



# price list

february 2012

## General information

### Office hours:

Monday to Friday 8.30am - 5.00pm.

### Prices:

Prices are exclusive of VAT, and are subject to change without notice.

All prices displayed are recognised as list.

### Terms:

A copy of altecnic's terms and conditions is available on request.

### Property of goods:

Until full payment has been received, all goods supplied remain the property of altecnic ltd.

### Delivery:

Carriage paid 3 day service, UK mainland only. (minimum order value of £100 applies or £7.50 small order charge applies)

## customer care notice

In-warranty claims and authorised good stock returns.

- collected and processed within 28 days of written notification.
- warranty is 12 months from date of installation / 18 months from date of manufacture (date of manufacture stamped onto the product) and is limited to replacement (product) value only.
- please note. rehandling charges are applicable on good stock returns.

## useful contacts

Accounts enquiries: 01785 218203

Customer care line: 01785 218207

Merchant sales: 01785 218200  
sales@altecnic.co.uk

## Important notes

- 1.The standard rehandling charge is 20% of the nett value of the product authorised for good stock return.
- 2.Goods returned to altecnic without authorisation or correct paperwork, may not be accepted for processing.
- 3.Warranty claims are subject to proof that the product has been correctly installed, in accordance with the installation instructions and good working practice.
- 4.Warranty claims exceeding £50 can only be authorised by the altecnic customer care department.
- 5.As part of our quality procedure, we validate a warranty claim by product test procedures.
- 6.All short shipments to be advised within 7 days of receipt.
- 7.All returns must be packaged securely; otherwise they may not be processed for credit.



## CarbonNeutral® Environmentally positive

THE  
**CARBON  
NEUTRAL**  
COMPANY

**To Altecnic, being CarbonNeutral® since 2007, doesn't mean resting on our laurels. We donate money to environmental projects which we can see making a big difference to communities - from reforestation in Wales to wind farms in New Zealand or energy-saving lightbulbs in Jamaica.**

But this mindset also means we approach new legislation positively in our product design. We were first to meet the Part G legislation of the Building Regulations with our patented Calflow Plus water flow regulator and isolation valve. Closely linked with our manufacturing partners we are constantly working towards increased product efficiency to anticipate future standards.

Working with The CarbonNeutral® company and the Edinburgh centre for Carbon Management, we followed a 3 phase process, in turn assessing our carbon footprint, taking steps to reduce it, then investing in 'carbon offset projects' world-wide.

We were the first in our industry to become CarbonNeutral®, and our reduced energy bills are the evidence that environmental responsibility wins in several ways. Many of the Altecnic workforce have carried these principles into their homes, where they're saving carbon and cost.

We are continuing to work actively to reduce our environmental impact while producing products that save resources and energy. Products, therefore, with a future.

# Proud of our heritage - passionate about our future.

We're pleased to present our latest catalogue, which brings you one of the widest ranges of top quality plumbing and heating products on the market today. We're constantly seeking innovative new products, while upholding our design and manufacturing standards, and we deliver throughout the UK and Southern Ireland.

Altecnic products and services are chosen by trade merchants, original equipment manufacturers, plumbing and heating engineers and specifiers. Our breadth and range of products, backed by relevant certification and approvals, mean you can be confident in your choice. Our products are fully supported by our National Sales team, technical and quality departments.

In fact, our quality and environmental standards are proven by our ISO 9001:2008 and 14001:2004 certification. We are proud to display these and continue to work with our in-house technical designers to keep our products compliant with current and anticipated legislation.



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# thermostatic radiator valves & twin packs



## ecocal thermostatic radiator valves

Ref. no	Description	Box quantity
CA-200428MS	ecocal 8mm angled TRV	50
200420 LTC	ecocal 10mm angled TRV	50
200425 LTC	ecocal 15mm angled TRV	50
CA-200455	ecocal 15mm angled with high chrome head	50
CA-201010	ecocal 10mm straight TRV	20
200465 LTC	ecocal 15mm straight TRV	20
CA-201013	ecocal 10mm straight with high chrome head	50
CA-201011	ecocal 15mm straight with high chrome head	50



## ecocal twin packs

Ref. no	Description	Box quantity
200440 LTC	ecocal 10mm angled twin pack	20
200445 LTC	ecocal 15mm angled twin pack	20
200405 LTC	ecocal 15mm angled twin pack push fit	20
CA-200456	ecocal 10mm angled twin pack chrome head	20
200455 LTC	ecocal 15mm angled twin pack chrome head	20
CA-200478	ecocal 10mm straight twin pack	20
200475 LTC	ecocal 15mm straight twin pack	20
CA-200477	ecocal 10mm straight chrome head twin pack	20
200485 LTC	ecocal 15mm straight chrome head twin pack	20
CA-200510	ecocal complete with angled 10mm pushfit elbows	20

## commercial pre-settable radiator valves

Ref. no	Description	Box quantity
421402	ecocal 1/2" angled TRV body only	20
422402	ecocal 1/2" straight TRV body only	20



## commercial radiator valves

Ref. no	Description	Box quantity
220402	1/2" angled body - 1/2" female iron (not reversible)	20
220500	3/4" angled body - 3/4" female iron (not reversible)	20
221402	1/2" straight body - 1/2" female iron (not reversible)	20
221500	3/4" straight body - 3/4" female iron (not reversible)	20
224402	1/2" angled body (horizontal sensor) (not reversible)	20



Please note: when ordering an ecocal TRV to iron, quote both thermostatic head code and valve body codes separately.

# thermostatic radiator valves & twin packs



## polished radiator valves

Ref. no	Description
YU-JQAL023LC	15mm x 1/2" angled minimalist (single peg) pair
YU-JQAL027LC	15mm x 1/2" angled minimalist (cross head) single
YU-JQAL025LC	15mm x 1/2" angled modern pair
YU-JQAL028LC	15mm x 1/2" angled traditional (cross head) single
YU-JQAL022LC	15mm x 1/2" straight minimalist (single peg) pair
YU-JQAL026LC	15mm x 1/2" straight minimalist (cross head) single
YU-JQAL024LC	15mm x 1/2" straight modern pair



## push fit elbow

Ref. no	Description	Box quantity
459004	15mm plain tail x 10mm pushfit elbow (pair)	25



## ecocal thermostatic heads

Ref. no	Description	Box quantity
CA-200000	ecocal standard head and collar	10
200014 CST	ecocal high chrome head	50

## radiator valves - series 400 (not reversible)

Ref. no	Description	Box quantity
431503	¾" lockshield angled radiator valve	20
431402	½" lockshield angled radiator valve	20
401500	¾" wheelhead angled radiator valve	20
411402	½" wheelhead angled standard radiator valve	20
432503	¾" lockshield straight radiator valve	20
432402	½" lockshield straight radiator valve	20
402500	¾" wheelhead straight radiator valve	20
412402	½" wheelhead straight radiator valve	20



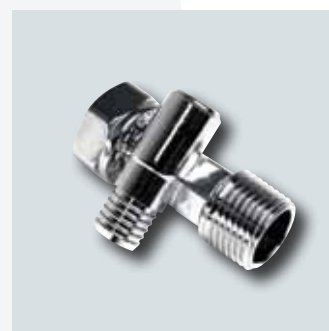
## ecocal options

Ref. no	Description	Box quantity
200001	ecocal head only	10
201000	ecocal 2m remote sensor head	10
656102	220v thermoelectric actuator	10
656104	24v thermoelectric actuator	10
472000	remote adjusting and sensing for TRV 2m capillary	1
CA-100793	tamperproof guard and allen key for tamperproof guard	1
BI-100002	LTC 15mm x 10mm reducing bullet	20
BI-100001	LTC 15mm x 8mm reducing bullet	20
226400	radiator valve - double elbow	50



## ecocal and eclipse radiator drain off tail piece

Ref. no	Description	Box quantity
YU-JQAL213HC	radiator drain off tail piece	50



# thermostatic radiator valves & twin packs



## eclipse manual radiator valves

Ref. no	Description	Box quantity
CA-410408	8mm angled eclipse valve with WH and LS cap	10
410410 LTC	10mm angled eclipse valve with WH and LS cap	10
410415 LTC	15mm angled eclipse valve with WH and LS cap*	10
CA-410425	15mm angled eclipse pair with high chrome heads	10
CA-406408	8mm straight eclipse valve with WH and LS cap	10
CA-406410	10mm straight eclipse valve with WH and LS cap	10
406415 LTC	15mm straight eclipse valve with WH and LS cap	10
CA-406425	15mm straight eclipse pair with high chrome heads	10

- 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
- Maximum operating pressure of 10 bar
- Polished chrome finish (where appropriate)

\* Suitable for all valves

## ecopas differential bypass valve

Ref. no	Description	Box quantity
519002 GLW	22mm compression (BG approved version)	10
519500	¾" full flow differential valve	10
519700	1¼" full flow differential valve	10

- 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



## robokit extra

Ref. no	Size	Description
CA-900004	4	4 ltr vessel and kit (wall mounted)
CA-900008	8	8 ltr vessel and kit (wall mounted)
CA-900012	12	12 ltr vessel and kit (wall mounted)
CA-900018	18	18 ltr vessel and kit (wall mounted)
CA-900024	24	24 ltr vessel and kit (wall mounted)
CA-900035	35	35 ltr vessel and kit (base mounted)
CA-900050CP	50	50 ltr vessel and kit (base mounted)
CA-900080	80	80 ltr vessel and kit (base mounted)

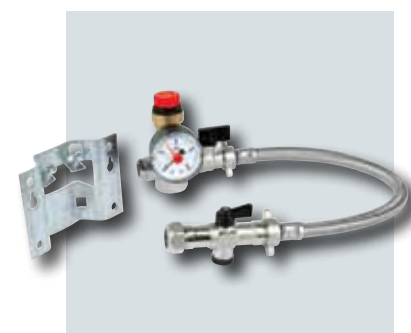
- Sealed system kit comprising: expansion vessel, filling loop, safety relief valve complete with gauge, mounting bracket to suit up to a 24 litre capacity and manifold fitting



## robokit sealed system kit

Ref. no	Description
CA-900000	½" sealed system kit (for 4 ltr to 80 ltr)
CA-900001	¾" sealed system
CA-100085	½" sealed system kit with remote SRV (SRV remote from robokit)
CA-100000	½" sealed system kit without bracket

- Sealed system filling kit comprising: filling loop, safety relief valve complete with gauge, mounting bracket to suit up to 24 litre capacity and manifold fitting
- Water regulations G24.1 and 24.2 compliant filling loop



## expansion vessels for heating systems

Ref. no	Capacity	Diameter	Height	Inlet connection	max working pressure bar
ZI-301004	4 ltr	225mm	195mm	¾" BSP	4 bar
ZI-301008	8 ltr	220mm	295mm	¾" BSP	4 bar
ZI-301012	12 ltr	294mm	281mm	¾" BSP	4 bar
ZI-301018	18 ltr	290mm	400mm	¾" BSP	4 bar
ZI-301024	24 ltr	324mm	415mm	¾" BSP	4 bar
ZI-302035.CP	35 ltr + base	404mm	408mm	¾" BSP	4 bar
ZI-302050.CP	50 ltr + base	404mm	530mm	¾" BSP	4 bar
ZI-302080	80 ltr	450mm	608mm	¾" BSP	5 bar
ZI-302105	105 ltr	500mm	665mm	¾" BSP	6 bar
ZI-302150	150 ltr	500mm	897mm	¾" BSP	6 bar
ZI-302200	200 ltr	600mm	812mm	¾" BSP	6 bar
ZI-302250	250 ltr	630mm	957mm	¾" BSP	6 bar
ZI-302300	300 ltr	630mm	1105mm	¾" BSP	6 bar
ZI-302400	400 ltr	630mm	1510mm	¾" BSP	6 bar
ZI-302500	500 ltr	750mm	1340mm	1" BSP	6 bar
ZI-302600	600 ltr	750mm	1565mm	1" BSP	6 bar
ZI-302750	700 ltr	750mm	1755mm	1" BSP	6 bar

- Capacity from 4 litres to 700 litres
- -10°C - +99°C working temperature



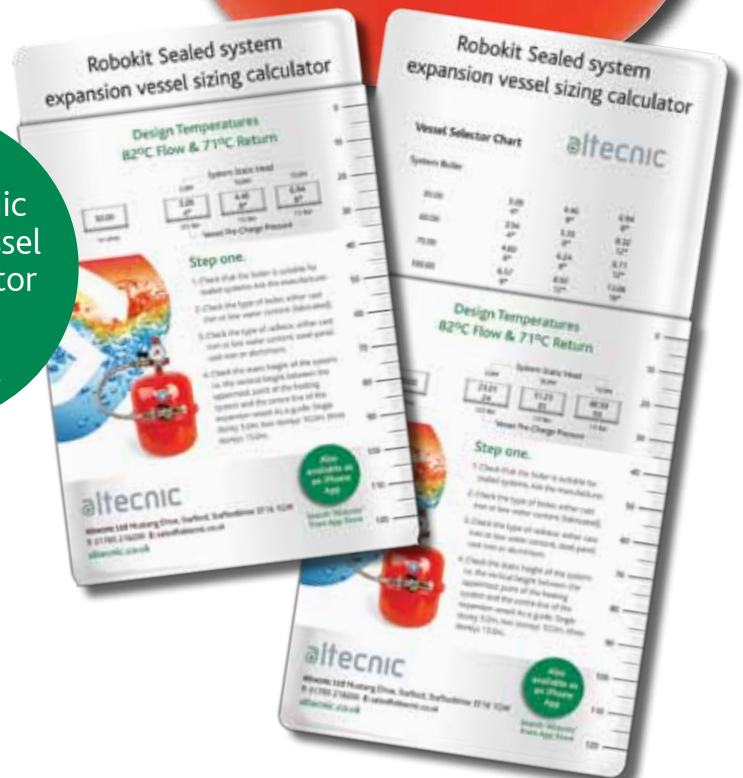
# Robokit sealed system

## Heating vessel sizing guide

Boiler output		Vessel size per system static head		
kw	btu/hr	5m	10m	15m
5	17060	4ltr	8ltr	8ltr
10	34120	8ltr	12ltr	18ltr
15	51180	12ltr	18ltr	24ltr
20	68240	12ltr	18ltr	35ltr
25	85300	18ltr	24ltr	35ltr
35	102360	24ltr	35ltr	50ltr
40	136480	35ltr	35ltr	80ltr
		0.5bar	1.0bar	1.5bar
vessel pre-charge				



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



### components for sealed system

Ref. no	Description
502649	15mm automatic air vent
312430	½" M x F 3 bar safety relief valve
311430	½" F x F 3 bar safety relief valve
311530	¾" F x F 3 bar safety relief valve
313430	½" F x F 3 bar safety relief valve with pressure gauge
A314437 CST	½" M x F 3 bar safety relief valve with gauge port only
313530	¾" F x F 3 bar safety relief valve with gauge
A312401 CST	½" 3 bar safety relief valve
A312438 CST	½" pushfit x ½" M 3 bar safety relief valve
WI-557204	pressure gauge for robokit
RS-MB	vessel mounting bracket 4 ltr - 24 ltr heating vessels
303915	roboquattro - 4 way manifold and double check valve
CA-100700	hydro pro bracket (35 ltr only)



### filling loops

Ref. no	Description
CA-300001	robofil auto-fill loop complete with PRV
CA-300606	ecofil plus filling loop (G24 approved)
CA-300611	ecofil plus filling loop (G24 approved) with caps and collars
YU-JQAL304	cap and collar for filling loop
JJ-300608	robofil (poly bag - as with robokit) *

- Used to fill sealed systems from the mains cold water
  - 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



### Zilmet OEM - pro heating vessels

Ref. no	Capacity	Model	Description mm	Width mm	Height mm	Length
ZI-305012	12 ltr	531	round flat exp vessel	387 Ø	140	n/a
ZI-305018	18 ltr	531	round flat exp vessel	387 Ø	200	n/a
ZI-306008	8 ltr	541	round flat exp vessel	324 Ø	129	n/a
ZI-306010	10 ltr	541	round flat exp vessel	324 Ø	139	n/a
ZI-306012	12 ltr	541	round flat exp vessel	324 Ø	169	n/a
ZI-304006	6 ltr	537	rectangular flat exp vessel	490	105	200
ZI-304012.3.4	12 ltr	537	rectangular flat exp vessel	490	170	200

- Flat vessels for expansion on heating systems and boiler



# pressurisation units



## pressure gauges 50mm Ø dial

Ref. no	Description
WI-557104	0 - 4 bar 1/4" back connection 50mm dial Ø
WI-557204	0 - 4 bar 1/4" offset back connection 50mm dial Ø
WI-557304	0 - 4 bar 1/4" bottom connection 50mm dial Ø
WI-557306	0 - 6 bar 1/4" bottom connection 50mm dial Ø
WI-557106	0 - 6 bar 1/4" back connection 50mm dial Ø
WI-557310	0 - 10 bar 1/4" bottom connection 50mm dial Ø

- 50mm dial, ABS black case with red pointer
- 1/4" BSP connection
- Working temperature -20°C / +80°C



## pressure gauges 63mm Ø dial

Ref. no	Description
WI-557410	0 - 10 bar back connection

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



## matrix pressurisation units

Ref. no	Description
MI-100001	matrix standard pressurisation unit floor standing
MI-100002	matrix compact pressurisation unit wall mounted

- Twin pump units available on request

The matrix standard and matrix compact pressurisation sets are fully packaged, suitable for use in close circuit heating systems. The units are supplied in a high quality zinc coated steel casing, finished in a textured white stove enamelled epoxy powder coating.

## hydro-pro fixed membrane

Ref. no	Capacity	Dimensions	Connection
ZI-30002S	2 litre	140 x 228mm	½"
ZI-300005WH	5 litre	160 x 301mm	¾"
ZI-300008WH	8 litre	200 x 298mm	¾"
ZI-300012WH	12 litre	274 x 328mm	¾"
ZI-300018WH	18 litre	274 x 361mm	¾"
ZI-300024WH	24 litre	300 x 441mm	1"
ZI-11A0003500	35 litre no base	380 x 400mm	1"
ZI-11A0005000	50 litre vertical	380 x 537mm	1"
ZI-11A0005002	50 litre horizontal	380 x 537mm	1"
ZI-11A0008000	80 litre	450 x 600mm	1"
ZI-11A0010500	105 litre	500 x 665mm	1¼"
ZI-11A0015000	150 litre	500 x 895mm	1¼"
ZI-11A0020000	200 litre	600 x 812mm	1¼"
ZI-11A0025000	250 litre	630 x 1005mm	1¼"
ZI-11A0030000	300 litre	630 x 1105mm	1¼"
ZI-11A0040000	400 litre	630 x 1450mm	1¼"
ZI-11A0060000	600 litre	750 x 1620mm	1¼"

- Fixed diaphragm expansion vessel for potable water systems
- Working temperature -10°C to 99°C
- Working pressure 10 bar
- Test pressure 15 bar



# potable water systems & expansion vessels

## accessories for expansion vessels

Ref. no	Description
RS-MB2	hydro-pro bracket (5-19 litre only)
RS-MB24	hydro-pro bracket (24 litre only)
CA-100700	bracket for 35ltr hydro-pro



## inox-pro stainless steel expansion vessels for potable water

Ref. no	Capacity	Dimensions	Description	Connection
ZI-300016S/S	0.16 litre	86 x 122mm	polished finish	½"
ZI-300050S/S	0.5 litre	94 x 166mm	polished finish	½"
ZI-300001S/S	1 litre	116 x 196mm	polished finish	½"
ZI-300002(P)	2 litre	140 x 228mm	polished finish	½"
ZI-300016S/S.1.4	0.16 litre	86 x 122mm	dull finish	¼"
ZI-300016S/S.D	0.16 litre	86 x 122mm	dull finish	½"
ZI-300050S/S.D	0.5 litre	94 x 166mm	dull finish	½"
ZI-300001S/S.D	1 litre	116 x 196mm	dull finish	½"
ZI-300012	12 litre	234 x 238mm	polished finish	¾"
ZI-300118	18 litre	274 x 361mm	polished finish	1"
ZI-322551	24 litre	270 x 480mm	polished finish	1"
ZI-316160	60 litre (vertical)	380 x 850mm	polished finish	1"

- Capacity from 0.16 litres to 60 litres
- Fixed diaphragm, suitable for temperatures up to 99°C
- Max working pressure 10 bar
- Testing pressure 15 bar
- For use in aggressive water conditions
- Not for use with deionised water



shock arrester

Ref. no	Description	Box quantity
525040	½" BSP mechanical type	25
ZI-300016S/S	½" BSP pneumatic type	100



zilflex 16 bar expansion vessels with interchangeable membrane

Ref. no	Capacity	Horizontal	Diameter /Vertical	Height	Connection
ZI-311020	24 litre with legs	horizontal	270 mm	480 mm	1"
ZI-311001	100 litre	vertical	450 mm	950 mm	1"
ZI-311002	200 litre	vertical	520 mm	1220 mm	1½"
ZI-311003	300 litre	vertical	630 mm	1370 mm	1½"
ZI-311005	500 litre	vertical	750 mm	1600 mm	1½"
ZI-311075	750 litre	vertical	750 mm	2140 mm	1½"
ZI-311011	1000 litre	vertical	850 mm	2070 mm	1½"

- Capacity from 24 litres to 1000 litres
- Interchangeable rubber membrane
- Galvanised carbon steel flange
- Max working pressure 16 bar (vertical only)



# potable water systems & expansion vessels

## ultra pro expansion vessel with interchangeable membrane



Ref. no	Capacity	Horizontal /Vertical	Diameter	Height	Connection
ZI-11H0000803	8 litre	hori / vert*	204 mm	320 mm	¾"
ZI-1100001215	12 litre	hori / vert*	283 mm	310 mm	¾"
ZI-1100001940	19 litre	hori / vert*	277 mm	420 mm	¾"
ZI-332551	24 litre	horizontal	270 mm	480 mm	¾"
ZI-318051	50 litre	horizontal	380 mm	540 mm	1"
ZI-318061	60 litre	horizontal	380 mm	680 mm	1"
ZI-318081	80 litre	horizontal	450 mm	640 mm	1"
ZI-318101	100 litre	horizontal	450 mm	765 mm	1"
ZI-318201	200 litre	horizontal	550 mm	1089 mm	1½"
ZI-318301	300 litre	horizontal	630 mm	1237 mm	1½"
ZI-318050	50 litre	vertical	380 mm	770 mm	1"
ZI-318060	60 litre	vertical	380 mm	850 mm	1"
ZI-318080	80 litre	vertical	450 mm	850 mm	1"
ZI-318100	100 litre	vertical	450 mm	935 mm	1"
ZI-318200	200 litre	vertical	550 mm	1253 mm	1½"
ZI-318300	300 litre	vertical	630 mm	1370 mm	1½"
ZI-318500	500 litre	vertical	750 mm	1600 mm	1½"
ZI-318750	750 litre	vertical	750 mm	2140 mm	1½"
ZI-3181000	1000 litre	vertical	850 mm	2700 mm	1½"

- Capacity from 24 litres to 1000 litres, stainless steel flange
- Working temperature -10°C to 99°C
- Working pressure 10 bar, testing pressure 15 bar, except for the 1000 litre which has a working pressure of 8 bar
- Pre-charge pressure 2 bar dependent on capacity



## hy-pro epdm stainless steel flange

Ref. no	Capacity	Diameter	Height	Connection
ZI-11H0001202	12 litre	270 mm	296 mm	¾"
ZI-11H0001902	19 litre	270 mm	390 mm	¾"
ZI-11H0002402	24 litre	270 mm	461 mm	¾"

- Interchangeable rubber membrane
- Working temperature -10°C to 99°C
- Max working pressure 10 bar tested to 15 bar





replacement membranes

Ref. no	Capacity	Description
ZI-342020	24 litre	butyl membrane
ZI-342080	50-60-80 litre	butyl membrane
ZI-342100	100 litre	butyl membrane
ZI-342200	200 litre	butyl membrane
ZI-342300	300 litre	butyl membrane
ZI-342500	500 litre	butyl membrane
ZI-342750	750-1000 litre	butyl membrane

- To suit ultra pro vessels



water heater accessory packs

Ref. no	Description
CA-100148	<b>water heater pack 1 includes:</b> 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
CA-100149	<b>water heater pack 2 includes:</b> 1 x expansion vessel 2 litre, 1 x 1/2" safety valve, 1 x 15mm single check valve
CA-100150	<b>water heater pack 4 includes:</b> 1 x 1/2" PRV at 3.5 bar, 1 x expansion vessel 2 litre, 1 x 15mm single check valve
CA-100151	<b>water heater pack 5 includes:</b> 1 x expansion vessel 2 litre, 1 x 15mm single check valve
CA-100025	<b>water heater pack 6 includes:</b> 1 x 22mm x 3/4" PRV at 3.5 bar, 1 x SRV push fit at 6 bar

Installation packs suitable for installation of single / multipoint water heaters.



# potable water systems & expansion vessels



## temperature / pressure relief valves

Ref. no	Description	Box quantity
309440 CST	½" 4 bar 90°C	20
309470 CST	½" 7 bar 90°C	20
309400 CST	½" tapered thread 10 bar 90°C	20
309500 CST	¾" 10 bar 90°C	20
309570 CST	¾" 7 bar 90°C	20
309473 CST	½" parallel thread 7 bar 90°C	20

Pressure and temperature relief valves for use when the system calls for two controls. Designed for use on unvented hot water supply systems.



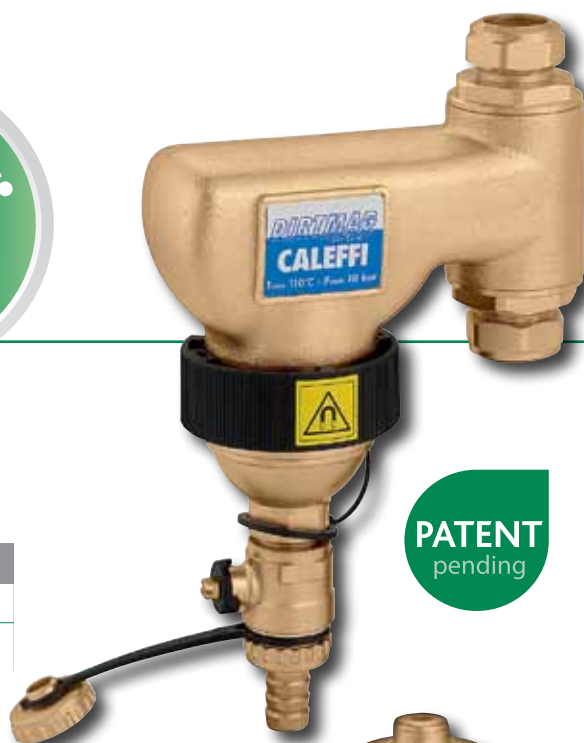
## tundishes

Ref. no	Description
* AP-400001	½" M x ¾" F plastic angle tundish
* AP-400002	¾" M x 1" F plastic angle tundish
* AP-400003	¾" M x ½" F plastic straight tundish
* AP-400010	15mm x 22mm straight tundish with plastic nuts
552140	½" angle aluminium tundish M x F
552150	¾" angle aluminium tundish M x F
552160	1" x 1¼" angle aluminium tundish M x F
552050	¾" straight aluminium tundish F x F
552070	1¼" straight aluminium tundish F x F
CA-100113	22mm x 1" F plastic straight tundish with nut and olive

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



# DIRTMAG®



**PATENT**  
pending

## DIRTMAG® (vertical)

Ref. no	Size	Connections	Type
546802	22mm	copper x copper	compression
546803	28mm	copper x copper	compression

## DIRTMAG® (horizontal)

Ref. no	Size	Connections	Type
ALT-546322	22mm	copper x copper	compression
ALT-546328	28mm	copper x copper	compression
546305	¾"	screwed iron	F x F
546306	1"	screwed iron	F x F
546307	1¼"	screwed iron	F x F
546308	1½"	screwed iron	F x F
546309	2"	screwed iron	F x F



## DIRTMAG® (horizontal c/w insulation cover)

Ref. no	Size	Connections	Type
546315	¾"	screwed iron	F x F
546316	1"	screwed iron	F x F
546317	1¼"	screwed iron	F x F
546318	1½"	screwed iron	F x F
546319	2"	screwed iron	F x F



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

## DIRTMAG® accessories

Ref. no	Description
ALT-DM37322	DirtMag 22mm Isolation Valves (Pair)
ALT-DM37328	DirtMag 28mm Isolation Valves (Pair)
ALT-DM1MHOSE	DirtMag Discharge Hose



# air venting and removal



## check valves for automatic air vents

Ref. no	Size	Type	Max working pressure	Max working Temperature	Box quantity
561230	1/4" x 3/8"	check valve	10 bar	115°C	100
561300	3/8" x 3/8"	check valve	10 bar	115°C	100
561340	3/8" x 1/2"	check valve	10 bar	115°C	100
561400	1/2" x 1/2"	check valve	10 bar	115°C	100
508011	1/8"	hygroscopic air vent	10 bar	100°C	100
508021	1/4"	hygroscopic air vent	10 bar	100°C	100
508031	3/8"	hygroscopic air vent	10 bar	100°C	100
508041	1/2"	hygroscopic air vent	10 bar	100°C	100
337121	1/4"	man air vent/drain	6 bar	85°C	200
337131	3/8"	man air vent/drain	6 bar	85°C	200

automatic air vents

Ref. no	Size	Type	Discharge Pressure	Max working Temperature	Box quantity
502649	15mm	robocal	6 bar	115°C	100
502420	¼"	robocal	4 bar	115°C	50
502430	⅜"	robocal	4 bar	115°C	50
502630	⅜"	robocal	6 bar	115°C	100
502640	½"	robocal	6 bar	115°C	100
502730	⅜"	robocal/ check valve	6 bar	115°C	100
502530	⅜"	robocal/ check valve	4 bar	115°C	100
CA-100099	⅜"	robocal/ check valve ½"	6 bar	115°C	100
502030	⅜"	minical	2.5 bar	120°C	100
502040	½"	minical	2.5 bar	120°C	100
502130	⅜"	minical/ check valve	2.5 bar	120°C	100
502050	¾"	minical/ hygroscopic cap	2.5 bar	120°C	100
502060	1"	minical/ hygroscopic cap	2.5 bar	120°C	100
501500	¾"	maxcal	6 bar	120°C	1
504401	½"	aercal	2.5 bar	120°C	25
250031	⅜"	for solar heating	10 bar	150°C	50

- The range of automatic air vents is operated via a float mechanism and is designed for the removal of air from systems



discal air automatic air vents

Ref. no	Size	Type	Discharge Pressure	Max working Temperature	Box quantity
551004	½"	F	10 bar	110°C	10



# air venting and removal



## discal automatic air separators

Ref. no	Size	Connections	Type	Weight kg
551002	22mm	copper x copper - without drain	comp	0.90
551003	¾"	screwed iron - without drain	F x F	0.90
551005	¾"	screwed iron	F x F	1.70
551006	1"	screwed iron	F x F	1.70
551007	1¼"	screwed iron	F x F	2.20
551008	1½"	screwed iron	F x F	2.20
551009	2"	screwed iron	F x F	2.50
551050	DN50	flange x flange	PN16	15.00
551060	DN65	flange x flange	PN16	15.50
551080	DN80	flange x flange	PN16	28.00
551100	DN100	flange x flange	PN16	30.00
551905	¾"	screw iron	F x F	2.05
551906	1"	screw iron	F x F	2.05
551902	22mm	copper x copper	comp	2.05
551052	DN50	flange x flange	PN16	15.00
551062	DN65	flange x flange	PN16	115.50
551082	DN80	flange x flange	PN16	28.00
551102	DN100	flange x flange	PN16	30.00
551122	DN125	flange x flange	PN16	48.00
551152	DN150	flange x flange	PN16	53.00
551053	DN50	welded socket x welded socket	weld	9.30
551063	DN65	welded socket x welded socket	weld	9.40
551083	DN80	welded socket x welded socket	weld	20.00
551103	DN100	welded socket x welded socket	weld	21.00
551123	DN125	welded socket x welded socket	weld	35.00
551153	DN150	welded socket x welded socket	weld	38.00

- The discal range of air eliminators are designed for use with heating circuits to provide an efficient method of air removal
- Maximum working pressure 10 bar
- Maximum working temperature 110°C
- Maximum glycol concentration 50%

### discal dirt and air separators

Ref. no	Size	Connections	Type	Weight kg
546050	DN50	flange x flange	PN16	18.00
546060	DN65	flange x flange	PN16	19.00
546080	DN80	flange x flange	PN16	33.00
546100	DN100	flange x flange	PN16	35.00
546120	DN125	flange x flange	PN16	82.00
546150	DN150	flange x flange	PN16	35.00
546051	DN50	welded socket x welded socket	PN16	16.50
546061	DN65	welded socket x welded socket	PN16	16.50
546081	DN80	welded socket x welded socket	PN16	28.00
546101	DN100	welded socket x welded socket	PN16	29.00
546121	DN120	welded socket x welded socket	PN16	70.00
546151	DN150	welded socket x welded socket	PN16	70.00

- The discal 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
- Maximum working pressure 10bar
- Maximum working temperature 110°C
- Maximum glycol concentration 50%

### dirtcal dirt separators

Ref. no	Size	Connections	Type
546205	¾"	screwed iron	F x F
546206	1"	screwed iron	F x F
546207	1¼"	screwed iron	F x F
546208	1½"	screwed iron	F x F
546209	2"	screwed iron	F x F
546550	DN50	flange x flange	PN16
546560	DN65	flange x flange	PN16
546580	DN80	flange x flange	PN16
546510	DN100	flange x flange	PN16
546512	DN125	flange x flange	PN16
546515	DN150	flange x flange	PN16
546905	¾"	screwed iron	F x F
546906	1"	screwed iron	F x F
546902	22mm	compression	copper x copper

- The discal range of dirt separators are designed for use on heating and air conditioning systems to provide an efficient method of dirt removal
- Maximum working pressure 10bar
- Maximum working temperature 110°C
- Maximum glycol concentration 50%



# air venting and removal



## discal dirt and air separators



Ref. no	Size	Connections	Type	Weight kg
546002	22mm	copper x copper	PN10	3.00
546005	¾"	screwed iron F x F	PN16	2.90
546006	1"	screwed iron F x F	PN10	2.90
546052	DN50	flange x flange (cw insulation)	PN16	18.00
546062	DN65	flange x flange (cw insulation)	PN16	19.00
546082	DN80	flange x flange (cw insulation)	PN16	33.00
546102	DN100	flange x flange (cw insulation)	PN16	35.00
546122	DN125	flange x flange (cw insulation)	PN16	82.00
546152	DN150	flange x flange (cw insulation)	PN16	85.00
546053	DN50	welded socket x welded socket	PN10	13.00
546063	DN65	welded socket x welded socket	PN10	13.00
546083	DN80	welded socket x welded socket	PN10	25.00
546103	DN100	welded socket x welded socket	PN10	25.00
546123	DN125	welded socket x welded socket	PN10	70.00
546153	DN150	welded socket x welded socket	PN10	70.00

- Range of dirt and air separators for use in commercial applications
- The discal 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
- Maximum working pressure 10bar
- Maximum working temperature 110°C
- Maximum glycol concentration 50%



## hydraulic separator

Ref. no	Size	Connections	Type
548006	1"	screwed iron	PN16
548007	1¼"	screwed iron	PN16
548008	1½"	screwed iron	PN16
548009	2"	screwed iron	PN16
548052	DN50	flange x flange	PN16
548062	DN65	flange x flange	PN16
548082	DN80	flange x flange	PN16
548102	DN100	flange x flange	PN16
548122	DN125	flange x flange	PN16
548152	DN150	flange x flange	PN16
548200	DN200	flange x flange	PN10
548250	DN250	flange x flange	PN10
548300	DN300	flange x flange	PN10

### 548 series screwed iron

- Hydraulic separator. Connections 1" F (from 1" to 2") with union
- Epoxy resin coated steel body
- Medium water and non-hazardous glycol solutions excluded from the guidelines of EC directive 67/548
- Maximum percentage of glycol 30%
- Maximum working pressure 10 bar
- Working temperature range 0–110°C

### 548 series flange

- Hydraulic separator. Flanged connections DN 50 (from DN 50 to DN 150) PN 16, DN 200 (from DN 200 to 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.
- Maximum percentage of glycol 30%
- Maximum working pressure 10 bar
- Working temperature range 0–110°C

## sepcoll hydraulic separator manifold

Ref. no	Description
559021	2 + 1 built in version with preformed insulation
559121	2 + 1 in manifold cabinet with preformed insulation
559022	2 + 2 external use with preformed insulation and brackets
559031	3 + 1 external use with preformed insulation and brackets

- Maximum working pressure : 6 bar
- Working temperature range : 0 - 100°C
- With a hot preformed insulation shell in closed cell expanded PEX
- Complete with fixing brackets



# safety relief valves



## safety relief valves series 311

Ref. no	Size	Series type	Pressure setting bar	Weight kg	Box quantity
311425	½" x ½"	311 - F x F	2.50	0.13	50
311430	½" x ½"	311 - F x F	3.00	0.13	50
311460	½" x ½"	311 - F x F	6.00	0.13	50
311470	½" x ½"	311 - F x F	7.00	0.13	50
311480	½" x ½"	311 - F x F	8.00	0.13	50
311525	¾" x ¾"	311 - F x F	2.50	0.20	50
311530	¾" x ¾"	311 - F x F	3.00	0.20	50
311560	¾" x ¾"	311 - F x F	6.00	0.20	50
311570	¾" x ¾"	311 - F x F	7.00	0.20	50
311580	¾" x ¾"	311 - F x F	8.00	0.20	50



## safety relief valves series 312

Ref. no	Size	Series type	Pressure setting bar	Weight kg	Box quantity
312405 CST	½" x ½"	312 - M x F	4.00	0.20	50
312425	½" x ½"	312 - M x F	2.50	0.13	50
312430	½" x ½"	312 - M x F	3.00	0.13	50
312460	½" x ½"	312 - M x F	6.00	0.13	50
312470	½" x ½"	312 - M x F	7.00	0.13	50
312480	½" x ½"	312 - M x F	8.00	0.13	50



## safety relief valves series 313

Ref. no	Size	Series type	Pressure setting bar	Weight kg	Box quantity
313425	½" x ½"	313 - F x F	2.50	0.15	50
313430	½" x ½"	313 - F x F	3.00	0.15	50
313460	½" x ½"	313 - F x F	6.00	0.15	50
313470	½" x ½"	313 - F x F	7.00	0.15	50
313480	½" x ½"	313 - F x F	8.00	0.15	50
313525	¾" x ¾"	313 - F x F	2.50	0.18	50
313530	¾" x ¾"	313 - F x F	3.00	0.18	50
313560	¾" x ¾"	313 - F x F	6.00	0.18	50
313570	¾" x ¾"	313 - F x F	7.00	0.18	50
313580	¾" x ¾"	313 - F x F	8.00	0.18	50
A312401 CST	½" x ½"	pushfit x F	3.00	0.18	65
A312438 CST	½" x ½"	pushfit x M	3.00	0.18	65



## safety relief valves series 314

Ref. no	Size	Series type	Pressure setting bar	Weight kg	Box quantity
314425	½" x ½"	314 - M x F	2.50	0.24	50
314430	½" x ½"	314 - M x F	3.00	0.24	50
314460	½" x ½"	314 - M x F	6.00	0.24	50
314480	½" x ½"	314 - M x F	8.00	0.24	50
A314437 CST	½" x ½"	314 - M x F	3.00	0.24	48

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## safety relief valves series 513

Ref. no	Size	Series type	Pressure setting bar	Weight kg	Box quantity
513425	½" x ½"	513 - F x F	2.50	0.18	50
513430	½" x ½"	513 - F x F	3.00	0.18	50
513460	½" x ½"	513 - F x F	6.00	0.18	50
513470	½" x ½"	513 - F x F	7.00	0.18	50
513480	½" x ½"	513 - F x F	8.00	0.18	50
513625	1" x 1¼"	513 - F x F	2.50	0.84	50
513630	1" x 1¼"	513 - F x F	3.00	0.84	50
513660	1" x 1¼"	513 - F x F	6.00	0.84	50
513670	1" x 1¼"	513 - F x F	7.00	0.18	50
513680	1" x 1¼"	513 - F x F	8.00	0.84	50
513725	1¼" x 1½"	513 - F x F	2.50	2.07	50
513730	1¼" x 1½"	513 - F x F	3.00	2.07	50
513760	1¼" x 1½"	513 - F x F	6.00	2.07	50
513770	1¼" x 1½"	513 - F x F	7.00	2.07	50
513780	1¼" x 1½"	513 - F x F	8.00	2.07	50



## safety relief valves series 514

Ref. no	Size	Series type	Pressure setting bar	Weight kg	Box quantity
514425	½" x ½"	514 - M x F	2.50	0.18	50
514430 CST	½" x ½"	514 - M x F	3.00	0.18	50
514460	½" x ½"	514 - M x F	6.00	0.18	50



# backflow preventors



## RPZ valves

Ref. no	Size	Description	Type
574040	1/2"	screwed iron	M x M
574050	3/4"	screwed iron	M x M
574600	1"	screwed iron	M x M
574700	1 1/4"	screwed iron	M x M
574800	1 1/2"	screwed iron	M x M
574900	2"	screwed iron	M x M
575006	DN65	flange	ISO 7001 - 1 PN16 flange
575008	DN80	flange	ISO 7001 - 1 PN16 flange
575010	DN100	flange	ISO 7001 - 1 PN16 flange

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



- Maximum pressure at inlet : 16 bar
- Maximum working temperature : 65°C
- Complete list of spares available

## RPZ valves - complete assemblies

Ref. no	Size	Description	Type
570004	1/2"	screwed iron	complete with RPZ, isolation valve & strainer
570005	3/4"	screwed iron	complete with RPZ, isolation valve & strainer
570006	1"	screwed iron	complete with RPZ, isolation valve & strainer
570007	1 1/4"	screwed iron	complete with RPZ, isolation valve & strainer
570008	1 1/2"	screwed iron	complete with RPZ, isolation valve & strainer
570009	2"	screwed iron	complete with RPZ, isolation valve & strainer

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

- Maximum pressure at inlet : 16 bar
- Maximum working temperature : 65°C
- Complete list of spares available



## single check valves

Ref. no	Description
BI-100034*	15mm nickel plated



## double check valves complete with isolator

Ref. no	Description
303615	15mm double check c/w isolating valve nickel plated DZR body



## double check valves

Ref. no	Description
AI-903215	15mm nickel plated DZR body
AI-903222	22mm nickel plated DZR body
AI-903228	28mm nickel plated DZR body
AI-903032	1¼" F/F double check valve DZR
AI-903040	1½" F/F double check valve DZR
AI-903050	2" F/F double check valve DZR



## non return valves

Ref. no	Description
BA-032015000	15mm brass
BA-032022000	22mm brass
BA-032028000	28mm brass



# backflow preventors



## non return valves

Ref. no	Size	Connections	Type	Weight kg
BA-300020	¼"	screwed iron	F x F	0.09
BA-300030	⅜"	screwed iron	F x F	0.75
BA-300040	½"	screwed iron	F x F	0.10
BA-300050	¾"	screwed iron	F x F	0.15
BA-300060	1"	screwed iron	F x F	0.25
BA-300070	1¼"	screwed iron	F x F	0.35
BA-300080	1½"	screwed iron	F x F	0.47
BA-300090	2"	screwed iron	F x F	0.71
BA-300100	2½"	screwed iron	F x F	1.26
BA-300110	3"	screwed iron	F x F	1.81
BA-300120	4"	screwed iron	F x F	3.10

- Spring loaded universal check valve with soft seating and stainless steel spring
- Other models available on request
- Maximum working pressure ¼" - 1" : 16 bar, 1¼" - 2" : 10 bar, 2½" - 4" : 8 bar
- Maximum working temperature : 110°C



## ballstops

Ref. no	Size	Connection	Handle type	Type	Weight kg
323040	½"	screwed iron	butterfly	F x F	0.28
323050	¾"	screwed iron	butterfly	F x F	0.37
323060	1"	screwed iron	butterfly	F x F	0.63
323070	1¼"	screwed iron	lever	F x F	1.01
323080	1½"	screwed iron	lever	F x F	1.60
323090	2"	screwed iron	lever	F x F	2.80
332400	½"	screwed iron	butterfly	M x F	0.40
333500	¾" x ¾"	screwed iron	butterfly	F x F Sw	0.42
334500	¾" x ¾"	screwed iron	butterfly	M x F Sw	0.42

- The ballstop range of in line lever ball valves with an integrated check valve situated within the ball of the valve
- Maximum working pressure : 16 bar
- Maximum working temperature : 95°C



## foot filters

Ref. no	Size	Box quantity
BA-030015000	½"	50
BA-030020000	¾"	25
BA-030025000	1"	20
BA-030032000	1 ¼"	10
BA-030040000	1 ½"	8
BA-030050000	2"	5
BA-030065	2 ½"	5
BA-03008000	3"	3
BA-030100	4"	2

- For use with our non-return valves

## room thermostats

Ref. no	Description
IM-100077	240v SP 5/30°C
IM-TA2/544819	240v frost stat, tamper proof cover



## surface contact thermostats

Ref. no	Description
IM-BRC/545830	20/90°C 240v cylinder/pipe thermostat grey



## immersion thermostat - 1/2" pocket adjustable

Ref. no	Description
IM-TC2/542470	0°/90°C adjustable 100mm stem SPDT grey

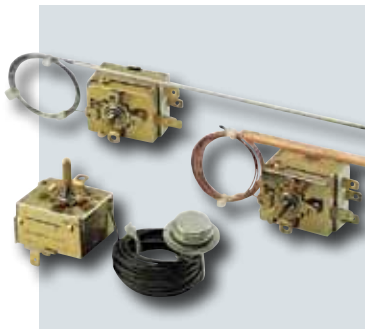


## dual immersion thermostat - 1/2" pocket x 120mm stem

Ref. no	Description
IM-TLSC/542816	60/90°C grey / adjustable limit / manual reset grey



# thermostats



## control thermostats

Ref. no	Description
IM-TR2/540043	-35/+35°C 1m cap SPDT
IM-TR2/540030	0/40°C 1m cap SPDT
IM-TR2/540010	0/90°C 1m cap SPDT
IM-TR2/540310	0/90°C 2m cap SPDT
IM-TR2/540160	0/120°C 1m cap SPDT
IM-TR2/540140	40/210°C 1m cap SPDT
IM-TR2/540020	50/300°C 1m cap SPDT





- Panel mounting, liquid filled capillary and sensing element  
**(not including knobs and bezels)**



## safety limit thermostats

Ref. no	Description
IM-LSI/541510	adjustable 90/110°C - 15a / 250v / manual reset



				
merchant mixing valves - Art 5213	✓	✓	✓	
DTC 45-65° tempering valve - Art 5218				✓
mixcal mixpro® - Art 5230	✓	✓		
OEM thermostatic mixing valve - Art 5219	✓	✓		
mixcal III thermostatic fail safe mixing valve - Art 5211	✓	✓		
careflo thermostatic fail safe mixing valve - Art 5212	✓		✓	

## merchant mixing valves - Art 5213

Ref. no	Size	Connections	Type
CA-100822	15mm	copper x copper	compression
CA-100824	22mm	copper x copper	compression
CA-100827	15mm	copper x copper	compression inc. MX service valves
CA-100828	22mm	copper x copper	compression inc. MX service valves



The merchant fail safe 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 care homes.



- Temperature setting range: 30 – 50°C
- Temperature stability: ±2°C
- Max. working pressure (static): 10 bar
- Max. working pressure (dynamic): 5 bar
- Max. inlet temperature: 85°C
- Max. inlet pressure ratio (H/C or C/H): 6:1
- Minimum temperature difference between the inlet hot water and the outlet mixed water to ensure anti scald performance: 10°C
- Minimum flow rate for stable operation: 4 l/min

## MX valves (For use with Art 5213)

Ref. no	Description
AI-499A05BAG	15mm intaball MX with Pressure / Temperature Test Point and Black Lever (Pair)
AI-499A06BAG	22mm intaball MX with Pressure / Temperature Test Point and Black Lever (Pair)
AI-496A05BAG	15mm intaball MX with Black Lever (Pair)
AI-496A06BAG	22mm intaball MX with Black Lever (Pair)

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



# thermostatic mixing valves



## DTC 45-65° tempering valve - Art 5218

Ref. no	Size	Connections	Type
521814	½"	screwed iron	domestic tempering valve
521815	¾"	screwed iron	domestic tempering valve
521816	1"	screwed iron	domestic tempering valve
521817	15mm	copper x copper	domestic tempering valve
521818	22mm	copper x copper	domestic tempering valve
521819	28mm	copper x copper	domestic tempering valve

- Maximum inlet pressure 10 bar static, 5 bar Dynamic
- Maximum inlet temperature 90°C
- Maximum pressure ratio H/C or C/H 2:1
- Minimum temperature difference between hot water inlet and mixed water outlet for best performance 10°C
- Temperatures setting range 45-65°C
- BS EN set temperature range 45-65°C
- Set water temperature 55-65°C
- Accuracy ±2°C
- Minimum flow rate for stable operation 4 l/m- ½" and ¾" sizes, 6 L/M -1" size



## mixcal mixpro® - Art 5230

Ref. no	Size	Connections	Type
523040*	½"	screwed iron	M x M x M without check valves
523050*	¾"	screwed iron	M x M x M without check valves
523060	1"	screwed iron	M x M x M without check valves
523070	1¼"	screwed iron	M x M x M without check valves
523080	1½"	screwed iron	M x M x M without check valves
523090	2"	screwed iron	M x M x M without check valves
523053	¾"	screwed iron	M x M x M with check valves
523063	1"	screwed iron	M x M x M with check valves
523073	1¼"	screwed iron	M x M x M with check valves
523052*	22mm	compression	Cu x Cu x Cu with check valves
523062	28mm	compression	Cu x Cu x Cu with check valves

The new mixcal mixpro® range of thermostatic mixing valves is designed for use on centralised and general mixing valve applications.

- Temperature adjust range : 30 - 65°C
- Temperature control : ±2°C
- Maximum hot inlet temperature : 85°C



**OEM thermostatic mixing valve - Art 5219**

Ref. no	Size	Connections	Type
521331 CST	G½" /15mm	F x F x F/copper	oem mixing valve - pre-set at 61°C
521931 CST	G½" /15mm	F x F x F/copper	oem mixing valve - 35/65°C

- Maximum inlet temperature 85°C
- Maximum working pressure 10 bar
- Temperature adjustment 30-65°C



**mixcal III thermostatic fail safe mixing valve - Art 5211**

Ref. no	Description	Box quantity
521115	15mm mixcal III	10
521122	22mm mixcal III	10
CA-MX5115	15mm MX mixcal III	10
CA-MX5122	22mm MX mixcal III	10
CA-100224	mixcal III service kit	1

Fail safe thermostatic mixing valve, complies with the requirements of EN 1287.

- Temperature adjust range : 30 - 65°C
- Temperature control : ±2°C
- Maximum hot inlet temperature : 85°C
- Minimum temperature differential requirement for fail safe : 10°C



**careflo thermostatic fail safe mixing valve - Art 5212**

Ref. no	Description	Box quantity
521215	15mm mixcal careflo	10
521222	22mm mixcal careflo	10
CA-MX5215	15mm MX mixcal careflo	10
CA-MX5222	22mm MX mixcal careflo	10
CA-100065	15mm conversion kit	1
CA-100066	22mm conversion kit	1
CA-100147	careflo service kit	1

The mixcal careflo fail safe 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 care homes.

- Temperature adjust range : 30 - 50°C
- Temperature control : ±2°C
- Maximum hot inlet temperature : 85°C
- Minimum temperature differential requirement for fail safe : 10°C



# thermostatic mixing valves



## MX valves (For use with Art 5211 & 5212)

Ref. no	Description
AI-495015	pair of 15mm MX valves Art 5212 and mixcal III
AI-495022	pair of 22mm MX valves Art 5212 and mixcal III

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



## antiscald device

Ref. no	Size	Type	Description
600140	½"	M x F	antiscald device hot water @ 48°C

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



## thermostatic blending valves - non fail safe valves for general use

Ref. no	Size	Description	Box quantity
520430	½"	30 - 48°C	20
520440	½"	40 - 60°C	20
520530	¾"	30 - 48°C	20
520540	¾"	40 - 60°C	20
520630	1"	30 - 48°C	20
520640	1"	40 - 60°C	20

## accessories for thermostatic mixing valves



Ref. no	Description
CA-100147	careflo service kit
CA-100065	15mm conversion kit
CA-100066	22mm conversion kit
CA-100000	¼" temperature measuring point
CA-100224	mixcal III service kit
CA-5215INT	15mm merchant mixing valve service kit
CA-5222INT	22mm merchant mixing valve service kit

## prescal - series 533 pressure reducing valves

Ref. no	Size	Connections	Type	Weight kg
533641	15mm	copper x copper	compression	0.41
533651	22mm	copper x copper	compression	0.45
533741	15mm	copper x copper	compression with gauge port	0.46
533751	22mm	copper x copper	compression with gauge port	0.51
533841	15mm	copper x copper	compression with pressure gauge	0.55
533851	22mm	copper x copper	compression with pressure gauge	0.57
533041	½"	screwed iron	F x F	0.39
533051	¾"	screwed iron	F x F	0.42
533441	½"	screwed iron	F x F - with gauge port	0.45
533451	¾"	screwed iron	F x F - with gauge port	0.46
533241	½"	screwed iron	F x F - with pressure gauge	0.51
533251	¾"	screwed iron	F x F - with pressure gauge	0.52
533151	¾"	screwed iron	M x F swivel	0.46
CA-100594	22mm	copper x copper	22mm x 15mm pressure reducer	0.60
533461	1"	screwed iron	F x F - with gauge port	0.76



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



- Maximum pressure at inlet : 12 bar
- Maximum working temperature : 65°C
- Outlet adjustment range : 1 - 6 bar **(dynamic control only)**

# pressure reducing valves

## prescal - series 535 dial up pressure reducing valve

Ref. no	Size	Connections	Type	Weight kg
535022	22mm	compression	without pressure gauge	0.73
535041	½"	screwed iron	M x M - with pressure gauge	0.90
535051	¾"	screwed iron	M x M - with pressure gauge	1.06
535061	1"	screwed iron	M x M - with pressure gauge	1.37
535071	1¼"	screwed iron	M x M - with pressure gauge	3.18
535081	1½"	screwed iron	M x M - with pressure gauge	3.67
535091	2"	screwed iron	M x M - with pressure gauge	4.93
535040	½"	screwed iron	M x M - without pressure gauge	0.82
535050	¾"	screwed iron	M x M - without pressure gauge	0.98
535060	1"	screwed iron	M x M - without pressure gauge	1.30
535070	1¼"	screwed iron	M x M - without pressure gauge	3.06
535080	1½"	screwed iron	M x M - without pressure gauge	3.55
535090	2"	screwed iron	M x M - without pressure gauge	4.78

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

- Maximum pressure at inlet : 16 bar
- Maximum working temperature : 60°C
- Outlet adjustment range : 1 - 6 bar (**dynamic and static control**)



## prescal - series 536 pressure reducing valve

Ref. no	Size	Connections	Type	Weight kg
536040	½"	screwed iron	M x M - without pressure gauge	1.20
536050	¾"	screwed iron	M x M - without pressure gauge	1.60
536060	1"	screwed iron	M x M - without pressure gauge	1.90
536070	1¼"	screwed iron	M x M - without pressure gauge	3.04
536080	1½"	screwed iron	M x M - without pressure gauge	3.54
536041	½"	screwed iron	M x M - with pressure gauge	1.25
536051	¾"	screwed iron	M x M - with pressure gauge	1.82
536061	1"	screwed iron	M x M - with pressure gauge	1.95
536071	1¼"	screwed iron	M x M - with pressure gauge	3.14
536081	1½"	screwed iron	M x M - with pressure gauge	3.64
536240	½"	screwed iron	F x F - without pressure gauge	1.10
536250	¾"	screwed iron	F x F - without pressure gauge	1.52
536260	1"	screwed iron	F x F - without pressure gauge	1.53
536241	½"	screwed iron	F x F - with pressure gauge	1.50
CA-536251	¾"	screwed iron	F x F - with pressure gauge	1.57
536261	1"	screwed iron	F x F - with pressure gauge	1.58
536660	DN65	flange	ISO 7005-1 PN 16 flanged	19.40

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

- Maximum pressure at inlet : 25 bar
- Maximum working temperature : 80°C
- Outlet adjustment range : 0.5 - 6 bar (**static and dynamic control**)

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# pressure reducing valves



## prescal - series 300 pressure reducing valve

Ref. no	Size	Connections	Weight kg
FL-30050	DN50	flanged	12
FL-30065	DN65	flanged	13
FL-30080	DN80	flanged	22
FL-300100	DN100	flanged	37
FL-300150	DN150	flanged	80
FL-300200	DN200	flanged	157
FL-300250	DN250	flanged	245
FL-300300	DN300	flanged	405

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

- Flanged PN16 (PN25 on request)
- Pilot operated offering total control
- Maximum operating temperature : 85°C



## pressure equalising valve

Ref. no	Description
GR5531002	½" M pressure equalising valve

Min. water pressure for satisfactory operation: Hot and cold 0.2 bar = 20 kPa

- Max water pressure 10 bar
- Max hot water temperature 80°C



## intaball lever ball valves - red handle

Ref. no	Size	Connections	Type	Weight kg	Box quantity
Al-373R15	15mm	copper x copper	compression	0.12	20
Al-373R22	22mm	copper x copper	compression	0.13	10
Al-373R28	28mm	copper x copper	compression	0.17	8
Al-373R35	35mm	copper x copper	compression	1.02	4
Al-373R42	42mm	copper x copper	compression	1.52	2
Al-373R54	54mm	copper x copper	compression	2.38	4

- Maximum working pressure 25 bar
- Temperature range -20°C - 99°C



## intaball lever ball valves - red handle

Ref. no	Size	Connections	Type	Weight kg	Box quantity
Al-171R02	¼"	screwed iron	F x F	0.12	30
Al-171R03	3/8"	screwed iron	F x F	0.13	30
Al-171R04	½"	screwed iron	F x F	0.17	25
Al-171R05	¾"	screwed iron	F x F	0.26	15
Al-171R06	1"	screwed iron	F x F	0.44	10
Al-171R07	1¼"	screwed iron	F x F	0.65	6
Al-171R08	1½"	screwed iron	F x F	0.98	3
Al-171R09	2"	screwed iron	F x F	1.58	2
Al-171R10	2½"	screwed iron	F x F	3.08	6
Al-171R11	3"	screwed iron	F x F	4.78	4
Al-171R12	4"	screwed iron	F x F	7.79	2

- Maximum working pressure 25 bar
- Temperature range -20°C - 99°C



# lever ball valves



## intaball lever ball valves - blue handle

Ref. no	Size	Connections	Type	Weight kg	Box quantity
AI-373B15	15mm	copper x copper	compression	0.12	20
AI-373B22	22mm	copper x copper	compression	0.13	10
AI-373B28	28mm	copper x copper	compression	0.17	8
AI-373B35	35mm	copper x copper	compression	1.02	4
AI-373B42	42mm	copper x copper	compression	1.52	2
AI-373B54	54mm	copper x copper	compression	2.38	4

- Maximum working pressure 25 bar
- Temperature range -20°C - 99°C



## intaball lever ball valves - blue handle

Ref. no	Size	Connections	Type	Weight kg	Box quantity
AI-171B02	¼"	screwed iron	F x F	0.12	30
AI-171B03	⅜"	screwed iron	F x F	0.13	30
AI-171B04	½"	screwed iron	F x F	0.17	25
AI-171B05	¾"	screwed iron	F x F	0.26	15
AI-171B06	1"	screwed iron	F x F	0.44	10
AI-171B07	1¼"	screwed iron	F x F	0.65	6
AI-171B08	1½"	screwed iron	F x F	0.98	3
AI-171B09	2"	screwed iron	F x F	1.58	2
AI-171B10	2½"	screwed iron	F x F	3.08	6
AI-171B11	3"	screwed iron	F x F	4.78	4
AI-171B12	4"	screwed iron	F x F	7.79	2

- Maximum working pressure 25 bar
- Temperature range -20°C - 99°C



intaball ball valves - red butterfly handle

Ref. no	Size	Connections	Type	Weight kg	Box quantity
Al-373RB5	15mm	copper x copper	compression	0.12	20
Al-373RB2	22mm	copper x copper	compression	0.13	15
Al-373RB8	28mm	copper x copper	compression	0.17	8
Al-171RB4	½"	screwed iron	F x F	0.15	30
Al-171RB5	¾"	screwed iron	F x F	0.23	20



intaball ball valves - blue butterfly handle

Ref. no	Size	Connections	Type	Weight kg	Box quantity
Al-373115	15mm	copper x copper	compression	0.12	20
Al-373222	22mm	copper x copper	compression	0.13	15
Al-373228	28mm	copper x copper	compression	0.17	8
Al-171BB4	½"	screwed iron	F x F	0.15	30
Al-171BB5	¾"	screwed iron	F x F	0.23	20



DZR service valve complete with black lever handle

Ref. no	Size	Connections	Type	Description
EU-002630108	15mm	copper x copper	compression	service valve
EU-002630111	22mm	copper x copper	compression	service valve



# flow regulation



## calflow® plus

Ref. no	Description	Connection	Colour
AI-811215	valve body only	compression	-
AI-81121504	15mm 4 litres / min	compression	grey
AI-81121506	15mm 6 litres / min	compression	black
AI-81121508	15mm 8 litres / min	compression	white
AI-81121510	15mm 10 litres / min	compression	blue
AI-81121512	15mm 12 litres / min	compression	red
AI-81121515	15mm 15 litres / min	compression	green
AI-81121518	15mm 18 litres / min	compression	grey

- 2 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



## flow regulator cartridges



Ref. no	Description	Colour
AI-Reg04	4 litres flow regulator cartridge	grey
AI-Reg06	6 litres flow regulator cartridge	black
AI-Reg08	8 litres flow regulator cartridge	white
AI-Reg10	10 litres flow regulator cartridge	blue
AI-Reg12	12 litres flow regulator cartridge	red
AI-Reg15	15 litres flow regulator cartridge	green
AI-Reg18	18 litres flow regulator cartridge	grey

### 534 flow limiter M x F

Ref. no	Connection	Flow set L/min	Colour
534102	M x F 1/2"	2	green
534104	M x F 1/2"	4	grey
534105	M x F 1/2"	5	yellow
534106	M x F 1/2"	6	black
534108	M x F 1/2"	8	white
534110	M x F 1/2"	10	light blue
534112	M x F 1/2"	12	red
534116	M x F 1/2"	16	blue
534118	M x F 1/2"	18	purple
<hr/>			
534202	F x M 1/2"	2	olive green
534204	F x M 1/2"	4	grey
534205	F x M 1/2"	5	yellow
534206	F x M 1/2"	6	black
534208	F x M 1/2"	8	white
534210	F x M 1/2"	10	light blue
534212	F x M 1/2"	12	red
534216	F x M 1/2"	16	blue
534218	F x M 1/2"	18	purple

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



### flow limiter

Ref. no	Connection/Description	Flow set L/min	Colour
SY-RO6LF	M x F 1/2" brass	6	green
SY-RO8LF	M x F 1/2" brass	8	white
SY-RO10LF	M x F 1/2" brass	10	blue
SY-RP6LF	M x F 1/2" ABS plastic	6	green
SY-RP8LF	M x F 1/2" ABS plastic	8	white
SY-RP10LF	M x F 1/2" ABS plastic	10	blue
SY-RP346LF	M 1/2 x F 3/4" ABS plastic	6	green
SY-RP348LF	M 1/2 x F 3/4" ABS plastic	8	white
SY-RP3410LF	M 1/2 x F 3/4" ABS plastic	10	blue

- Maximum working pressure 10 bar
- Maximum working temperature 80°C
- Accuracy ±10%



# gas lever ball valves & Y pattern strainers



## intaball lever operated ball valves for gas

Ref. no	Size	Connections	Type	Weight kg	Box quantity
AI-331115	15mm	copper x copper	compression	0.12	20
AI-331122	22mm	copper x copper	compression	0.13	10
AI-331128	28mm	copper x copper	compression	0.30	8
AI-033103	3/8"	screwed iron	F x F	0.16	20
AI-033104	1/2"	screwed iron	F x F	0.23	20
AI-033105	3/4"	screwed iron	F x F	0.37	10
AI-033106	1"	screwed iron	F x F	0.60	6
AI-033107	1 1/4"	screwed iron	F x F	1.03	5
AI-033108	1 1/2"	screwed iron	F x F	1.39	3
AI-033109	2"	screwed iron	F x F	2.10	2
AI-331A05	3/4"	screwed iron	M x F	0.37	10
AI-331A06	1"	screwed iron	M x F	0.59	6

The intaball gas range of full bore ball valves has been designed and built to meet the requirements of BS EN 331:1998.

- Maximum working temperature : 95°C

## intaball combi ball valves



Ref. no	Description	Box quantity
AI-397004	1/2" F x F intaball - no drain port	20
AI-397104	3/4" F x F intaball - no drain port	20
AI-397204	1" F x F intaball - no drain port	20
AI-397115	15mm Cu x Cu intaball - no drain port	20
AI-397122	22mm Cu x Cu intaball - no drain port	20
AI-401005	1/2" x 3/4" swivel union nut ball - no drain port	20
AI-395004	1/2" F x F intaball - with drain port	20
AI-395104	3/4" F x F intaball - with drain port	20
AI-395115	15mm C x C intaball - with drain port	20

- DZR ball valve with built in strainer
- Water or air
- Strainer mesh micron 400
- 16 bar



## Y pattern strainers

Ref. no	Size	Connections	Type	Weight kg
Al-595015*	15mm	copper x copper	compression	0.19
Al-595022	22mm	copper x copper	compression	0.32
Al-595028	28mm	copper x copper	compression	0.51
Al-500015	1/2"	screwed iron	F x F	0.13
Al-500022	3/4"	screwed iron	F x F	0.18
Al-500025	1"	screwed iron	F x F	0.29
Al-500031	1 1/4"	screwed iron	F x F	0.76
Al-500038	1 1/2"	screwed iron	F x F	0.92
Al-500050	2"	screwed iron	F x F	1.63
Al-500065	2 1/2"	screwed iron	F x F	2.40
Al-500075	3"	screwed iron	F x F	3.37
Al-500100	4"	screwed iron	F x F	7.25



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



- Maximum working pressure : 10 bar
- Maximum working temperature : 120°C
- Filter rating : 400 microns for the following products : 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"
- Filter rating : 100 microns\*

# accessories

## flexible tap connectors

Ref. no	Description	Length	Bore	Pressure
PA-252B42B130300	15mm x 1/2" F	300mm	9mm	10 bar
PA-251B42B130450	15mm x 1/2" F	450mm	9mm	10 bar
PA-252236B520300	22mm x 3/4" F	300mm	9mm	10 bar

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

## oil lines and flexible hoses

Ref. no	Description
PA-6097727720500	1/4" F x 1/4" F x 500mm
PA-6097727720600	1/4" F x 1/4" F x 600mm
PA-6097727720700	1/4" F x 1/4" F x 700mm
PA-6097727721000	1/4" F x 1/4" F x 1000mm
PA-6098067790600	1/4" M x 3/8" F x 600mm
PA-6098067790750	1/4" M x 3/8" F x 750mm
PA-6098297720900	1/4" F x 1/4" angled female x 900mm
PA-6098068291000	1/4" M x 1/4" angled female x 1000mm
PA-6098068290500	1/4" M x 1/4" angled female x 500mm
PA-300202	nipple 3/8" x 1/4" BSP
PA-300101	nipple 1/4" x 1/4" BSP

Flexible braided hoses for use with all grades of fuel oil.

## oil filters

Ref. no	Size	Description
GA-V7045101ALS	3/8"	aluminium bowl, steel element
GA-V7045201ALS	1/4"	aluminium bowl, steel element
GA-V70451101AL	3/8"	aluminium bowl, no bleed screw, steel element





### balancing valve with flow meter

Ref. no	Description
132402	½" 2-7 litre/min balancing valve with flow meter
132512	¾" 5-13 litre/min balancing valve with flow meter
132522	¾" 7-28 litre/min balancing valve with flow meter
132602	1" 10-40 litre/min balancing valve with flow meter
132702	1¼" 20-70 litre/min balancing valve with flow meter
132802	1½" 30-120 litre/min balancing valve with flow meter
132902	2" 50-200 litre/min balancing valve with flow meter

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



### flow switch for heating and air conditioning systems

Ref. no	Description
626600	Flow switch for heating and air con, suitable for 1" to 8" pipes

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



### manifold connectors

Ref. no	Size	Box quantity
IT-500001	3 way connector	50
IT-500002	5 way connector (71.5mm long)	50
IT-500003	5 way connector (82.0mm long)	50



# water meters



## water meters - isolation valves

Ref. no	Size	Description
AI-195004	½"	isolating ball valve ½" x ¾"



## cold water meters

Ref. no	Size	Description
GG-3003F13	½"	USF super dry, single jet, horizontal connection
GG-3005F20	¾"	USF super dry, single jet, horizontal connection
PS-100001	½"	tagus class D meter
PS-100002	¾"	tagus class D meter
PS-100004	1"	tagus class D meter
PS-100005	1½"	MVV manifold meter
GG-2003013	½"	domus DBRF wet dial single jet
GG-2005020	¾"	domus DBRF wet dial single jet
GG-2007025	1"	domus DBRF wet dial single jet
GG-2007030	1¼"	domus DBRF wet dial single jet
GG-2007040	1½"	domus DBRF wet dial single jet
GG-IARF15	½"	IARF dry dial multi jet
GG-IARF20	¾"	IARF dry dial multi jet
GG-IARF25	1"	IARF dry dial multi jet
GG-IARF30	1¼"	IARF dry dial multi jet
GG-IARF40	1½"	IARF dry dial multi jet
GG-OARF50	2"	OARF dry dial multi jet, flanged
GG-OARF50.1	2"	OARF dry dial multi jet, BSP screwed



## hot water meters

Ref. no	Size	Description
GG-3003C13	½"	USC dry dial single jet
GG-3005C20	¾"	USC dry dial single jet



## cold water meters - pulsed

Ref. no	Size	Description	Litres/pulse
GG-USLF15P1	½"	USLF super dry, single jet	1
GG-USLF20P1	¾"	USLF super dry, single jet	1



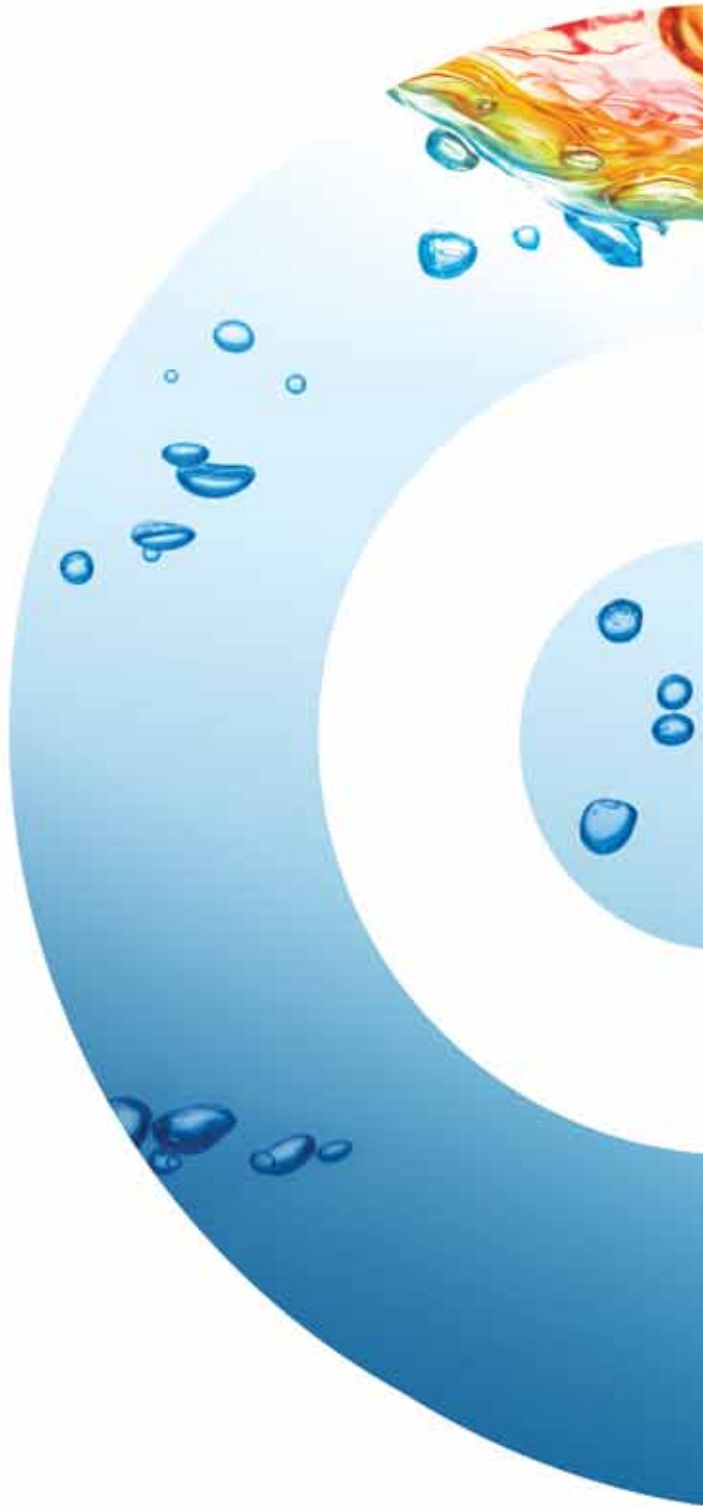
## cold water pulsed meters

Ref. no	Size	Description	Litres/pulse
PS-P00001	½"	tagus class D meter	1
PS-P00002	¾"	tagus class D meter	1
PS-P00003	1"	tagus class D meter	1
PS-P00004	½"	MVV manifold version	1



## accessories for water meter

Ref. no	Description
RTITOTALSER	water meter remote mounted



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