Connections	Drainport		
AI-397004	1/2"	F x F BSP	No	50	1200
AI-397104	3/4"	F x F BSP	No	25	600
AI-397115	15mm	Compression	No	50	1200
AI-397122	22mm	Compression	No	25	600
AI-397204	1"	F x F BSP	No	25	600
AI-401005	1/2" x 3/4"	F BSP x swivel	No	25	1200
AI-395004	1/2"	F x F BSP	Yes	50	1200
AI-395104	3/4"	F x F BSP	Yes	25	600
AI-395115	15mm	Compression	Yes	50	1200

SPECIFICATION

- Max working pressure - threaded: 25 bar
Max working pressure - Cu x Cu: 25 bar
- Max working temperature: 120°C
- Strainer mesh size: 400µ - 0.4mm
- Compression ends: BS EN 1254 - 2
- Threaded ends: ISO 228 - 1
- Drain port thread: G1/4"



323040



BALLSTOP



Ref no	Size	Connections	Body	Handle type	
323040	1/2"	F x F BSP	Brass	Butterfly	80
323050	3/4"	F x F BSP	Brass	Butterfly	80
323060	1"	F x F BSP	Brass	Lever	40
323062	1"	F x F BSP	Brass	Butterfly	40
323070	1 1/4"	F x F BSP	Brass	Lever	20
323080	1 1/2"	F x F BSP	Brass	Lever	10
323090	2"	F x F BSP	Brass	Lever	8
332400	1/2"	M x F BSP	Brass	Butterfly	80
333500	3/4" x 3/4"	F x Swivel BSP	Brass	Butterfly	80
334500	3/4" x 3/4"	M x Swivel BSP	Brass	Butterfly	60

SPECIFICATION

- The ballstop range of in-line lever ball valves with an integrated check valve situated within the ball of the valve
- Max working pressure: 16 bar
- Max working temperature: 90°C



UNION BALL VALVES

UNION BALL VALVES



Ref no	Size	Connections	Body	Max Pressure	
124-3201	3/4"	M union x F BSP	Brass	16 bar	60
124-3202	1"	M union x F BSP	Brass	16 bar	30
124-3203	1 1/4"	M union x F BSP	Brass	16 bar	20
124-3204	1 1/2"	M union x F BSP	Brass	16 bar	12



124-3200

SPECIFICATION

- Temperature range: -20°C - 99°C
- Complies with full bore BS EN 13828:2003

INTABALL® LEVER BALL VALVE - GREEN HANDLE



Ref no	Size	Connections	Body	Max Pressure	
124-1041 CST	3/8"	M x M BSP	Brass	40 bar	100
124-1042 CST	1/2"	M x M BSP	Brass	40 bar	100
124-1043 CST	3/4"	M x M BSP	Brass	40 bar	100
124-1044 CST	1"	M x M BSP	Brass	40 bar	100
124-1031 CST	1 1/4"	M BSP	Brass	25 bar	25
124-1032 CST	1 1/2"	M BSP	Brass	16 bar	18
124-1033 CST	2"	M BSP	Brass	16 bar	12



124-1043 CST

SPECIFICATION

- Max Continuous Temperature range: 90°C
- Complies with BS EN 13959
- Working Temperature range: -5 - 90°C



STAINLESS STEEL & FILTER BALL VALVES

W-124-2001



STAINLESS STEEL BALL VALVES



Ref no	Size	Connections	Body	Max Pressure	
W-124-2001	½"	F x F screwed iron	Brass	63 bar	200
W-124-2002	¾"	F x F screwed iron	Brass	63 bar	200
W-124-2003	1"	F x F screwed iron	Brass	50 bar	160
W-124-2004	1 ¼"	F x F screwed iron	Brass	50 bar	100
W-124-2005	1 ½"	F x F screwed iron	Brass	40 bar	100
W-124-2006	2"	F x F screwed iron	Brass	40 bar	50

SPECIFICATION

- Max pressure ½" & ¾": 63 bar
- Max pressure 1" & 1 ¼": 50 bar
- Max pressure 1 ½" & 2": 40 bar

124-6003 CST



FILTER BALL VALVES



Ref no	Size	Connections	Body	Max Pressure		
124-6003 CST *	½"	F x F BSP	Brass	30 bar	84	1008
124-6004 CST	¾"	F x F BSP	Brass	30 bar	64	768
124-6005 CST	1"	F x F BSP	Brass	30 bar	48	576
124-6006 CST	1 ¼"	F x F BSP	Brass	20 bar	16	192
124-6007 CST	1 ½"	F x F BSP	Brass	20 bar	12	144
124-6008 CST	2"	F x F BSP	Brass	20 bar	8	96

* ½" complies with the full bore and the other sizes exceeds the reduced bore diameter circle specified in BS EN 13547.



SPECIFICATION

- Max pressure ½" - 1": 30 bar
- Max pressure 1 ¼" - 2": 20 bar
- Max temperature: 99°C
- Working temp. range: -20 - 100°C
- Strainer mesh size: 500 µ - 0.5 mm
- Threaded ends: ISO 228 - 1

124-9150 CST



ACCESSORIES FOR FILTER BALL VALVE



Ref no	Description	
124-9150 CST	Spare filter 500 micron for ½" 124-6003 CST	10
124-9151 CST	Spare filter 500 micron for ¾" 124-6004 CST	10
124-9152 CST	Spare filter 500 micron for 1" 124-6005 CST	10
124-9153 CST	Spare filter 500 micron for 1 ¼" 124-6006 CST	10
124-9154 CST	Spare filter 500 micron for 1 ½" 124-6007 CST	10
124-9155 CST	Spare filter 500 micron for 2" 124-6008 CST	10

SPECIFICATION

- Strainer mesh size: 500 µ - 0.5 mm

3 WAY BALL VALVES

BALL VALVE WITH M10 SENSOR POCKET



124-1019 CST

Ref no	Size	Connections	Max Pressure	
124-7002 CST	½"	F X F Ball Valves complete with M10 Sensor Pocket	16 bar	20
124-1019 CST	¾"	F X F Ball Valves complete with M10 Sensor Pocket	16 bar	15
124-7001 CST	1"	F X F Ball Valves complete with M10 Sensor Pocket	16 bar	10



SPECIFICATION

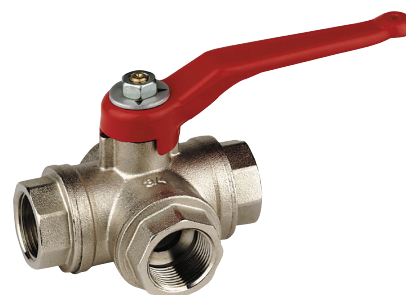
- Min working temperature: - + 5°C
- Max working temperature: - + 90° C
- Max pressure: 16 bar
- Threaded ends: ISO 228 - 1

3 WAY BALL VALVES - L PORT



124-5001 CST

Ref no	Size	Description	Body		
124-5001 CST	¼"	L-pattern 3-way ball valve	Brass	8	96
124-5002 CST	⅜"	L-pattern 3-way ball valve	Brass	12	96
124-5003 CST	½"	L-pattern 3-way ball valve	Brass	8	96
124-5004 CST	¾"	L-pattern 3-way ball valve	Brass	12	96
124-5005 CST	1"	L-pattern 3-way ball valve	Brass	4	192
124-5006 CST	1 ¼"	L-pattern 3-way ball valve	Brass	10	320
124-5007 CST	1 ½"	L-pattern 3-way ball valve	Brass	10	320
124-5008 CST	2"	L-pattern 3-way ball valve	Brass	10	320
125-5009 CST	2 ½"	L-pattern 3-way ball valve	Brass	10	320



SPECIFICATION

- Min working temperature: -10°C
- Max working temperature: +100°C
- Max pressure: 40 bar
- Threaded ends: ISO 228/1

3 WAY BALL VALVES - T PORT



124-5013 CST

Ref no	Size	Description	Body		
124-5010 CST	¼"	T-pattern 3-way ball valve	Brass	10	320
124-5011 CST	⅜"	T-pattern 3-way ball valve	Brass	10	320
124-5012 CST	½"	T-pattern 3-way ball valve	Brass	10	320
124-5013 CST	¾"	T-pattern 3-way ball valve	Brass	10	320
124-5014 CST	1"	T-pattern 3-way ball valve	Brass	2	320
124-5015 CST	1 ¼"	T-pattern 3-way ball valve	Brass	10	180
124-5016 CST	1 ½"	T-pattern 3-way ball valve	Brass	10	180
124-5017 CST	2"	T-pattern 3-way ball valve	Brass	10	180
125-5018 CST	2 ½"	T-pattern 3-way ball valve	Brass	10	180



SPECIFICATION

- Min working temperature: -10°C
- Max working temperature: +100°C
- Max. pressure: 40 bar
- Threaded ends: ISO 228/1

PRESS FIT BALL VALVES

124-8101



FULL
BORE



INTABALL® PRESS FIT LEVER BALL VALVES - RED LEVER



Ref no	Size	Connections	Body	Max Pressure		
124-8101	15mm x 15mm	Copper press fit	Brass	40 bar	80	2560
124-8103	22mm x 22mm	Copper press fit	Brass	40 bar	60	1920
124-8104	28mm x 28mm	Copper press fit	Brass	40 bar	40	1536
124-8105	35mm x 35mm	Copper press fit	Brass	25 bar	20	640
124-8106	42mm x 42mm	Copper press fit	Brass	10 bar	12	384
124-8107	54mm x 54mm	Copper press fit	Brass	10 bar	4	128
124-8108	15mm x 1/2"	Copper press fit x F BSP	Brass	40 bar	80	2560
124-8110	22mm x 3/4"	Copper press fit x F BSP	Brass	40 bar	60	1920
124-8111	28mm x 1"	Copper press fit x F BSP	Brass	40 bar	40	1280
124-8112	35mm x 1 1/4"	Copper press fit x F BSP	Brass	25 bar	20	640

SPECIFICATION

- Anti blow out stem
- Lever operated through 90° with bi-directional resistance
- PTFE body seats for reliable isolation
- M&V press up to 35mm

124-8201



FULL
BORE



INTABALL® PRESS FIT LEVER BALL VALVES - BLUE LEVER



Ref no	Size	Connections	Body	Max Pressure		
124-8201	15mm x 15mm	Copper press fit	Brass	40 bar	80	2560
124-8203	22mm x 22mm	Copper press fit	Brass	40 bar	60	1920
124-8204	28mm x 28mm	Copper press fit	Brass	40 bar	40	1280
124-8205	35mm x 35mm	Copper press fit	Brass	25 bar	20	640
124-8206	42mm x 42mm	Copper press fit	Brass	10 bar	12	384
124-8207	54mm x 54mm	Copper press fit	Brass	10 bar	4	128
124-8208	15mm x 1/2"	Copper press fit x F BSP	Brass	40 bar	80	2560
124-8210	22mm x 3/4"	Copper press fit x F BSP	Brass	40 bar	60	1920
124-8211	28mm x 1"	Copper press fit x F BSP	Brass	40 bar	40	1280
124-8212	35mm x 1 1/4"	Copper press fit x F BSP	Brass	25 bar	20	640

SPECIFICATION

- Anti blow out stem
- Lever operated through 90° with bi-directional resistance
- PTFE body seats for reliable isolation
- M&V press up to 35mm

PRESS FIT BALL VALVES

INTABALL® PRESS FIT LEVER BALL VALVES WITH NYLON STEM EXTENTION



124-8026

Ref no	Size	Connections	Body	Max Pressure		
124-8026	15mm x 15mm	Copper press fit	Brass	40 bar	60	1920
124-8028	22mm x 22mm	Copper press fit	Brass	40 bar	36	1280
124-8029	28mm x 28mm	Copper press fit	Brass	40 bar	30	640
124-8030	35mm x 35mm	Copper press fit	Brass	25 bar	16	640
124-8031	42mm x 42mm	Copper press fit	Brass	10 bar	12	385
124-8032	54mm x 54mm	Copper press fit	Brass	10 bar	8	128

FULL BORE

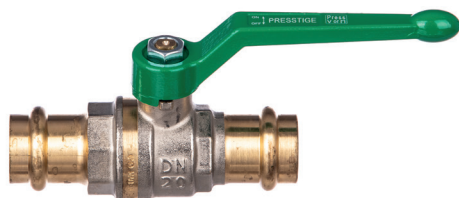


SPECIFICATION

- Anti blow out stem
- The extension with integral Tee handle is condensation proof with high thermal insulation
- PTFE body seats for reliable isolation
- M&V press up to 35mm
- Colour coded caps for the extension

PRESS FIT BALL VALVES

124-8008



FULL
BORE

INTABALL® PRESS FIT LEVER BALL VALVES



Ref no	Size	Connections	Body	Max Pressure		
124-8001	15mm x 15mm	Copper press fit	Brass	40 bar	80	1920
124-8003	22mm x 22mm	Copper press fit	Brass	40 bar	40	1280
124-8004	28mm x 28mm	Copper press fit	Brass	40 bar	32	640
124-8005	35mm x 35mm	Copper press fit	Brass	25 bar	20	640
124-8006	42mm x 42mm	Copper press fit	Brass	10 bar	12	385
124-8007	54mm x 54mm	Copper press fit	Brass	10 bar	4	128
124-8008	15mm x 1/2"	Copper press fit x F BSP	Brass	40 bar	120	1920
124-8010	22mm x 3/4"	Copper press fit x F BSP	Brass	40 bar	60	1280
124-8011	28mm x 1"	Copper press fit x F BSP	Brass	40 bar	48	640
124-8012	35mm x 1 1/4"	Copper press fit x F BSP	Brass	25 bar	30	640

SPECIFICATION



- Anti blow out stem
- Lever operated through 90° with bi-directional resistance
- PTFE body seats for reliable isolation
- M&V press up to 35mm
- V press for 42mm and 54mm

124-8013



FULL
BORE

INTABALL® PRESS FIT BUTTERFLY LEVER BALL VALVES



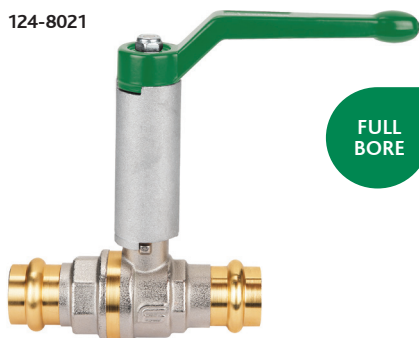
Ref no	Size	Connections	Body	Max Pressure		
124-8013	15mm x 15mm	Copper press fit	Brass	40 bar	80	1920
124-8015	22mm x 22mm	Copper press fit	Brass	40 bar	72	1280
124-8016	28mm x 28mm	Copper press fit	Brass	40 bar	48	640
124-8017	15mm x 1/2"	Copper press fit x F BSP	Brass	40 bar	100	640
124-8019	22mm x 3/4"	Copper press fit x F BSP	Brass	40 bar	72	385
124-8020	28mm x 1"	Copper press fit x F BSP	Brass	40 bar	60	128

SPECIFICATION



- Anti blow out stem
- Compact design with butterfly lever
- PTFE body seats for reliable isolation
- M&V press up to 35mm

124-8021



FULL
BORE

INTABALL® PRESS FIT LEVER BALL VALVES WITH STEM EXTENTION



Ref no	Size	Connections	Body	Max Pressure		
124-8021	15mm x 15mm	Copper press fit	Brass	40 bar	60	1920
124-8023	22mm x 22mm	Copper press fit	Brass	40 bar	36	1280
124-8024	28mm x 28mm	Copper press fit	Brass	40 bar	24	640
124-8025	35mm x 35mm	Copper press fit	Brass	25 bar	12	640

SPECIFICATION

- Anti blow out stem
- Lever operated through 90° with bi-directional resistance
- PTFE body seats for reliable isolation
- M&V press up to 35mm

SERVICE VALVES & DUCTILE IRON BALL VALVES

SERIES 406 - MINI BALL VALVE MXF CHROME PLATED



124-1401 CST

Ref no	Size	Connections	Body
124-1401 CST	1/4"	M x F BSP	Brass

SPECIFICATION

- Max working pressure: 10 bar
- Max Working Temperature: 85°C

NEW



DZR SERVICE VALVE COMPLETE WITH BLACK LEVER HANDLE



EU-002630108

Ref no	Size	Connections	Body	Box	Pallet
EU-002630108	15mm	Compression	Brass	100	1000
EU-002630111	22mm	Compression	Brass	80	1000

SPECIFICATION

- Max working pressure: 10 bar
- Temperature range: -20°C - 99°C



PUSH FIT SERVICE VALVE



AI-SF9086XX

Ref no	Size	Connections	Body	Box	Pallet
AI-SF9086XX	15mm x 1/2"	Pushfit x Swivel	Brass	100	960

SPECIFICATION

- Max working pressure: 10 bar
- Temperature range: -20°C - 99°C



DUCTILE IRON BALL VALVE



124-5100 CST

Ref no	Size	Connections	Body
124-5100 CST	50mm	Flanged	Ductile Iron
124-5101 CST	65mm	Flanged	Ductile Iron
124-5102 CST	80mm	Flanged	Ductile Iron
124-5103 CST	100mm	Flanged	Ductile Iron
124-5104 CST	125mm	Flanged	Ductile Iron
124-5105 CST	150mm	Flanged	Ductile Iron

SPECIFICATION

- Max working pressure between flanges: 16 bar
- Max working temperature end of line: 10 bar
- Temperature range: -10 - 100°C



BALL VALVES - GAS

AI-331115



CE marked
2979

UK
CA
0086

AI-033103



CE marked
2979

UK
CA
0086

INTABALL® VALVE – YELLOW LEVER HANDLE



Ref no	Size	Connections	Body		
AI-331115	15mm	Compression	Brass	100	2400
AI-331122	22mm	Compression	Brass	50	1200
AI-331128	28mm	Compression	Brass	40	960
AI-331135	35mm	Compression	Brass	20	480
AI-331142	42mm	Compression	Brass	10	432
AI-331154	54mm	Compression	Brass	4	240
AI-033103	3/8"	F x F BSP	Brass	120	2880
AI-033104	1/2"	F x F BSP	Brass	100	2400
AI-033105	3/4"	F x F BSP	Brass	60	1440
AI-033106	1"	F x F BSP	Brass	36	864
AI-033107	1 1/4"	F x F BSP	Brass	20	480
AI-033108	1 1/2"	F x F BSP	Brass	18	432
AI-033109	2"	F x F BSP	Brass	10	240
AI-331A05	3/4"	M x F BSP	Brass	60	1440
AI-331A06	1"	M x F BSP	Brass	36	864

The INTABALL® gas range of full bore valves has been designed and built to meet the requirements of BS EN 331: 2015

SPECIFICATION

- Max working pressure: 10 bar
- Temperature range: -20°C - 60°C
- Gas families: 1st, 2nd & 3rd



BALL VALVES - GAS

INTABALL® VALVE WITH EXTENSION STEM - YELLOW LEVER HANDLE



AI-033104E

Ref no	Size	Connections	Body	Max Pressure		
AI-331115E	15mm	Compression	Brass	5 bar	100	2400
AI-331122E	22mm	Compression	Brass	5 bar	50	1200
AI-331128E	28mm	Compression	Brass	5 bar	40	960
AI-331135E	35mm	Compression	Brass	5 bar	20	480
AI-331142E	42mm	Compression	Brass	5 bar	10	432
AI-331154E	54mm	Compression	Brass	5 bar	4	240
AI-033103E	3/8"	F x F BSP	Brass	5 bar	120	2880
AI-033104E	1/2"	F x F BSP	Brass	5 bar	100	2400
AI-033105E	3/4"	F x F BSP	Brass	5 bar	60	1440
AI-033106E	1"	F x F BSP	Brass	5 bar	36	864
AI-033109E	2"	F x F BSP	Brass	5 bar	10	240
AI-331A03E	3/8"	M x F BSP	Brass	5 bar	120	2880
AI-331A04E	1/2"	M x F BSP	Brass	5 bar	100	2400
AI-331A05E	3/4"	M x F BSP	Brass	5 bar	60	1440
AI-331A06E	1"	M x F BSP	Brass	5 bar	36	864



CE marked

UK
CA

2979

0086

The INTABALL® gas range of full bore valves has been designed and built to meet the requirements of BS EN 331: 2015

SPECIFICATION

- Max working pressure: 5 bar
- Temperature range: -20°C - 60°C
- Gas families: 1st, 2nd & 3rd
- Complete with extension stem



BALL VALVES - GAS

AI-331115L

FULL
BORE



CE marked UK
2979 0086

INTABALL® VALVE COMPLETE WITH LOCK - YELLOW LEVER HANDLE



Ref no	Size	Connections	Body	Max Pressure		
AI-331115L	15mm	Compression	Brass	25 bar	100	2400
AI-331122L	22mm	Compression	Brass	25 bar	50	1200
AI-331128L	28mm	Compression	Brass	25 bar	40	960

SPECIFICATION

- Temperature range: -20°C - 99°C
- Complies with full bore BS EN 13828:2003
- Complete with lockable lever handle



AI-331Y22



CE marked UK
2979 0086

INTABALL® VALVE - YELLOW BUTTERFLY HANDLE



Ref no	Size	Connections	Body	Max Pressure		
AI-331Y15	15mm	Compression	Brass	5 bar	100	2400
AI-331Y22	22mm	Compression	Brass	5 bar	75	1800
AI-331Y28	28mm	Compression	Brass	5 bar	40	960

SPECIFICATION

- Temperature range: -20°C - 99°C
- Complies with full bore BS EN 13828:2003



AI-331Y22E



CE marked UK
2979 0086

BUTTERFLY BALL VALVES WITH EXTENSION STEM - YELLOW HANDLE



Ref no	Size	Connections	Body	Max Pressure		
AI-331Y15E	15mm	Compression	Brass	5 bar	100	2400
AI-331Y22E	22mm	Compression	Brass	5 bar	75	1800
AI-331Y28E	28mm	Compression	Brass	5 bar	40	960

SPECIFICATION

- Temperature range: -20°C - 99°C
- Complies with full bore BS EN 13828:2003
- Complete with extension stem



PUMP BALL VALVES

GATE TYPE PUMP VALVE



AI-0004A0828CL

Ref no	Size	Connections		
AI-0004A0828CL	28mm x 1 1/2"	Compression x swivel F	50	1600



SPECIFICATION

- Max working pressure: 10 bar
- Max working temperature: 85°C

BALL TYPE PUMP VALVE



AI-03740508

Ref no	Size	Connections	
AI-03740508	22mm x 1 1/2"	Compression x swivel F	50
AI-03740510	28mm x 1 1/2"	Compression x swivel F	50



SPECIFICATION

- Max working pressure: 10 bar
- Max working temperature: 85°C

ISOLATION BALL VALVES



124-1030 CST

Ref no	Size	Connections
124-1024 CST	1/2" x 15mm	Compression x swivel F
124-1022 CST	3/4" x 22mm	Compression x swivel F
124-1030 CST	22mm x 1"	Compression x swivel F
124-1035 CST	1" x 28mm	Compression x swivel F



SPECIFICATION

- Maximum working pressure: 10 Bar
- Maximum working temperature: 100°C

UK
CA



Safety Relief Valves

Safety relief valves are typically used for controlling pressure on boilers in heating systems, on stored hot water cylinders in domestic hot water systems, and in water systems generally. When the calibrated pressure is reached, the valve opens and, by means of the discharge to atmosphere, prevents the pressure of the system from reaching levels which would be dangerous for the boiler and the components in the system itself.

RANGE OVERVIEW

- Size ranges from ½" to 1 ¼"
- Pressure up to 10 bar
- With and without gauge
- WRAS and Kiwa UK approved products available
- Domestic and commercial applications

Find out more
about Safety Relief
Valves here





Series 314 - Safety Relief Valves
A314437 CST



CE marked



UK
CA

Safety Relief
Valves

SAFETY RELIEF VALVES - SERIES 311 & 312

311430



CE marked UK CA
2797 0086



SERIES 311 - SAFETY RELIEF VALVES



Ref no	Size	Connections	Pressure	Gauge		
311415	1/2" x 1/2"	F x F BSP	1.5 bar	No	50	
311425	1/2" x 1/2"	F x F BSP	2.5 bar	No	50	
311430	1/2" x 1/2"	F x F BSP	3 bar	No	50	
311435	1/2" x 1/2"	F x F BSP	3.5 bar	No	50	
311450	1/2" x 1/2"	F x F BSP	5 bar	No	50	
311460	1/2" x 1/2"	F x F BSP	6 bar	No	50	
311470	1/2" x 1/2"	F x F BSP	7 bar	No	50	
311480	1/2" x 1/2"	F x F BSP	8 bar	No	50	
311525	3/4" x 3/4"	F x F BSP	2.5 bar	No	50	
311530	3/4" x 3/4"	F x F BSP	3 bar	No	50	
311560	3/4" x 3/4"	F x F BSP	6 bar	No	50	
311570	3/4" x 3/4"	F x F BSP	7 bar	No	50	
311580	3/4" x 3/4"	F x F BSP	8 bar	No	50	

SPECIFICATION

- Medium: Water and air
- Temperature range: 5°C - 110°C
- Set pressure range: 1.5 - 8 bar
- Max working pressure (static): 10 bar
- PED category: IV

312430



CE marked UK CA
2797 0086



SERIES 312 - SAFETY RELIEF VALVES



Ref no	Size	Connections	Pressure	Gauge		
312405 CST	1/2" x 1/2"	M x F BSP	4 bar	No	50	1600
312020 CST	1/2" x 1/2"	F x F BSP	10 bar	No	44	2904
312425	1/2" x 1/2"	M x F BSP	2.5 bar	No	50	2000
312430	1/2" x 1/2"	M x F BSP	3 bar	No	50	2000
312460	1/2" x 1/2"	M x F BSP	6 bar	No	50	2000
312470	1/2" x 1/2"	M x F BSP	7 bar	No	50	2000
312480	1/2" x 1/2"	M x F BSP	8 bar	No	50	2000
A312401 CST	1/2" x 1/2"	Pushfit x F BSP	3 bar	No	65	2000
A312438 CST	1/2" x 1/2"	Pushfit x M BSP	3 bar	No	65	3696

SPECIFICATION

- Medium: Water and air
- Temperature range: 5°C - 110°C
- Set pressure range: 2.5 - 10 bar
- Max working pressure (static): 10 bar
- PED category: IV

SAFETY RELIEF VALVES - SERIES 313 & 314

SERIES 313 - SAFETY RELIEF VALVES



313430

Ref no	Size	Connections	Pressure	Gauge		
313425	1/2" x 1/2"	F x F BSP	2.5 bar	Yes	50	1800
313430	1/2" x 1/2"	F x F BSP	3 bar	Yes	50	1800
313460	1/2" x 1/2"	F x F BSP	6 bar	Yes	50	1800
313470	1/2" x 1/2"	F x F BSP	7 bar	Yes	50	1800
313480	1/2" x 1/2"	F x F BSP	8 bar	Yes	50	1800
313525	3/4" x 3/4"	F x F BSP	2.5 bar	Yes	50	1800
313530	3/4" x 3/4"	F x F BSP	3 bar	Yes	50	1800
313560	3/4" x 3/4"	F x F BSP	6 bar	Yes	50	1800
313570	3/4" x 3/4"	F x F BSP	7 bar	Yes	50	1800
313580	3/4" x 3/4"	F x F BSP	8 bar	Yes	50	1800



CE marked UK CA
2797 0086



SPECIFICATION

- Medium: Water and air
- Temperature range: 5°C - 110°C
- Set pressure range: 2.5 - 8 bar
- Max working pressure (static): 10 bar
- PED category: IV

SERIES 314 - SAFETY RELIEF VALVES



A314437 CST

Ref no	Size	Connections	Pressure	Gauge		
314425	1/2" x 1/2"	M x F BSP	2.5 bar	Yes	50	1800
314430	1/2" x 1/2"	M x F BSP	3 bar	Yes	50	1800
314460	1/2" x 1/2"	M x F BSP	6 bar	Yes	50	1800
314480	1/2" x 1/2"	M x F BSP	8 bar	Yes	50	1800
A314437 CST	1/2" x 1/2"	M x F BSP	3 bar	Port only	56	3696



CE marked UK CA
2797 0086



SPECIFICATION

- Medium: Water and air
- Temperature range: 5°C - 110°C
- Set pressure range: 2.5 - 8 bar
- Max working pressure (static): 10 bar
- PED category: IV

SAFETY RELIEF VALVES - SERIES 513 & 514

513425



CE marked
2797

UK
CA
0086

SERIES 513 - SAFETY RELIEF VALVES



Ref no	Size	Connections	Pressure		
513420	1/2" x 1/2"	F x F BSP	2.0 bar	50	1800
513425	1/2" x 1/2"	F x F BSP	2.5 bar	50	1800
513430	1/2" x 1/2"	F x F BSP	3 bar	50	1800
513460	1/2" x 1/2"	F x F BSP	6 bar	50	1800
513470	1/2" x 1/2"	F x F BSP	7 bar	50	1800
513480	1/2" x 1/2"	F x F BSP	8 bar	50	1800
513620	1" x 1 1/4"	F x F BSP	2.0 bar	25	1800
513625	1" x 1 1/4"	F x F BSP	2.5 bar	25	1800
513630	1" x 1 1/4"	F x F BSP	3 bar	25	1800
513635	1" x 1 1/4"	F x F BSP	3.5 bar	25	1800
513660	1" x 1 1/4"	F x F BSP	6 bar	25	1800
513670	1" x 1 1/4"	F x F BSP	7 bar	25	1800
513680	1" x 1 1/4"	F x F BSP	8 bar	25	1800
513725	1 1/4" x 1 1/2"	F x F BSP	2.5 bar	10	1800
513730	1 1/4" x 1 1/2"	F x F BSP	3 bar	8	1800
513760	1 1/4" x 1 1/2"	F x F BSP	6 bar	10	1800
513770	1 1/4" x 1 1/2"	F x F BSP	7 bar	10	1800
513780	1 1/4" x 1 1/2"	F x F BSP	8 bar	10	1800

SPECIFICATION

- Medium: Water and air
- Temperature range: 5°C - 110°C
- Set pressure range: 2 - 8 bar
- Max working pressure (static): 10 bar
- PED category: IV

514425



CE marked
2797

UK
CA
0086

SERIES 514 - SAFETY RELIEF VALVES



Ref no	Size	Connections	Pressure		
514425	1/2" x 1/2"	M x F BSP	2.5 bar	50	1800
514460	1/2" x 1/2"	M x F BSP	6 bar	50	1800
514420	1/2" x 1/2"	M x F BSP	2 bar	50	1800
514430 CST	1/2" x 1/2"	M x F BSP	3 bar	50	1800

SPECIFICATION

- Medium: Water and air
- Temperature range: 5°C - 110°C
- Set pressure range: 2 - 6 bar
- Max working pressure (static): 10 bar
- PED category: IV

SAFETY RELIEF VALVES – SERIES 531 & SAFETY GROUP

SERIES 531 - SAFETY RELIEF VALVES



Ref no	Size	Connections	Pressure		
531460	½" x ¾"	F x F BSP	6 bar *	50	1800
531560	¾" x 1"	F x F BSP	6 bar *	50	1800
531661 CST **	1" x 1 ¼"	F x F BSP	6 bar *	50	1800
531760	1 ¼" x 1 ½"	F x F BSP	6 bar *	50	1800

* other setting available.

For potable water systems.

SPECIFICATION

- Medium: Water and air
- Temperature range: 5°C - 110°C
- Max working pressure (static): 6 bar
- PED category: IV
- Certified to EN 1491



531560

CE marked

UK
CA

2797

0086

INLINE SAFETY VALVE SET



Ref no	Size	Connections	Safety Relief Valve Pressure
528716	15mm	Compression	6 bar

The Altecnic 528716 safety group is a monobloc manifold which contains a pressure relief valve set at 6 bar, a single check valve cartridge and spherical ball valve all within a DZR alloy body.



528716

CE marked

UK
CA

2797

0086

SPECIFICATION

- Maximum working pressure: 16 Bar
- Maximum working temperature: 85°C
- Conforms to BS EN 13959

Mechanical Thermostats

Altecnic offer a range of mechanical thermostats providing you with solutions for temperature control.

RANGE OVERVIEW

- Thermometers
- Thermostats (TR2, TRZ, LS1, LS3 Ranges)
- Thermo-manometers
- Encased dual thermostat
- Room thermostats
- Cylinder thermostat

TR2

Adjustable control thermostat, measuring temperature through a liquid filled sensing element with single pole double throw contacts. SPDT contacts, usually used to adjust the temperature of boilers, electric radiators, ovens, washing machines and other various applications. The sensing bulb may be supplied with pocket or fitting for liquid sealing.

TRZ

Two stage, adjustable control thermostat, measuring temperature through a liquid filled sensing element with single pole double throw contacts. SPDT contacts, usually used to adjust the temperature of boilers, electric radiators, ovens, washing machines and other various applications. The sensing bulb may be supplied with pocket or fitting for liquid sealing. It can be equipped with a mechanical device for contacts opening.

LS1/LS3

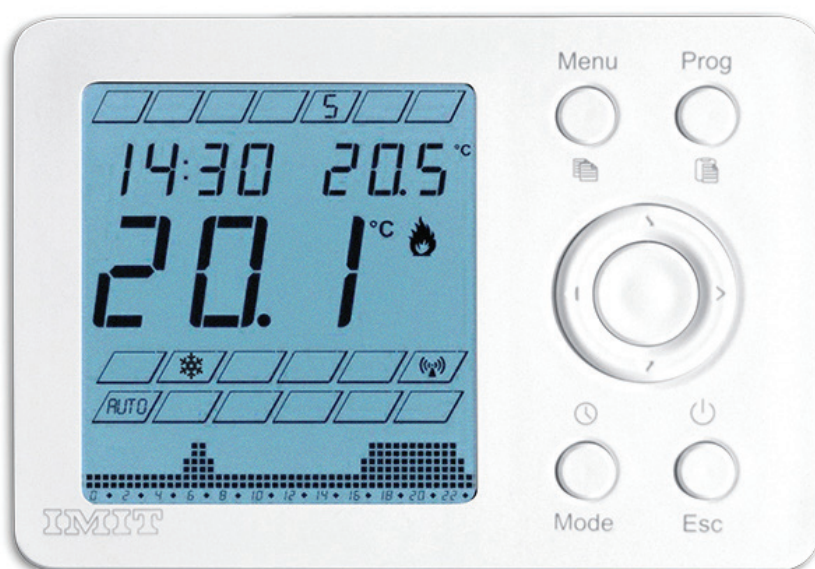
Safety limit thermostat, measuring temperature through a liquid filled sensing element with single pole double throw contacts. SPDT contacts, manual or automatic reset, usually used to limit the temperature in boilers, electric radiators, ovens, washing machines and other various applications when a maximum safety temperature is not to be exceeded. The sensing bulb may be supplied with pocket or fitting for liquid sealing.

Thermometers

Thermometer with liquid filled sensing bulb. Particularly suitable for boilers, refrigerators, catering equipment and household appliances. Available in different bodies and options: capillary length, bulb dimension, custom made dial.

Programmable Thermostat
501-0007

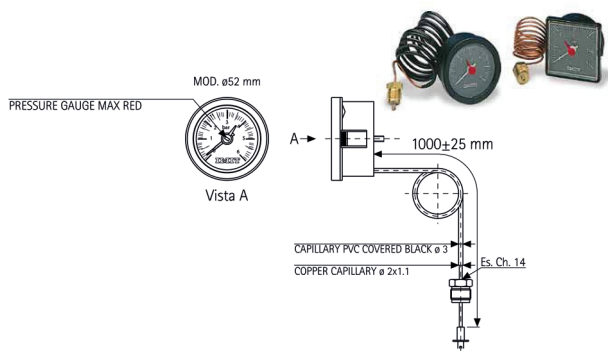
CE marked UK
CA



Mechanical
Thermostats

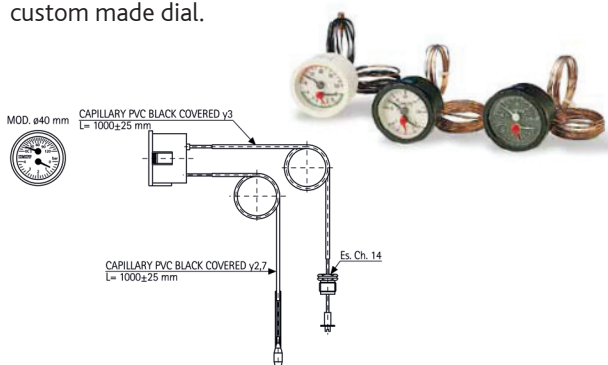
Pressure Gauges

Pressure gauge with capillary. Particularly suitable for boilers, steam cleaners and household appliances. Available in different bodies and options: capillary length, bulb dimension, custom made dial.



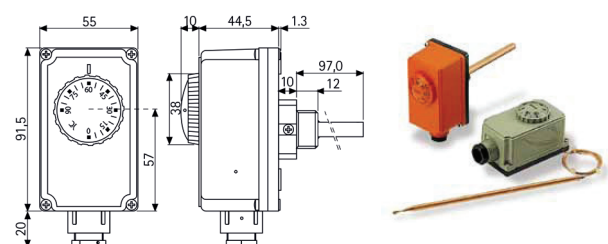
Temperature Pressure Gauges

Temperature and pressure gauge with liquid filled sensing bulb (thermometer) and capillary with quick coupling (pressure). Particularly suitable for boilers and household appliances. Available in different bodies and options: capillary length, bulb dimension, custom made dial.



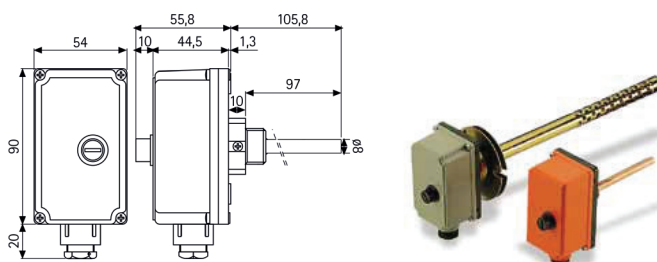
TC2

Immersion thermostat, measuring temperature through a liquid filled sensing element. SPDT contacts, complete with water proof protection pocket. The thermostat, usually used to measure temperature on the primary heating pipe circuit is particularly suitable for automatic adjustment of boilers, pumps and other various applications. It's available also in capillary version. Approvals: ENEC, DIN, INOIL, conformity to PED standards.



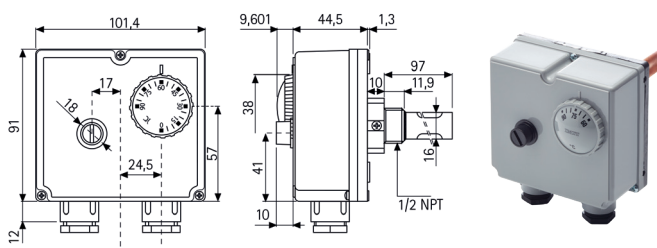
LSC1

Immersion thermostat, measuring temperature through a liquid filled sensing element. Single pole contacts, safety limiter with manual or automatic reset and failsafe protection safety in the event of capillary breakage complete with water proof protection pocket. The thermostat, usually used to measure temperature on the primary heating pipe circuit is particularly suitable for heating plants and for all the applications when a maximum temperature is not to be exceeded. Approvals: ENEC, DIN, ISPEL, conformity to PED standards.



TLSC

Encased immersion double thermostat, single pole contacts, liquid expansion sensing elements, works as temperature adjuster and limiter with manual reset (TLSC) or automatic reset (TLSC/A) and failsafe protection in the event of capillary breakage. It comes complete with protection pocket. Approvals: ENEC, DIN, INOIL, conformity to PED standards.



MECHANICAL THERMOSTATS

ROOM THERMOSTATS



Ref no	Temp	
IM-100077	5/30°C	20

SPECIFICATION

- Wall mountable

CE marked UK CA



IM-100077

SURFACE CONTACT THERMOSTATS



Ref no	Temp	
IM-BRC/545830	20/90°C	50

SPECIFICATION

- IP rating: 20
- Compact design
- Strap available under code IM-003951

CE marked UK CA



IM-BRC/545830

SINGLE IMMERSION THERMOSTAT - 1/2" POCKET ADJUSTABLE



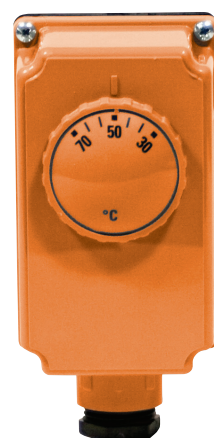
Ref no	Temp	Pocket Size	Capillary		
IM-TC2/542470	0/90°C	1/2"	100mm	20	600

Single control thermostat with case.

SPECIFICATION

- IP rating: 40
- Single pole double thread
- Complete with 1/2" pocket
- Max bulb temperature: 125°C

CE marked UK CA



IM-TC2/542470

DUAL IMMERSION THERMOSTAT - 1/2" POCKET X 120MM PROBE



Ref no	Temp	Pocket Size		
IM-TLSC/542816	60/90°C	1/2" X 120mm	20	400

High limit thermostat with control thermostat in a case ideal for fitting on unvented cylinders or boilers.

SPECIFICATION

- IP rating: 40
- Complete with 1/2" pocket
- Max bulb temperature: 150°C
- High limit: 90/110°C

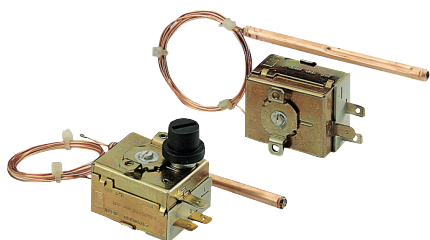
CE marked UK CA



IM-TLSC/542816

MECHANICAL THERMOSTATS

IM-LS1/541510



CE marked UK CA

SAFETY LIMIT THERMOSTATS



Ref no	Temp	Capillary		
IM-LS1/541510	90/110°C	1,000mm	100	

SPECIFICATION

- Max bulb temperature: 125°C
- Bulb diameter 95mm max, 65mm min
- Capillary length 1,000mm
- Single pole double thread

626600



CE marked

FLOW SWITCH FOR HEATING AND AIR CONDITIONING SYSTEMS

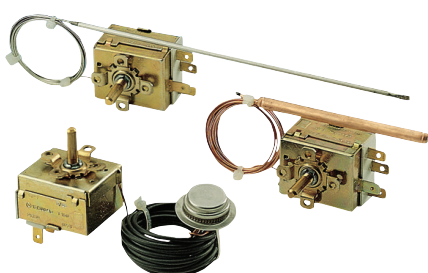


Ref no	Description
626600	Flow switch for heating and air conditioning systems

SPECIFICATION

- Max working pressure: 10 bar
- Working temperature range: -30 to 120°C

IM-TR2/540010



CE marked UK CA

CONTROL THERMOSTATS



Ref no	Temp	Capillary	100	2400
IM-TR2/540010	0/90°C	1,000mm	100	2400
IM-TR2/540020	0/300°C	1,000mm	100	2400
IM-TR2/540030	0/40°C	1,000mm	100	2400
IM-TR2/540043	-30/+34.5°C	1,000mm	100	2400
IM-TR2/540140	64/210°C	1,000mm	100	2400
IM-TR2/540160	0/120°C	1,000mm	100	2400

Adjustable thermostat ideal for fitting inside casings to prevent live connections being touched as they are exposed.

SPECIFICATION

- Panel mounting, liquid-filled capillary and sensing element (not including knobs and bezels)
- Capillary length: 1,000mm
- Single pole double throw

MECHANICAL THERMOSTATS

IMMERSION CONTROL THERMOSTAT



IM-TC2/542450

Ref no	Size	Capillary	Description		
IM-TC2/542450	1/2"	97mm	0°/90°C adjustable - grey	20	600

Single control thermostat with case and temperature range from 0 to 90°C.

CE marked UK CA

SPECIFICATION

- IP rating: 40
- Compact design
- Complete with 1/2" pocket
- Max bulb temperature: 125°C



LIMIT THERMOSTAT



IM-LSC1/543039

Ref no	Size	Capillary	Description		
IM-LSC1/543039	1/2"	95mm	80°C limit - No pocket	20	600

Thermostat with case and cap for external fitting on boilers.

CE marked UK CA



DUAL IMMERSION THERMOSTAT



IM-TLSC/542902

Ref no	Size	Description		
IM-TLSC/542902	1/2"	25/65°C adjustable & 80°C limit - white	20	400

Thermostat with case for fitting on unvented cylinders or boilers.

CE marked UK CA

SPECIFICATION

- IP rating: 40
- Max bulb temperature: 150°C
- No pocket



PROGRAMMABLE THERMOSTAT



501-0007

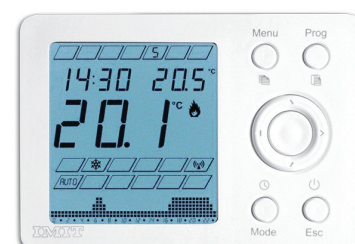
Ref no	Description
501-0007	Digital thermostat
501-1100	Digital thermostat

Weekly wall-mounted programmable thermostat with RF radio receiver.

CE marked UK CA

SPECIFICATION

- Seven day programmer



Gauges

Monitoring of any system is vital to system commissioning and maintenance. The Altecnic range of pressure, temperature and combined gauges allows for multiple connection options and installation needs.

RANGE OVERVIEW

- Available in 50mm to 80mm diameter
- Back, offset back, centre back and bottom connections
- Domestic and commercial applications

Code	Diameter (Ø mm)	Connections (size/position)	Pressure (bar)	Temperature (°C)
WI-557104	50	¼" back	✓ 0 - 4	n/a
WI-557106	50	¼" back	✓ 0 - 6	n/a
WI-557204	50	¼" offset back	✓ 0 - 4	n/a
WI-557304	50	¼" bottom	✓ 0 - 4	n/a
WI-557306	50	¼" bottom	✓ 0 - 6	n/a
WI-557310	50	¼" bottom	✓ 0 - 10	n/a
WI-557410	63	¼" back	✓ 0 - 10	n/a
503040	80	½" centre back	✓ 0 - 4	✓ 0 - 120
503060	80	½" centre back	✓ 0 - 6	✓ 0 - 120
503140	80	½" bottom	✓ 0 - 4	✓ 0 - 120
503160	80	½" bottom	✓ 0 - 6	✓ 0 - 120
688000	80	½" centre back	n/a	✓ 0 - 120
688010	80	½" centre back	n/a	✓ 0 - 120
688100	80	½" bottom	n/a	✓ 0 - 120

Temperature Gauges
688000



Gauges

GAUGES

WI-557104



PRESSURE GAUGES 50MM Ø DIAL



Ref no	Size	Connections	Pressure		
WI-557104	50mm Ø dial	1/4" back connection	0 - 4 bar	150	3600
WI-557106	50mm Ø dial	1/4" back connection	0 - 6 bar	150	3600
WI-557204	50mm Ø dial	1/4" back connection	0 - 4 bar	150	3600
WI-557304	50mm Ø dial	1/4" bottom connection	0 - 4 bar	150	3600
WI-557306	50mm Ø dial	1/4" bottom connection	0 - 6 bar	150	3600
WI-557310	50mm Ø dial	1/4" bottom connection	0 - 10 bar	150	3600

SPECIFICATION

- 50mm dial, ABS black case with red pointer
- 1/4" BSP connection
- Working temperature: -20°C to +90°C



WI-557410



PRESSURE GAUGES 63MM Ø DIAL



Ref no	Size	Connections	Pressure		
WI-557410	63mm Ø dial	1/4" back connection	0 - 10 bar	150	3600

SPECIFICATION

- 63mm dial, ABS black case with red pointer
- 1/4" BSP connection
- Working temperature: -20°C to +80°C



503040



TEMPERATURE AND PRESSURE GAUGES



Ref no	Size	Connections	Pressure	Temperature		
503040	80mm Ø dial	1/2" back connection	0 - 4 bar	0-120°C	10	3600
503060	80mm Ø dial	1/2" back connection	0 - 6 bar	0-120°C	10	3600
503140	80mm Ø dial	1/2" bottom connection	0 - 4 bar	0-120°C	20	3600
503160	80mm Ø dial	1/2" bottom connection	0 - 6 bar	0-120°C	20	3600

SPECIFICATION

- 1/2" central back connection
- With shut-off pocket
- Ø 80 mm
- Accuracy class: - temperature gauge UNI 2 - pressure gauge UNI 2,5

GAUGES

TEMPERATURE GAUGES



Ref no	Size	Connections	Probe	Temperature		
688000	80mm Ø dial	½" back connection	45mm probe length	0-120°C	10	720
688010	80mm Ø dial	½" back connection	100mm probe length	0-120°C	5	720
688100	80mm Ø dial	½" bottom connection	45mm probe length	0-120°C	10	720



688000

SPECIFICATION

- ½" central back connection
- With pocket
- Ø 80 mm
- Accuracy class: UNI 2

DIGITAL HAND HELD PRESSURE GAUGE



Ref no	Description		
PVADG	Digital hand held pressure gauge	20	-



PVADG

Backflow Prevention

There are legal requirements regulating water installations in domestic, commercial and health care premises. A backflow prevention device is used to protect potable water supplies from being contaminated or polluted.

RANGE OVERVIEW

Available in the range:

- RPZ valves
- Double check valves
- Single check valves
- Non-return valves
- Foot Filters
- Vacuum Breakers
- Tundishes

LEGISLATION

There are legal requirements regulating water installations in domestic, commercial and healthcare premises. The legislation which governs water installations within private premises is set out in:

- The Water Industry Act 1991
- The Water Supply (Water Fittings) Regulations 1999
- The Water Byelaws 2000, Scotland
- European Standard / British Standard 1717

To prevent the contamination of the wholesome water supply system, the Water Regulations require backflow protection devices to be installed at or near to all points where water is to be drawn off for use.

RPZ Valves
570005



Backflow
Prevention

FLUID CATEGORIES

FLUID CATEGORY 1

Wholesome water supplied by the undertaker and complying with the requirements made under section 67 of the Water industry Act 1991/ the Water Supply (Water Quality) (Scotland) Regulations 1990 and any amendment.

Description given in Schedule 1: of the Water Supply (Water Fittings) Regulations and Scottish Water Byelaws

FLUID CATEGORY 2

Water in fluid category 1 whose aesthetic quality is impaired owing to -

- a change in its temperature, or
- the presence of substances or organisms causing a change in its taste, odour or appearance, including water in hot water distribution systems.

Description given in Schedule 1: of the Water Supply (Water Fittings) Regulations and Scottish Water Byelaws

FLUID CATEGORY 3

Fluid which represents a slight health hazard because of the concentration of substances of low toxicity, including any fluid which contains -

- ethylene glycol, copper sulphate solution or similar chemical additives, or
- sodium hypochlorite (chlorox and common disinfectants)

Description given in Schedule 1: of the Water Supply (Water Fittings) Regulations and Scottish Water Byelaws

FLUID CATEGORY 4

Fluid which represents a significant health hazard because of the concentration of toxic substances, including any fluid which contains -

- chemical, carcinogenic substances or pesticides (including insecticides and herbicides), or
- Environmental organisms of potential health significance

Description given in Schedule 1: of the Water Supply (Water Fittings) Regulations and Scottish Water Byelaws

FLUID CATEGORY 5

Fluid which represents a serious health hazard because of the concentration of pathogenic organisms, radioactive or very toxic substances, including any fluid which contains -

- faecal material or other human waste:
- butchery or other animal waste: or
- pathogens from any other source

Find out more
about backflow
prevention on our
youtube channel



BACKFLOW PREVENTION - RPZ VALVES

RPZ VALVES

Ref no	Size	Connections	Pressure	
574040 †	1/2"	M x M BSP	10 bar	84
574050 †	3/4"	M x M BSP	10 bar	84
574600 †	1"	M x M BSP	10 bar	84
574700	1 1/4"	M x M BSP	10 bar	84
574800	1 1/2"	M x M BSP	10 bar	32
574008 * †	1 1/2"	M	10 bar	32
574900	2"	M x M BSP	10 bar	32
575005	DN50	Flanged PN16	10 bar	18
575006	DN65	Flanged PN16	10 bar	18
575008	DN80	Flanged PN16	10 bar	6
575010	DN100	Flanged PN16	10 bar	6

SPECIFICATION

- Max pressure at inlet: 10 bar
- Max working temperature: 65°C
- Complete list of spares available

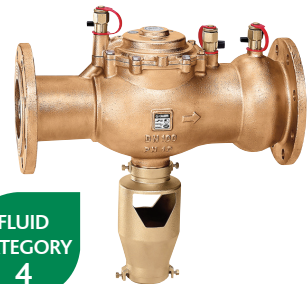


FLUID
CATEGORY
4



574040

FLUID
CATEGORY
4



575010

RPZ VALVES - COMPLETE ASSEMBLIES

Ref no	Size	Connections	Pressure
570004	1/2"	F x F BSP	10 bar
570005	3/4"	F x F BSP	10 bar
570006	1"	F x F BSP	10 bar
570007	1 1/4"	F x F BSP	10 bar
570008	1 1/2"	F x F BSP	10 bar
570009	2"	F x F BSP	10 bar

The Altecnic range of BA type backflow prevention devices designed for applications in water distribution systems to prevent back siphonage and back flow in fluid category 4 applications.

SPECIFICATION

- Max pressure at inlet: 10 bar
- Max working temperature: 65°C
- Complete list of spares available
- Includes RPZ, isolation valve & strainer

FLUID
CATEGORY
4



570005

RPZ VALVES

Ref no	Size	Connections	Pressure
580040	DN15	1/2" M	10 bar
580050	DN20	3/4" M	10 bar
580060	DN25	1" M x M BSP	10 bar
580070	DN32	1 1/4" M x M BSP	10 bar

SPECIFICATION

- Backflow preventer with multifunction geometry
- BA type
- Dezincification resistant alloy body
- Threaded union connections
- For linear installation on horizontal or vertical pipes
- Complete with strainer at the inlet
- Max working temperature: 65°C
- Certified to BS EN 12729 standard



FLUID
CATEGORY
4



580050

BACKFLOW PREVENTION - DOUBLE CHECK VALVES

AI-903020



DOUBLE CHECK VALVES - ECOFIL®



Ref no	Size	Connections	Pressure		
AI-903015	1/2"	F x F BSP	10 bar	210	5670
AI-903020	3/4"	F x F BSP	10 bar	120	3240
AI-903025	1"	F x F BSP	10 bar	60	1920
AI-903032	1 1/4"	F x F BSP	10 bar	20	1680
AI-903040	1 1/2"	F x F BSP	10 bar	10	840
AI-903050	2"	F x F BSP	10 bar	5	420

SPECIFICATION

- Dezincification resistant brass alloy
- Max working pressure: 10 bar
- Max working temperature: 60°C



AI-903215



DOUBLE CHECK VALVES - ECOFIL®



Ref no	Size	Connections	Pressure		
AI-903215	15mm	Compression	10 bar	100	7200
AI-903222	22mm	Compression	10 bar	50	3600
AI-903228	28mm	Compression	10 bar	25	2100

SPECIFICATION

- Double check valve with compression ends
- Dezincification resistant brass alloy
- Nickel plated finish to body
- Max working pressure: 10 bar
- Max working temperature: 60°C



AI-05794940



DOUBLE CHECK VALVES



Ref no	Size	Connections	Pressure		
AI-05794940	3/4"	M x F BSP	15 bar	1	1200

SPECIFICATION

- Test pressure: 15 bar
- Max working pressure: 10 bar
- Min working pressure: 0.2 bar
- Max working temperature: 60°C
- Conforms to: BS EN 13959



Altecnic double check valves are used to prevent the risk of backflow and back siphonage contamination in domestic dwellings, public and commercial buildings. The valves should be installed close to the water outlet such as taps, basin taps, showers and toilets to prevent back siphonage contamination to the water supply, should a mains supply pipe burst.

BACKFLOW PREVENTION - DOUBLE CHECK VALVES

ISOLATION C/W DOUBLE CHECK VALVE



Ref no	Size	Connections	Pressure		
A-123-2401 CST	G 1/2" x 15mm	M BSP x Spigot	10 Bar	100	2400
123-1001	15mm	Compression x Compression	10 Bar	100	2400
123-1002 CST	1/2" x 15mm	M BSP x Compression	10 Bar	100	2400



A-123-2401 CST

SPECIFICATION

- Max operating pressure: 10 bar
- Max operating temperature: 85°C

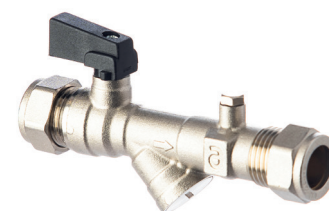


DOUBLE CHECK VALVE ISOLATION & STRAINER



Ref no	Size	Connections	Pressure		
124-6030 CST	15mm	Compression	10 Bar	100	2400

The Altecnic 124-6030 CST is a monobloc manifold which contains a spherical ball valve, a 'Y' strainer and two single check valve cartridges all within a DZR alloy body. The ball isolating valve allows the mains water supply to be isolated, eliminating the need for an additional isolating valve.



124-6030 CST

SPECIFICATION

- Max operating pressure: 10 bar
- Check valve min. operating pressure: 0.2 bar
- Max operating temperature: 85°C



DOUBLE CHECK VALVE COMPLETE WITH ISOLATOR



Ref no	Size	Connections	Pressure		
303615	15mm	Compression	10 bar	50	1200



303615

SPECIFICATION

- Double check valve with compression ends
- Dezincification resistant brass alloy
- Nickel plated finish to body
- Max working pressure: 10 bar
- Max working temperature: 60°C



SHOWER DOUBLE CHECK VALVE



Ref no	Size	Connections	Max working pressure		
123-1101	1/2"	M x F BSP	10 bar	98	4704



123-1101

SPECIFICATION

- Max operating pressure: 10 bar
- Check valve min. operating pressure: 0.2 bar
- Max operating temperature: 85°C



BACKFLOW PREVENTION - DOUBLE CHECK VALVES

119-1007 CST



119-1008 CST



COMBINED ISOLATION, DOUBLE CHECK VALVE & STRAINER



Ref no	Size	Connections	Description		
119-1005 CST	½"	F BSP	Red Handle DCV Combi Valve	50	1200
119-1006 CST	½"	F BSP	Blue Handle DCV Combi Valve	50	1200
119-1007 CST	¾"	F BSP	Red Handle DCV Combi Valve	50	1200
119-1008 CST	¾"	F BSP	Blue Handle DCV Combi Valve	50	1200

The combined isolation, strainer and double check valve is the ideal compact valve to provide backflow prevention to the water supply.

SPECIFICATION

- Max working pressure: 10 bar
- Min inlet pressure: 0.1 bar
- Max continuous temperature: 85°C



BACKFLOW PREVENTION - SINGLE CHECK VALVES

SINGLE CHECK VALVES



BI-100034

Ref no	Size	Connections	Pressure		
BI-100034	15mm	Compression	10 bar	240	2400
BI-100S22	22mm	Compression	10 bar	144	1440
BI-100S28	28mm	Compression	10 bar	90	2430



SPECIFICATION

- Single check valve with compression ends
- Dezincification resistant brass alloy
- Nickel plated finish to body
- Max working pressure: 10 bar
- Max working temperature: 85°C



BACKFLOW
PREVENTION

SINGLE CHECK VALVES



ALT-SCV015

Ref no	Size	Connections	Pressure		
ALT-SCV015	1/2"	F BSP	10 bar	360	3600
ALT-SCV020	3/4"	F BSP	10 bar	192	5184
ALT-SCV025	1"	F BSP	10 bar	114	1140
ALT-SCV032	1 1/4"	F BSP	10 bar	60	1920
ALT-SCV040	1 1/2"	F BSP	10 bar	48	1536
ALT-SCV050	2"	F BSP	10 bar	30	960



SPECIFICATION

- Dezincification resistant brass alloy
- Yellow brass finish to body
- Max working pressure: 10 bar
- Max working temperature: 60°C



SINGLE CHECK VALVES



AI-05731480

Ref no	Size	Connections	Pressure		
AI-05731480	3/4"	M x F BSP	15 bar	1	1440

Altecnic single check valves are used to prevent the risk of backflow and back siphonage contamination in domestic dwellings, public and commercial buildings. The valves should be installed close to the water outlet such as taps, basin taps, showers and toilets to prevent back siphonage contamination to the water supply, should a mains supply pipe burst.



SPECIFICATION

- Test pressure: 15 bar
- Max working pressure: 10 bar
- Min working pressure: 0.2 bar
- Max working temperature: 60°C
- Conforms to: BS EN 13959



BACKFLOW PREVENTION - NON RETURN VALVES & VACUUM BREAKER

BA-300020



NON RETURN VALVES



Ref no	Size	Connections	Max Pressure	
BA-300020	1/4"	F x F BSP	16 bar	60
BA-300030	3/8"	F x F BSP	16 bar	120
BA-300040	1/2"	F x F BSP	16 bar	120
BA-300050	3/4"	F x F BSP	16 bar	108
BA-300060	1"	F x F BSP	16 bar	84
BA-300070	1 1/4"	F x F BSP	10 bar	72
BA-300080	1 1/2"	F x F BSP	10 bar	40
BA-300090	2"	F x F BSP	10 bar	36
BA-300100	2 1/2"	F x F BSP	8 bar	15
BA-300110	3"	F x F BSP	8 bar	12
BA-300120	4"	F x F BSP	8 bar	5

SPECIFICATION

- Spring loaded universal check valve with soft seating and stainless steel spring
- Other models available on request
- Max working temperature: 110°C

BA-030015000



FOOT FILTERS



Ref no	Size	Connections	
BA-030015000	1/2"	M BSP	105
BA-030020000	3/4"	M BSP	80
BA-030025000	1"	M BSP	50
BA-030032000	1 1/4"	M BSP	80
BA-030040000	1 1/2"	M BSP	60
BA-030050000	2"	M BSP	24
BA-030065	2 1/2"	M BSP	20
BA-03008000	3"	M BSP	20
BA-030100	4"	M BSP	20

SPECIFICATION

- For use with our non-return valves

304040



NEW

SERIES 304 - VACUUM BREAKER



Ref no	Description	
304040	1/2" M Vacuum Breaker Device	50
304050	3/4" M Vacuum Breaker Device	50

BACKFLOW PREVENTION - TUNDISHES

ALTECNIC DRY TRAP TUNDISH



Ref no	Size	Connections	Body	Description	
128-2010	15mm X 22mm	Compression x Compression	Straight	Plastic with plastic nuts	28

SPECIFICATION

- Antisplash design provides clear visual indicator for discharge
- No need to install both a tundish and a dry trap; internal spring loaded disc mechanism prevents odours escaping
- Building Regulations compliant.

Find out more
about the
Altecnic Dry Trap
Tundish here



128-2010



NEW



BACKFLOW
PREVENTION

TUNDISHES



Ref no	Size	Connections	Body	Description	
AL-400010 †	15mm x 22mm	Compression x Compression	Straight	Plastic with plastic nuts	532
AP-400011 †	22mm x 28mm	Compression x Compression	Straight	Plastic with plastic nuts	160
AP-400012 †	15mm x 22mm	Compression x Compression	Angled	plastic with plastic nuts	168
128-2001 CST †	1" x 1 ¼"	F x F BSP	Straight	Mild steel	10
128-2003 CST	1 ½" x 2"	F x F BSP	Straight	Mild steel	10
128-2004 CST †	2" x 2 ½"	F x F BSP	Straight	Mild steel	5
128-2005 CST	2 ½" x 3"	F x F BSP	Straight	Mild steel	5

SPECIFICATION

- Suitable for use where air gap or air break is required in sealed or unvented systems.



AL-400010



AP-400012



128-2001 CST

Flow Regulation

Altecnic is dedicated to the efficient use of water, ensuring that we reduce our environmental impact and minimise any waste of water. Our product designers have produced a range of products where fit, function and ease of install is paramount. This range includes CALFLOW PLUS® and Flow regulators.

RANGE OVERVIEW

- Multi-function flow
- Available in size 15mm
- Interchangeable flow cartridges and strainer

BREEAM®

INDUSTRY STANDARDS

Our products have been designed and manufactured to meeting the industry standards of best practice and requirements of BREEAM and the Water Efficient Product Labelling Scheme.

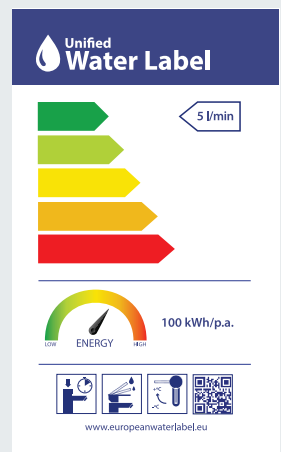
The Building Research Establishment set up BREEAM (Building Research Establishment Environmental Assessment Method) as a way to determine the environmental performance of buildings.

BREEAM highlights the use of water in buildings. Points, which count towards the assessment rank, are awarded depending on the level of environmental efficiency achieved. Most building types can be specified and assessed which include healthcare, industrial, prisons, retail, education, offices as well as domestic housing.

Unified Water Label (UWL)

The Unified Water Label Scheme is independently supported by the Department for Environment, Food and Rural Affairs (DEFRA). It is a method of reviewing water efficient products driven by a regularly maintained database.

Each product in the central database is tested and colour coded. A simple scale ranging from low to high water use provides an at a glance indication of its water saving performance. (www.water-efficiencylabel.org.uk)





CALFLOW PLUS®
AI-811215



Flow
Regulation

AI-811215



CALFLOW PLUS® 15MM



Ref no	Size	Flow rate scale	Connections	Body	
AI-811215 *	15mm	-	Compression	Brass	96
AI-81121504	15mm	4 L/min	Compression	Brass	96
AI-81121506	15mm	6 L/min	Compression	Brass	96
AI-81121508	15mm	8 L/min	Compression	Brass	96
AI-81121510	15mm	10 L/min	Compression	Brass	96
AI-81121512	15mm	12 L/min	Compression	Brass	96
AI-81121515	15mm	15 L/min	Compression	Brass	96
AI-81121518	15mm	18 L/min	Compression	Brass	96
AI-LE01205APB	Blue handle only, for use with CALFLOW PLUS®				-
AI-LE01205APR	Red handle only, for use with CALFLOW PLUS®				-

* body only.

SPECIFICATION

- Multi-function flow 15mm isolation with interchangeable flow cartridges and strainer
- Optional use as flow regulator, isolation, strainer or combination of 2 or more
- Red and blue handles available on request
- Max working pressure: 2 bar
- Max working temperature: 90°C



FLOW REGULATOR CARTRIDGES FOR USE WITH CALFLOW PLUS®

Ref no	Size	Flow rate scale	Colour	
AI-REG04	CALFLOW PLUS® only	4 L/min	Grey	1000
AI-REG06	CALFLOW PLUS® only	6 L/min	Black	500
AI-REG08	CALFLOW PLUS® only	8 L/min	White	500
AI-REG10	CALFLOW PLUS® only	10 L/min	Blue	500
AI-REG12	CALFLOW PLUS® only	12 L/min	Red	500
AI-REG15	CALFLOW PLUS® only	15 L/min	Green	500
AI-REG18	CALFLOW PLUS® only	18 L/min	Grey	250

SPECIFICATION

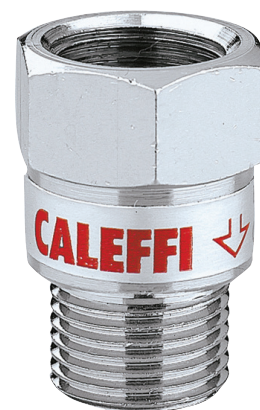
- Colour coded to denote literage per minute, allows constant flow without overflow occurring

FLOW LIMITERS

534 FLOW LIMITER M X F



Ref no	Size	Flow rate scale	Connections	Colour
534102	1/2"	2 L/min	M x F BSP	Green
534104	1/2"	4 L/min	M x F BSP	Grey
534105	1/2"	5 L/min	M x F BSP	Yellow
534106	1/2"	6 L/min	M x F BSP	Black
534108	1/2"	8 L/min	M x F BSP	White
534110	1/2"	10 L/min	M x F BSP	Light blue
534112	1/2"	12 L/min	M x F BSP	Red
534116	1/2"	16 L/min	M x F BSP	Blue
534118	1/2"	18 L/min	M x F BSP	Purple
534202	1/2"	2 L/min	F x M BSP	Green
534204	1/2"	4 L/min	F x M BSP	Grey
534205	1/2"	5 L/min	F x M BSP	Yellow
534206	1/2"	6 L/min	F x M BSP	Black
534208	1/2"	8 L/min	F x M BSP	White
534210	1/2"	10 L/min	F x M BSP	Light blue
534212	1/2"	12 L/min	F x M BSP	Red
534216	1/2"	16 L/min	F x M BSP	Blue
534218	1/2"	18 L/min	F x M BSP	Purple



534202

SPECIFICATION

- Flow limiter, brass body, chrome plated.
- Max working pressure: 12 bar
- Max working temperature: 80°C
- Accuracy ±10%



FLOW
REGULATION

FLOW LIMITER



Ref no	Size	Flow rate scale	Connections	Colour	
SY-RO10LF	1/2"	10 L/min	M x F BSP - Brass	Blue	200
SY-RO6LF	1/2"	6 L/min	M x F BSP - Brass	Green	200
SY-RO8LF	1/2"	8 L/min	M x F BSP - Brass	White	200
SY-RP10LF	1/2"	10 L/min	M x F BSP - ABS Plastic	Blue	200
SY-RP3410LF	1/2" x 3/4"	10 L/min	M x F BSP - ABS Plastic	Blue	200
SY-RP346LF	1/2" x 3/4"	6 L/min	M x F BSP - ABS Plastic	Green	200
SY-RP348LF	1/2" x 3/4"	8 L/min	M x F BSP - ABS Plastic	White	200
SY-RP6LF	1/2"	6 L/min	M x F BSP - ABS Plastic	Green	200
SY-RP8LF	1/2"	8 L/min	M x F BSP - ABS Plastic	White	200



SY-RO6LF

SPECIFICATION

- Max working pressure: 5 bar
- Max working temperature: 80°C
- Accuracy ±10%

BALANCING VALVES

132402



BALANCING VALVE WITH FLOW METER

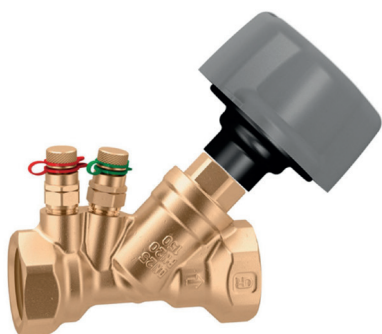


Ref no	Size	Flow rate scale	Connections	
132402	½"	2 - 7 L/min	F BSP	5
132512	¾"	5 - 13 L/min	F BSP	5
132522	¾"	7 - 28 L/min	F BSP	5
132602	1"	10 - 40 L/min	F BSP	5
132702	1 ¼"	20 - 70 L/min	F BSP	5
132802	1 ½"	30 - 120 L/min	F BSP	5
132902	2"	50 - 200 L/min	F BSP	5

SPECIFICATION

- For adjusting and control of flows in heating, air conditioning and cooling systems. Visual flow indicator and flow adjustment.

130900



130 SERIES - VENTURI BALANCING VALVE



Ref no	Description
130400	½" Balancing valve for hydraulic circuits
130500	¾" Balancing valve for hydraulic circuits
130600	1" Balancing valve for hydraulic circuits
130700	1 ¼" Balancing valve for hydraulic circuits
130800	1 ½" Balancing valve for hydraulic circuits
130900	2" Balancing valve for hydraulic circuits

Balancing valves are used to regulate the flow of heating or chilled water to a heating or cooling emitter, such as a fancoil or air handling unit.

Hydraulic circuits must be correctly balanced to ensure that the system performs within the design parameters and provides a high level of comfort for the occupants, with the lowest possible energy consumption.



SPECIFICATION

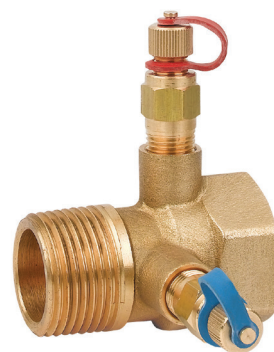
- Max working pressure: 16 bar
- Working temperature range: -20 to 120°C
- Max percentage of glycol: 50%

COMMERCIAL METERING STATIONS

COMMERCIAL METERING STATIONS



Ref no	Description
206-3001	CIM 721 ½" UUL DZR Metering Station
206-3002	CIM 721 ½" ULL DZR Metering Station
206-3003	CIM 721 ½" UL DZR Metering Station
206-3004	CIM 721 ½" L DZR Metering Station
206-3005	CIM 721 ½" M DZR Metering Station
206-3006	CIM 721 ½" DZR Metering Station
206-3007	CIM 721 ¾" DZR Metering Station
206-3008	CIM 721 1" DZR Metering Station
206-3009	CIM 721 1 ¼" DZR Metering Station
206-3010	CIM 721 1 ½" DZR Metering Station
206-3011	CIM 721 2" DZR Metering Station
206-3101	CIM 3723B DN50 SS Metering Station
206-3102	CIM 3723B DN65 SS Metering Station
206-3103	CIM 3723B DN80 SS Metering Station
206-3104	CIM 3723B DN100 SS Metering Station
206-3105	CIM 3723B DN125 SS Metering Station
206-3106	CIM 3723B DN150 SS Metering Station
206-3107	CIM 3723B DN200 SS Metering Station
206-3108	CIM 3723B DN250 SS Metering Station
206-3109	CIM 3723B DN300 SS Metering Station



206-3001



206-3101

SPECIFICATION

- Flow measurement accuracy: ±5%
- Max working pressure: 16 bar
- Temperature Range: up to 99°C

Metering

Altecnic offer a complete range of water meters. Our range of water meters are EEC approved giving you peace of mind. The quality of the moulded pieces, along with the precision of the robotised machines in assembling them, ensures that all the parts fit together perfectly. This means minimal friction between the gearwheels that make up the meter's measuring element and consequently a high degree of precision and sensitivity even at the lowest flow rates. Plus, all of our water meters undergo hydraulic tests for pressure and precision on electronic measurement.

RANGE OVERVIEW

- Single Jet
- Multi Jet
- Dry Dial
- Wet Dial
- Hot Water Use
- Cold Water Use
- EEC approved

Model Type	Single Jet	Multi Jet	Dry Dial	Wet Dial	Hot Water Use	Cold Water Use	Size Range
USF	✓		✓			✓	1/2" & 3/4"
Tagus	✓		✓			✓	1/2", 3/4", 1", 1 1/4" & 1 1/2"
DBRF	✓			✓		✓	1/2", 3/4", 1", 1 1/4" & 1 1/2"
IARF		✓	✓			✓	1/2", 3/4", 1", 1 1/4" & 1 1/2"
OARF		✓	✓			✓	2"
USC	✓		✓		✓		1/2" & 3/4"
USLF	✓		✓			✓	1/2" & 3/4"

Cold Water Meters - Non Pulsed
GG-IARF15

CE marked



Metering

METERING - WATER METERS



GG-3003F13



PS-100001



COLD WATER METERS - NON PULSED

Ref no	Size	Connections	Accuracy Class	Dial Type	Jet Type	Box
GG-3003F13	1/2"	M x M BSP	Class B	Dry dial	Single jet	25
GG-3005F20	3/4"	M x M BSP	Class B	Dry dial	Single jet	18
PS-100001	1/2"	M x M BSP	Class D / MID R 315	Dry dial	Multi jet	20
PS-100002	3/4"	M x M BSP	Class D / MID R 160	Dry dial	Multi jet	20
PS-100004	1"	M x M BSP	Class D / MID R 100	Dry dial	Multi jet	20
GG-2003013	1/2"	M x M BSP	Class B	Wet dial	Single jet	25
GG-2005020	3/4"	M x M BSP	Class B	Wet dial	Single jet	18
GG-2007025	1"	M x M BSP	Class B	Wet dial	Single jet	10
GG-2007030	1 1/4"	M x M BSP	Class B	Wet dial	Single jet	10
GG-2007040	1 1/2"	M x M BSP	Class B	Wet dial	Single jet	10
GG-IARF15	1/2"	M x M BSP	Class B	Dry dial	Multi jet	10
GG-IARF20	3/4"	M x M BSP	Class B	Dry dial	Multi jet	10
GG-IARF25	1"	M x M BSP	Class B	Dry dial	Multi jet	5
GG-IARF30	1 1/4"	M x M BSP	Class B	Dry dial	Multi jet	5
GG-IARF40	1 1/2"	M x M BSP	Class B	Dry dial	Multi jet	5
GG-OARF50	2"	M x M BSP	Class B	Dry dial	Multi jet	5
GG-OARF50.1	2"	M x M BSP	Class B	Dry dial	Multi jet	5

CE marked

GG-2003013



GG-IARF15



GG-OARF50



PS-P00001



COLD WATER METERS - PULSED

Ref no	Size	Connections	Accuracy Class	Dial Type	Litres Pulse	Jet Type	Box
GG-USLF15P1	1/2"	M x M BSP	Class B	Dry dial	1	Single jet	20
GG-USLF20P1	3/4"	M x M BSP	Class B	Dry dial	1	Single jet	10
PS-P00001	1/2"	M x M BSP	Class D / MID R 315	Dry dial	1	Multi jet	10
PS-P00002	3/4"	M x M BSP	Class D / MID R 100	Dry dial	1	Multi jet	10
PS-P00003	1"	M x M BSP	Class D / MID R 100	Dry dial	1	Multi jet	10

CE marked

METERING - WATER METERS

HOT WATER METERS - NON PULSED



Ref no	Size	Connections	Accuracy Class	Dial Type	Litres Pulse	Jet Type	
GG-3003C13	1/2"	M x M BSP	Class B	Dry dial	1	Single jet	25
GG-3005C20	3/4"	M x M BSP	Class B	Dry dial	1	Single jet	18

CE marked



GG-3003C13

HOT WATER METERS - PULSED



Ref no	Size	Connections	Accuracy Class	Dial Type	Litres Pulse	Jet Type	
GG-L12ASC02B051	1/2"	M x M BSP	Class B	Dry dial	1	Single jet	25
GG-L31ASC02B051	3/4"	M x M BSP	Class B	Dry dial	1	Single jet	18

CE marked



GG-L12ASC02B051

WATER METERS - ISOLATION VALVES



Ref no	Size	Connections	
AI-195004	1/2"	F x F Swivel	100



AI-195004

METERING - DATA LOGGERS

205-3001



NEW

MBUS DATA LOGGERS FOR FIXED NETWORK



Ref no	No. of meters
205-3001	8
205-3002	32
205-3003	64
205-3004	128
205-3005	256
205-3006	512

A range of hardwired MBus data loggers to collect up to 512 meters (dependant on model selected) and export data via a fixed network.

205-3011



NEW

MBUS DATA LOGGERS FOR MOBILE NETWORK



Ref no	No. of meters
205-3011	1
205-3012	16
205-3013	32
205-3014	64
205-3015	128
205-3016	256

A range of hardwired MBus data loggers to collect up to 256 meters (dependant on model selected) and export data via a mobile network. (SIM card not included).

METERING - ENERGY METERS

ITRON C F ECHO II ENERGY METER



Ref no	Size	Power	Output
204-1...	15 - 50mm	- Mains - Battery	- M-Bus - Pulsed - Radio - GPRS - RS232



ITRON COMPACT ENERGY METER - ULTRAMAX



Ref no	Size	Power	Output
204-2...	15 - 20mm	- Mains - Battery	- M-Bus - Pulsed - Radio



CE marked

ZENNER C5 IUF ENERGY METER



Ref no	Size	Power	Output
204-8...	15 - 40mm	- Battery Powered by MBus (MBus version only)	- MBus - Wireless MBus - LoRaWAN - Pulse



NEW

HYDROMETER ENERGY METER



Ref no	Size	Power	Output
204-6...	15 - 20mm	- Mains - Battery	- M-Bus - Pulsed - Radio - GPRS - RS232



CE marked

METERING - ENERGY METERS



DIEHL SHARKY 774 ENERGY METER



Ref no	Size	Power	Output
204-6...	15 - 20mm	- Battery	- MBus - Wireless MBus



DIEHL SHARKY 775 ENERGY METER



Ref no	Size	Power	Output
204-6...	15 - 100mm	- Battery - 230v	- MBus - 2x MBus - Wireless MBus - LoRaWAN - RS232 - RS485 - Modbus - Pulse



KAMSTRUP 403 ENERGY METER



Ref no	Size	Power	Output
204-4...	15 - 50mm	- Battery - 230v or 24v	- MBus - Wireless MBus - LoRaWAN - Modbus - Bacnet - Pulse

METERING - ENERGY METERS

KAMSTRUP 603 ENERGY METER



Ref no	Size	Power	Output
204-4...	15 - 300mm	- Battery - 230v or 24v	- MBus - 2x MBus - Wireless MBus - LoRaWAN - Modbus - Bacnet - Pulse



NEW

Underfloor Heating

Underfloor heating is not only highly efficient but also has great design and aesthetic appeal. Altecnic offers a number of solutions for modern underfloor heating.

RANGE OVERVIEW

- Models to suit small systems or larger systems and compatible with distribution manifolds
- Max working pressure of up to 10 bar

Application Guide

Model Series	Application	High Efficiency Pump	Domestic use 	Commercial use 
UFH Control Unit	15kW Output	✓	✓	✓
UFH Compact Control Unit	3kW Output	✓	✓	

UFH Compact Control Unit
502-1012

CE marked



Underfloor
Heating

UNDERFLOOR HEATING - CONTROL UNITS

502-1050



CE marked

UFH CONTROL UNIT



Ref no	Connector Size	Description	Box	Carton
502-1050	G1 1/2"	UFH Control Unit WITH pump (Wilo)	10	420
502-1051	G1 1/2"	UFH Control Unit WITHOUT pump	10	420

The UFH Control Unit is designed to supply temperature controlled hot water to the underfloor heating system or in radiant panel heating systems.

It is designed to be easily connected to any 210mm flow and return manifold (not supplied) to evenly distribute the hot water.

The UFH Control Unit is supplied as a collection of components for easy assembly at site.

The flow elbow has 2 liquid crystal thermometers to indicate temperature and a test port which are to be used to install an air vent or pressure gauge.

The UFH Control Unit is normally supplied with the Wilo Para 25-130/7-50/SC-12 pump but can also be supplied without a pump.

SPECIFICATION

- Medium: water or glycol solution
- Max glycol percentage: 30%
- Temperature range: 5 to 90°C
- Temperature adjustment range: 35 to 60°C
- Factory setting: 35°C
- Accuracy: ±2°C
- Max working pressure: 10 bar
- Male thread connections: BS EN ISO 228-1
- Primary side connection centre distance: 75mm
- Manifold connection centre distance: 210 mm

502-1012



CE marked

UFH COMPACT CONTROL UNIT



Ref no	Connector Size	Description	Box
502-1012	15mm & 1/2"	UFH Compact Unit WITH pump (Wilo)	10

The Altecnic UFH single zone control unit is designed for use on smaller heating circuits such as conservatories and extensions. It provides temperature controlled pre-mixed water to underfloor heating zones with a heat output of up to 3kW, satisfying underfloor areas up to 40 square metres.

The Altecnic UFH is pre-assembled and wired for installer convenience and is supplied complete with a mounting bracket for installation on a wall. A pre-wired flow thermostat is connected via a wiring centre to the pump, which in turn has a mains cable supplied for connection to the power supply.

SPECIFICATION

- Provides mixed temperature water control to underfloor heating systems 3kW maximum

UNDERFLOOR HEATING - ACTUATORS

ACTUATORS



Ref no	Description	
656102	230v ON/OFF thermoelectric actuator	10
656104	24v ON/OFF thermoelectric actuator	10

The thermo-electric actuator, coupled with convertible or thermostatic radiator valves, with distribution manifolds for radiant panel systems and radiators and with zone valves, is controlled by the room thermostat or another electrical switch, shutting off the medium automatically.

SPECIFICATION

- Electric supply 230 V (ac); 24 V (ac); 24 V (dc)
- Starting current $\leq 1A$
- Running current 13 mA (230 V (ac)), 140 mA (24 V (ac) - 24 V (dc))
- Running power consumption 3 W
- Protection class IP 44 (in vertical position)
- Ambient temperature range 0 - 50°C
- Operating time from 120 to 180 seconds



656102

CE marked

C4 HEATING SYSTEM LEAK SEALER



Ref no	Size	Description	
570914	500ml	Leak sealer - C4	12

SPECIFICATION

- 500ml dose per 150 litres of water



570914

C7 BIOCIDES



Ref no	Size	Description	
570913	500ml	Biocide - C7	12

SPECIFICATION

- 500ml dose per 150 litres of water

NI/ROI: Chemicals must be ordered in box quantity



570913

General Plumbing & Accessories

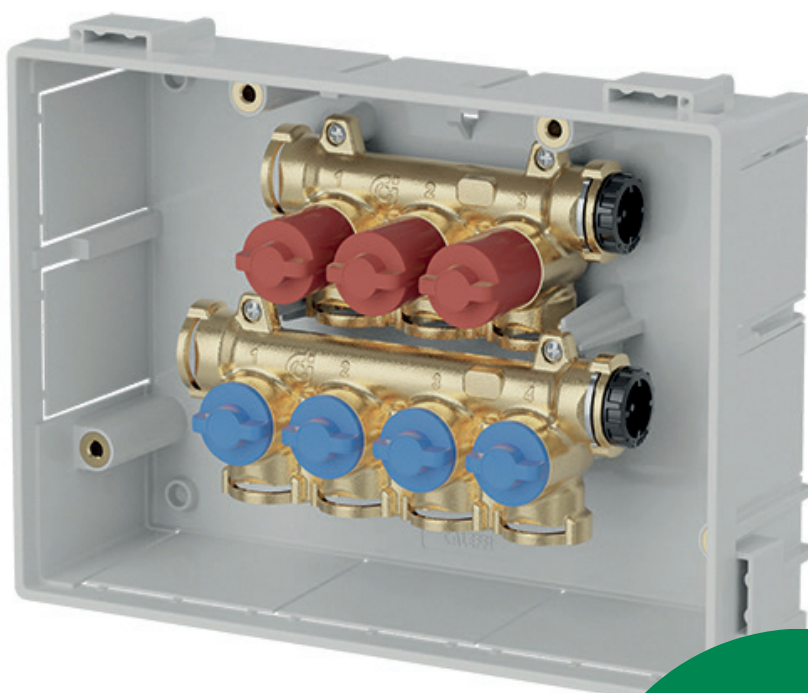
Our accessories range includes specialist components and associated supporting products. For customers who require a specific component, Altecnic have a wide range of products available. As the UK and Ireland's leading provider of plumbing and heating products we have a vast range of accessories to suit your needs.

Did you know?

Altecnic provides training
on all of our products.

For more information
contact us on
+44 (0)1785 218 206

Manifold for Domestic Water Systems
359410



General
Plumbing

GARDEN TAPS & FLEXIBLE HOSES

603450



NEW

ICECAL® GARDEN TAP



Ref no	Description
603450	ICECAL® Garden Tap 1/2" MxM
603040	ICECAL® Anti-freeze device 1/2" M
F89046/C	Anti-freeze Chrome Cartridge

SPECIFICATION

- Maximum working pressure: 10 bar
- Ambient temperature range: -30–90 °C
- Opening temperature: 3 °C
- Closing temperature: 4 °C
- Finish: Chrome
- Material: Brass

128-9004



NEW

FLEXIBLE TAP CONNECTORS - PAIRS



Ref no	Description	
128-9001	15mm x M10 x 300mm Mono tap conn. (pair)	50
128-9002	15mm x M12 x 300mm Mono tap conn. (pair)	50
128-9003	15mm x 15mm x 300mm tap conn. (pair)	50
128-9004	15mm x 1/2" x 300mm tap conn. (pair)	50
128-9005	15mm x 1/2" x 500mm tap conn. (pair)	50
128-9006	15mm x 3/4" x 300mm tap conn. (pair)	50
128-9007	22mm x 3/4" x 300mm tap conn. (pair)	50
128-9008	15mm x 1/2" Iso x 300mm tap conn. (pair)	50
128-9009	15mm x 3/4" Iso x 300mm tap conn. (pair)	50
128-9010	22mm x 3/4" Iso x 300mm tap conn. (pair)	50

SPECIFICATION

- Stainless steel braid
- Max working pressure: 10 bar
- Working temperature range: 0°C - 80°C



PA-2822362151001



FLEXIBLE HOSE



Ref no	Size	Connections	Length	
PA-2822362151001	3/4" M x F	M x F BSP	1000mm	50



DRAIN VALVES, PIPE COVERS & CONDENSATE PRO INSULATION

DRAIN VALVES



Ref no	Size	Connections	Box	Carton
BI-WM0004	15mm	Long tail	200	5000
BI-WM0005	15mm	Short tail	200	5000
BI-WM0006	1/2"	M BSP	200	5000
BI-WM0007	3/4"	M BSP	80	3840

SPECIFICATION

- Max working pressure: 10 bar



BI-WM0005



DRAIN ELBOW



Ref no	Size	Connections	Box	Carton
TI-1100173	22mm x 3/4"	Compression x M BSP	1	-
130-1003	28mm x 28mm	Compression x Compression	80	-
130-1051	28mm x 1"	Compression x M BSP	50	1200

SPECIFICATION

- Max pressure at inlet: 15 bar
- Max temperature: 85°C



130-1003



PIPE COVERS



Ref no	Description	Box
449910	1/2" Pipe covers	10

SPECIFICATION

- Single wall-covering plate
- Chrome plated
- For pipes with external diameter from 12mm - 20mm

449910



CONDENSATE PRO



Ref no	Description	Box
142-1001	Insulation ig001	14
142-2002	Combo 1M kit 2	14
142-3002	Termination kit ig003	20
142-3004	Maint. coat 250ml ig005	20
142-3005	Drift kit ig006	20
142-3006	Grinder head ig007	20
142-3007	150g bond & Sealant	56
142-3008	Connection kit 2 IG010	20

142-2002



359410



359420



SERIES 359 - MANIFOLD FOR DOMESTIC WATER SYSTEMS



Ref no	Description
359410	Distribution manifold with individual shut-off valves (4+3)
359420	Distribution manifold with main shut-off valves (4+3)
359420 001 *	Distribution manifold with main shut-off valves (4+3) - low lead
359510	Distribution manifold with individual shut-off valves (5+4)
359700	Recessed inspection port with push-to-open frame
359801	Plastic aesthetic cover plate (white)
359802	Stainless steel aesthetic cover plate (shiny finish)
359803	Stainless steel aesthetic cover plate (brushed finish)

The distribution manifolds with individual shut-off valves are used to control and distribute the medium in domestic water circuits. They are supplied already assembled in a plastic inspection box to facilitate positioning and installation. They are equipped with shut-off valves with a handwheel for each individual circuit and an identification number for the user served. Box installation can be completed using push-to-open inspection ports or aesthetic cover plates that are available in different finishes.

SPECIFICATION

- No of outlets: 4 + 3 & 5 + 4
- Max pressure at inlet: 10 bar
- Temperature range: 5°C - 90°C



359002



359003



ACCESSORIES FOR SERIES 359



Ref no	Description
359002	Blind plug with fixing clip
359003	23p. 1,5 fitting with fixing clip
359004	1/2" fitting, Ø 13 flat seat with fixing clip
359005	3/4" fitting, Ø 18 flat seat with fixing clip
359006	3/4" fitting, Ø 18 Euroconus with fixing clip

354054



DISTRIBUTION MANIFOLD



Ref no	Size	Connections	
354052	3/4"	M23, P1.5 x 2 outlets	20
354053	3/4"	M23, P1.5 x 3 outlets	20
354054	3/4"	M23, P1.5 x 4 outlets	20
354055	3/4"	M23, P1.5 x 5 outlets	20
354252	3/4"	1/2" M x 2 outlets	20
354253	3/4"	1/2" M x 3 outlets	20
354254	3/4"	1/2" M x 4 outlets	20
354255	3/4"	1/2" M x 5 outlets	20

SPECIFICATION

- Modular single distribution manifold with shut-off valves.
- Dezincification resistant alloy body
- Max working pressure: 10 bar
- Temperature range: 5 - 100°C
- Outlet centre distance: 35mm
- Adapters required for pipe



JOINTING PASTE, FITTINGS & OIL FILTERS

JOINTING PASTE



Ref no	Description	
114-9100	Jointing paste for use with potable water, liquids and gases	12



114-9100

COMPRESSION FITTING FOR COPPER TUBE



Ref no	Size	Connections	
347010	Ø 10mm	Ø 23mm x 10mm Compression	100
347015	Ø 15mm	Ø 23mm x 15mm Compression	100



347010

SPECIFICATION

- Compression fitting for annealed copper, hard copper, brass, mild steel and stainless steel pipes
- Complete with O ring seal
- Max working pressure: 10 bar
- Temperature range: -25 - 120°C

OIL FILTERS



Ref no	Description	
GA-V7045201ALS	¼" Filter aluminium bowl with bleed screw	100
GA-V7045101ALS	¾" Filter aluminium bowl with bleed screw	100
GA-V7030201A	½" Oil filter with aluminium bowl	20
GA-V7010401A	¾" Oil filter with aluminium bowl	6
GA-V7010101	1" Oil filter with aluminium bowl	6



GA-V7045101ALS

OIL NIPPLES



Ref no	Description	
PA-300101	¼" x ¼" Nipple	160
PA-300202	¼" x ¾" Nipple	160



PA-300101

Water Treatment

Water treatment is essential to ensure your system is running as efficiently as possible. Altecnic offer a range of treatments including chemical products to clean and inhibit the system as well as an automatic water treatment unit.

RANGE OVERVIEW

- Automatic water treatment units for demineralisation and softening
- Fill & Flush Valves
- Electrolytic & Magnetic Scale Reducers
- Aerosol Cleaner & Inhibitor
- Liquid Cleaner & Inhibitor
- Leak Sealer & Biocide Chemicals

Automatic Water Treatment Unit
580020



Water
Treatment

580011



AUTOMATIC COMPACT CHARGING UNIT



Ref no	Size	Connection	Body	
580011	DN15 (½")	Threaded M BSP	Brass	5

Automatic compact charging unit with BA-type backflow prevention valve.

The compact automatic charging unit is composed of a shut-off valve with an inspectable strainer, a BA-type controllable reduced pressure zone backflow preventer and an automatic filling unit. It is installed on the water inlet piping in closed circuit heating systems. It maintains the pressure of the system stable at a set value, automatically topping up with water as required. The backflow preventer prevents the contaminated water of the closed heating circuit from flowing back into the domestic water supply, in accordance with the provisions of EN 1717. The device is supplied complete with preformed shell insulation and features a compact design to facilitate installation.

580020



AUTOMATIC WATER TREATMENT UNIT



Ref no	Size	Connection	Description
580020	DN15 (½")	BSPT	Automatic water treatment unit without cartridge
580900	2.7ltr	BSPT	Disposable polymer cartridge for water demineralisation treatment using mixed bed ion exchange resins
580901	4.5ltr	BSPT	Disposable polymer cartridge for water demineralisation treatment using mixed bed ion exchange resins
580902	2.7ltr	BSPT	Disposable polymer cartridge for water softening treatment via ion exchange resin
580903	4.5l	BSPT	Disposable polymer cartridge for water softening treatment via ion exchange resin

580902



The automatic water treatment unit, installed on the inlet pipe, is used to treat water in the closed circuits of heating and cooling systems. It consists of an upstream check valve, an electronic controller with positive displacement meter and electrical conductivity measuring cell, a by-pass regulator, a downstream ball shut-off valve and adjustable drain cocks and air vent. It can be set up with different types and sizes of cartridge, which means demineralisation or softening treatments can be performed in line with system requirements. It is complete with pre-formed shell insulation, bracket and anchors for wall mounting.

FILL & FLUSH VALVES

FILL & FLUSH VALVE

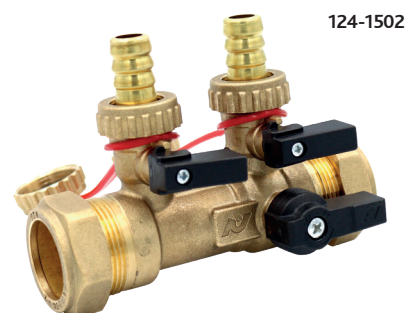
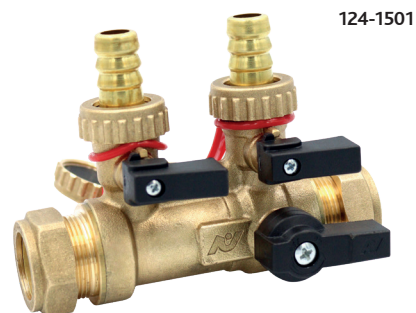


Ref no	Size	Connection	Pressure		
124-1501	22mm	Compression	10 bar	25	450
124-1502	28mm	Compression	10 bar	25	450

The Altecnic fill and flush valve is designed for use on domestic and small commercial heating systems. The combination of two ball isolating valves and one 'T' port diverting ball valve are used to fill and flush the system with cleaning chemicals or water treatment.

SPECIFICATION

- Max temperature: 85°C
- Min temperature: 2°C
- Max Pressure: 10 bar Compression ends complying with: BS EN 1252-2 for use with R250 (half hard) copper tube.



SCALE REDUCERS

114-9003



ELECTROLYTIC SCALE REDUCER



Ref no	Size	Connections		
114-9003	15mm	Compression	10	450
114-9005	22mm	Compression	10	450



114-9007



MAGNETIC SCALE REDUCER



Ref no	Size	Connections		
114-9007	15mm	Compression	10	450



CHEMICALS

LIQUID CLEANER AND INHIBITOR



Ref no	Size	Description	Box	Unit
114-9001	500ml	Cleaner - iQ3	12	720
114-9002	500ml	Inhibitor - iQ1	12	720



114-9001



114-9002



C4 HEATING SYSTEM LEAK SEALER



Ref no	Size	Description	Box
570914	500ml	Leak sealer - C4	12

SPECIFICATION

- 500ml dose per 150 litres of water



570914

C7 BIOCIDES



Ref no	Size	Description	Box
570913	500ml	Biocide - C7	12

SPECIFICATION

- 500ml dose per 150 litres of water

NI/ROI: Chemicals must be ordered in box quantity.



570913

Commercial Washrooms

The Altecnic range of commercial washroom products includes non concussive taps, timed flow controls, vandal resistant flow controls, vandal resistant shower valves and shower panels.

RANGE OVERVIEW

- 40 years heritage
- 5 year warranty
- The SILFRA range includes:
 - Taps
 - Flow Control
 - Shower Heads

To find out more about Altecnic's range of Commercial Washroom Products visit www.altecnic.co.uk/washrooms



Silfra IR Tap
CRIQT33251ATI

CE marked



Commercial
Washrooms

COMMERCIAL WASHROOM SOLUTIONS

QK23051



QK23551



SILFRA NON CONCUSSIVE TAPS



Ref no	Description		
QK23051	Single Basin Tap	20	360
QK23551	Single Wall Tap	20	360

The SILFRA range of non concussive taps are equipped with flow rate control for water efficiency. Manufactured from the best materials to ensure maximum reliability and durability.



SPECIFICATION

- Timed flow: 15 sec (adj +/- 5 sec)
- Flow rate: adj min 3 l/m, max 15 l/m at 3 bar

QK16551



QK15051



SILFRA TIMED FLOW CONTROLS



Ref no	Description		
QK16551	Exposed timed flow control (single)	40	720
QK15051	Concealed timed flow control (single)	20	360

Functional and efficient, SILFRA Timed Flow Controls are perfect for conserving water in public spaces. All SILFRA products come with a 5 year warranty as standard.



SPECIFICATION

- Max pressure: 5 bar
- Min pressure: 1 bar
- Max temperature: 60°C
- Timed flow: 30 sec (adj +/- 5 sec)
- Flow rate: Adj min 3 l/m, 15 l/m at 3 bar

QL23051



SILFRA TOGGLE TAP



Ref no	Description		
QL23051	Basin (single)	8	144

The SILFRA toggle tap is designed for basin mounting and can be used with hot, cold or mixed water. Complete with lever for hygienic elbow operation.



SPECIFICATION

- Wash basin tap with elbow lever
- Max pressure: 5 bar
- Min pressure: 1 bar
- Max temperature: 60°C
- Timed flow: 15 sec (adj +/- 5 sec)
- Flow rate: Adj min 3 l/m, 15 l/m at 3 bar

COMMERCIAL WASHROOM SOLUTIONS

SILFRA NON CONCUSSIVE MIXER TAP



Q425251

Ref no	Description	Box	Unit
Q425251	Non concussive mixer tap (single)	8	144

The wash basin push tap with temperature regulation is equipped with a cartridge that allows simple control of timing and flow rate.



SPECIFICATION

- Max pressure: 5 bar
- Min pressure: 1 bar
- Max temperature: 60°C
- Timed flow: 15 sec (adj +/- 5 sec)
- Flow rate: Adj min 3 l/m, 15 l/m at 3 bar

SILFRA IR



CRIQT33051ATI

Ref no	Description	Box
CRIQT33051ATI	Infrared Basin Tap, Single feed, Battery controlled	8
CRIQT33851ATI	Infrared Basin Tap, Single feed, Mains controlled	8
CRIQT33251ATI	Infrared Basin Tap with temperature adjustment, Dual feed, Battery controlled	8
CRIQT33951ATI	Infrared Basin Tap with temperature adjustment, Dual feed, Mains controlled	8

The Altecnic range of infrared taps are hygienic and touch free. Perfect for conserving water in public places and providing a more hygienic washing experience.



CRIQT33251ATI



SPECIFICATION

- Chrome plated brass body
- Electronic taps for wash hand basins
- Stainless steel flexible hoses with anti water hammer systems and non-return valves
- 6V battery operated
- Mains power supply 115V 50Hz AC / 230 V 50Hz AC

CE marked UK CA pending

SILFRA VANDAL RESISTANT HEAD



PD15251

Ref no	Description	Box	Unit
PD15251	Small	20	320
AT89051	Large	20	300

The Altecnic range of vandal resistant shower heads are designed for a concealed supply behind a panel or wall and are ideal for communal facilities in schools, sports and leisure facilities and other areas where there is a risk of misuse.



AT89051



SPECIFICATION

- Recommended operational pressure: 1 - 5 bar
- Max test pressure: 16 bar
- Max water temperature: 70°C
- Recommended water temperature: 41 - 43°C
- Pressure difference between hot & cold water: 1.5 bar

COMMERCIAL WASHROOM SOLUTIONS

605-1002



FOOT OPERATED TAPS



Ref no	Description
605-1001	Foot operated tap wall / floor - single
605-1002	Foot operated tap wall / floor - dual

SPECIFICATION

- The single tap is suitable for use with cold, hot or mixed water
- The dual tap has 2 inlet connections for cold and hot/mixed water and by pressing the appropriate pedal either can be selected
- Red and blue pads identify the services
- For mixed water the tap should be used in conjunction with a thermostatic mixing valve
- Both the single and dual taps can be converted for floor or wall mounting

ALT-521928



SERIES 5219 - MIXCAL® III GROUP THERMOSTATIC MIXING VALVE



Ref no	Size	Connections	Check Valves	Temperature	
ALT-521928	28mm	Compression	Yes	Setting range 35 to 50°C	6

SPECIFICATION

- Max working pressure: 14 bar (static), 5 bar (dynamic)
- Max hot inlet temperature: 90°C
- Temperature stability: $\pm 2^{\circ}\text{C}$



116420



1164 SERIES - THERMOSTATIC REGULATOR FOR HOT WATER RECIRCULATION



Ref no	Size	Connections	Description		
116415	15mm	RP 1/2" w/ 15mm compression fitting	Thermostatic regulator	5	450
116420	22mm	RP 3/4" w/ 22mm compression fitting	Thermostatic regulator	10	450
116440	1/2"	F BSP	Thermostatic regulator	10	450
116441	1/2"	F BSP	Thermostatic regulator with gauge	10	450
116450	3/4"	F BSP	Thermostatic regulator	5	450
116451	3/4"	F BSP	Thermostatic regulator with gauge	5	450

The Altecnic thermostatic regulator for domestic hot water re-circulation loops automatically maintains the specified water temperature.



SPECIFICATION

- Max working pressure: 16 bar
- Max working temperature: 60°C
- Temperature gauge available (code: 116010)
- Temperature adjustment range: 40 - 65°C



COMMERCIAL WASHROOM SOLUTIONS

FAST FIX CONNECTIONS



Ref no	Description		
606-1001	Fast Fitting - Round	20	960
606-1002	Wall Mounting	24	1440
606-1003	Fast Fitting - Square	20	960



606-1001



606-1002



606-1003

SHOWER DOUBLE CHECK VALVE



Ref no	Size	Connections	Max working pressure		
123-1101	1/2"	M x F BSP	10 bar	98	4704



123-1101

SPECIFICATION

- Max operating pressure: 10 bar
- Check valve min. operating pressure: 0.2 bar
- Max operating temperature: 85°C



COMMERCIAL WASHROOM SOLUTIONS

ALT-521928



116420



GROUP SHOWERS WITH EXPOSED CONTROLLER AND SHOWER HEAD

Ref no	Description	Diagram ref
ALT-521928	28mm Thermostatic mixing valve	1
116420	Thermal recirculation valve	2
AT89051	Vandal resistant shower head	3
QK16551	Exposed timed flow control	4

AT89051



QK16551



ALT-521928



116420



GROUP SHOWERS WITH CONCEALED CONTROLLER AND SHOWER HEAD

Ref no	Description	Diagram ref
ALT-521928	28mm Thermostatic mixing valve	1
116420	Thermal recirculation valve	2
PD15251	Vandal resistant shower head	3
QK15051	Concealed timed flow control	4

PD15251



QK15051



ALT-521928



116420



GROUP BASINS

Ref no	Description	Diagram ref
ALT-521928 *	28mm Thermostatic mixing valve	1
116420 *	Thermal recirculation valve	2
QK23051 *	Non-concussive basin tap	3
CRIQT33051ATI	Infrared basin tap	4

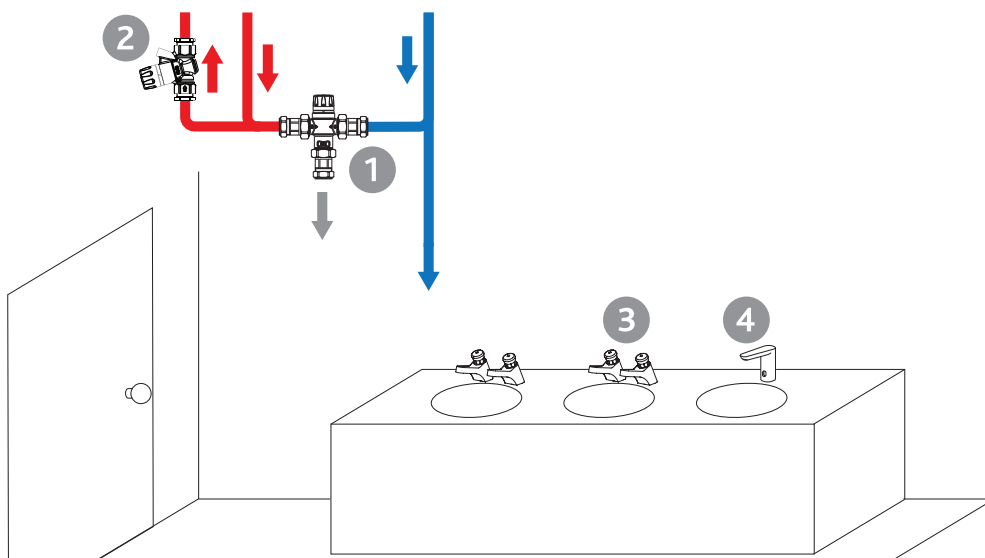
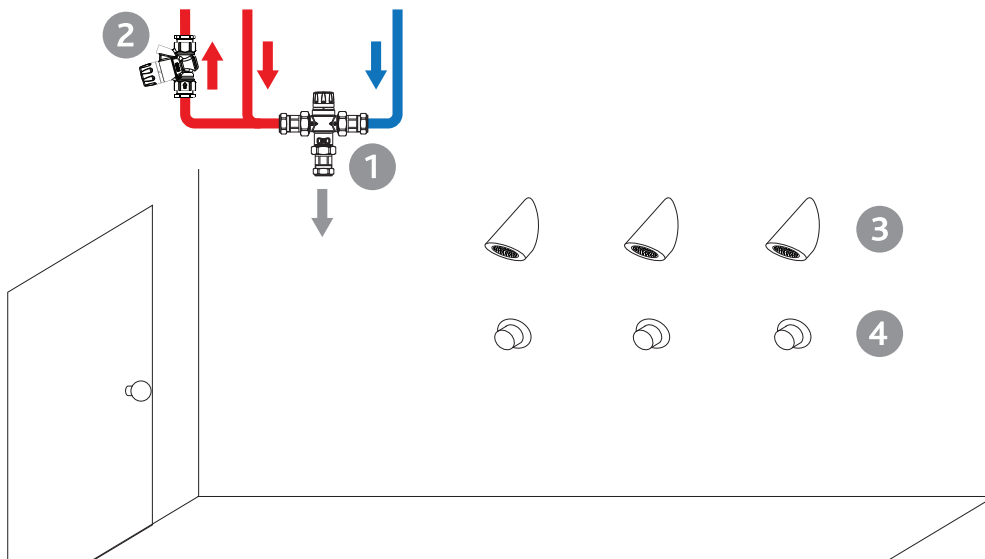
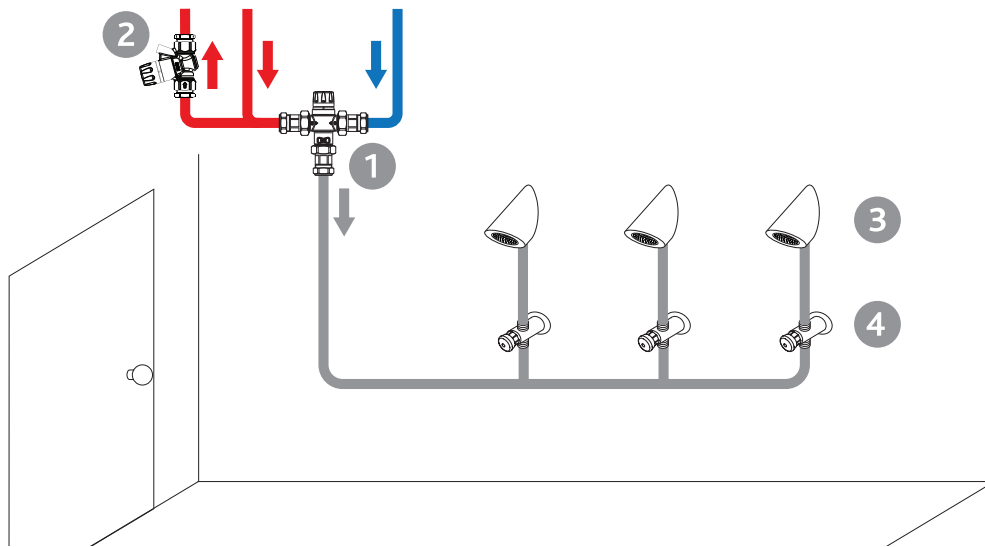
QK23051



CRIQT33051ATI



COMMERCIAL WASHROOM SOLUTIONS



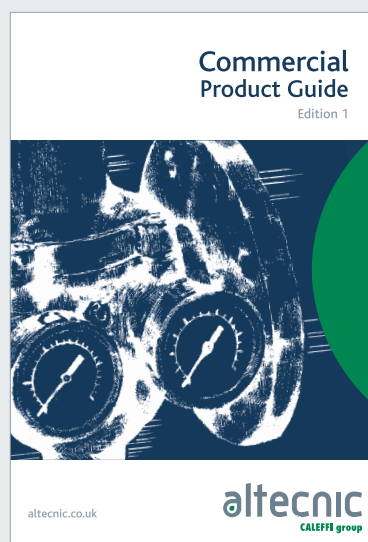
Commercial Products

Altecnic offers a complete range of plumbing and heating products for commercial applications. Built upon 30 years of industry experience our commercial product range includes:

- Balancing Valves
- Thermostatic Mixing Valves
- Pressure Reducing Valves
- Dirt and Air Separation
- Pressure Independent Control Valves
- Backflow Prevention Devices
- Safety Relief Valves
- Thermal Stores
- Metering
- Differential Pressure Control Valves
- Fan Coil Hook Up Units

To find out more about Altecnic's range of Commercial Products visit www.altecnic.co.uk/commercial

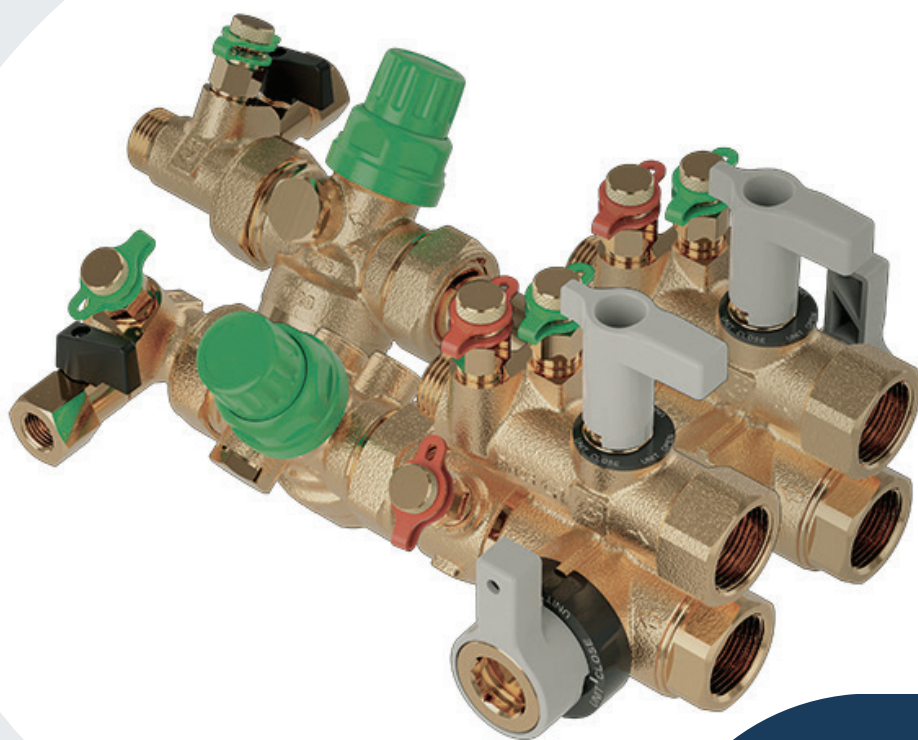
Altecnic provides CIBSE approved Continued Professional Development (CPD) seminars on systems balancing, district heating, backflow prevention and other topics. Contact us for further information.



Download your copy of the commercial guide on our website



Connection Kit for HVAC Terminal Units
149500



Commercial
Products

Heat Interface Units

The drive to conserve finite fossil energy stores and reduce the carbon footprint of buildings to meet latest regulations, has pushed the modern building services engineer to create specific central plant designs. This allows for the easy and efficient integration of renewable energy sources, such as CHP, solar, heat pumps, etc. A central plant system needs to offer a reliable and efficient way of producing hot water, controlling the heating and metering of each individual flat, apartment or house. Altecnic's range of Heat Interface Units (HIU's), consumer modules and metering products, do just that.

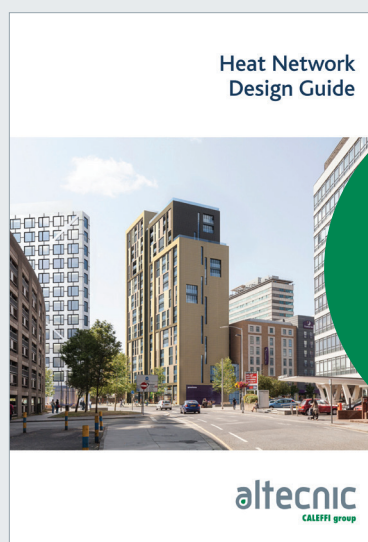


RANGE OVERVIEW

Available in the range:

- Electronic HIUs
- Manual HIUs
- Low Temperature Network
- MODbus Network Control
- Direct and Indirect
- Stored Domestic Water
- Hot Water Only

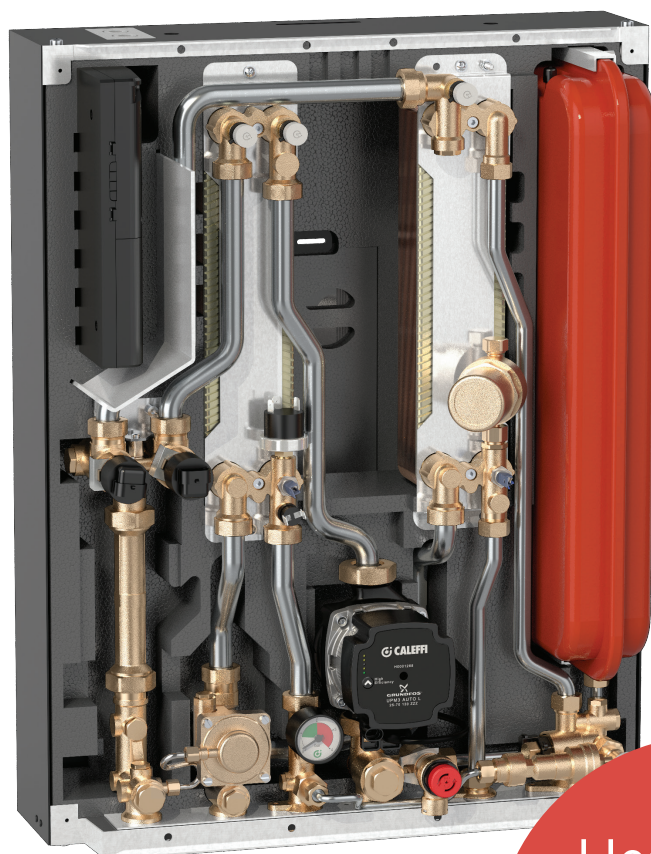
To find out more about Altecnic's Heat Network products visit
www.altecnic.co.uk/heat-networks



Download your
copy of the Heat Network
Design Guide here



Heat Interface Unit
SATK32



Heat
Interface
Units

Renewables

RENEWABLE ENERGY RANGE

SOLAR

The CALEFFI SOLAR® product range has been specially developed for use in solar thermal systems, where high temperatures can normally be reached and where, depending on the kind of system, there can be glycol. Materials and performance of the components must necessarily take into account these particular operating conditions.

GEO THERMAL

The products in the geothermal product range have been conceived specifically for use in heat pump systems. The thermal medium in circuits within air source heat pumps can reach very low temperatures; for this reason the components are made with high-performance materials and special solutions to prevent freezing are offered.

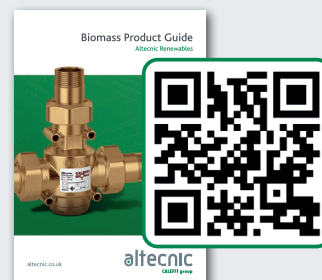
BIOMASS

The CALEFFI BIOMASS® product series has been created specifically to be used in circuits of systems with wood solid fuel generators, operating at high temperature with water or glycol solutions as thermal medium. The materials of the components and their performance take account of the specific system needs in terms of efficiency and safety of the generators and systems.

HEAT PUMPS

The products in the heat pump product range have been conceived specifically for use in heat pump systems. The thermal medium in circuits within air source heat pumps can reach very low temperatures; for this reason the components are made with high-performance materials and special solutions to prevent freezing are offered.

Scan QR codes for brochures:



To find out more about Altecnic's range of Renewable Products visit
www.altecnic.co.uk/domestic/renewables