

FLOWING EXPERTISE

FEBRUARY 2023



PLUMBING
CATALOG



FLOWING EXPERTISE

With our heating and plumbing solutions, we have been redesigning the comfort of the spaces we live and work in for over 60 years. This is thanks to the flow of expertise, technology, experience and innovations that we have acquired over the years by constantly exchanging ideas with our customers and suppliers. A flow that pushes boundaries, allowing us to constantly set the benchmark. A flow that allows us to always look one step ahead into the future.



FLOW OF LIFE

A unique way of flowing.
It is **continuous change**, a high degree of reliability in our work, and the ongoing pursuit of total quality, which is the result of small daily actions.



FUTURE

Innovation aimed at creating **new forms of comfort** for spaces, which motivates us to continue to grow and improve.



SUSTAINABILITY

Our focus on preserving **environmental, social and economic well-being** so that it can be passed on to future generations through our products and processes.



TECHNOLOGY

Our ability to do research, invest in processes and develop **state-of-the-art solutions** in an ever-evolving world of expertise.



MADE IN CALEFFI

A uniqueness consisting of many details, which is what we are known for worldwide. True **"Made in Italy"** quality, the hallmark of our company.



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EXPLORE OUR EXCELLENCE IN EDUCATION



Caleffi is committed to providing not only high quality and innovative products but also delivering **outstanding educational resources** to aid in heating, cooling and plumbing system design, configurations and problem solving. We are flexible to assist with customized or hybrid training. For more information, visit caleffi.com or contact us at marketingadmin@caleffi.com. **CALEFFI GUARANTEED.**

AWARD-WINNING PLUMBING INNOVATION

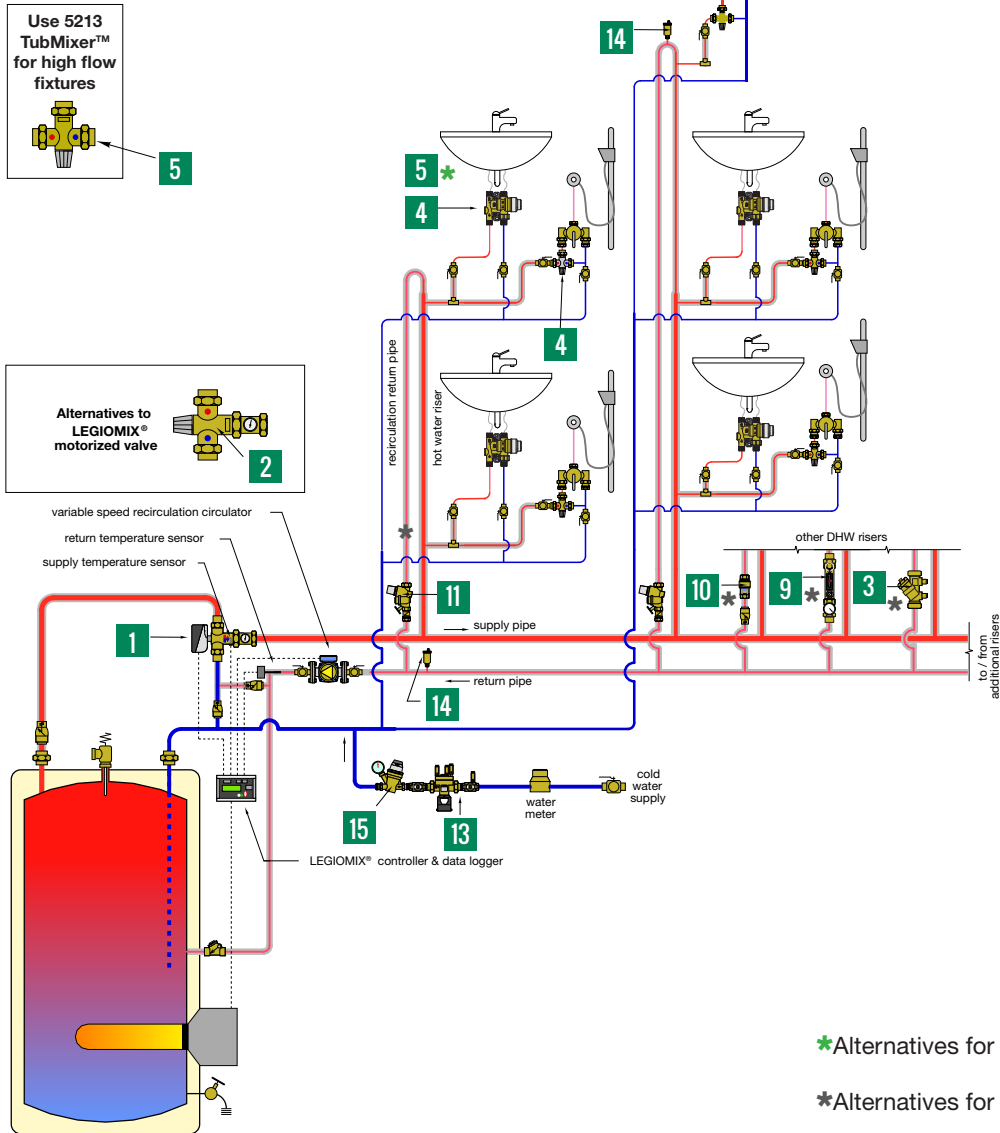


We are honored to be recognized by the AHR Innovation Award judges over the years. Caleffi's success is based on listening to the marketplace combined with a total commitment to quality. The result? Creative product design, superior performance and support that exceeds our customers' expectations. **CALEFFI GUARANTEED.**



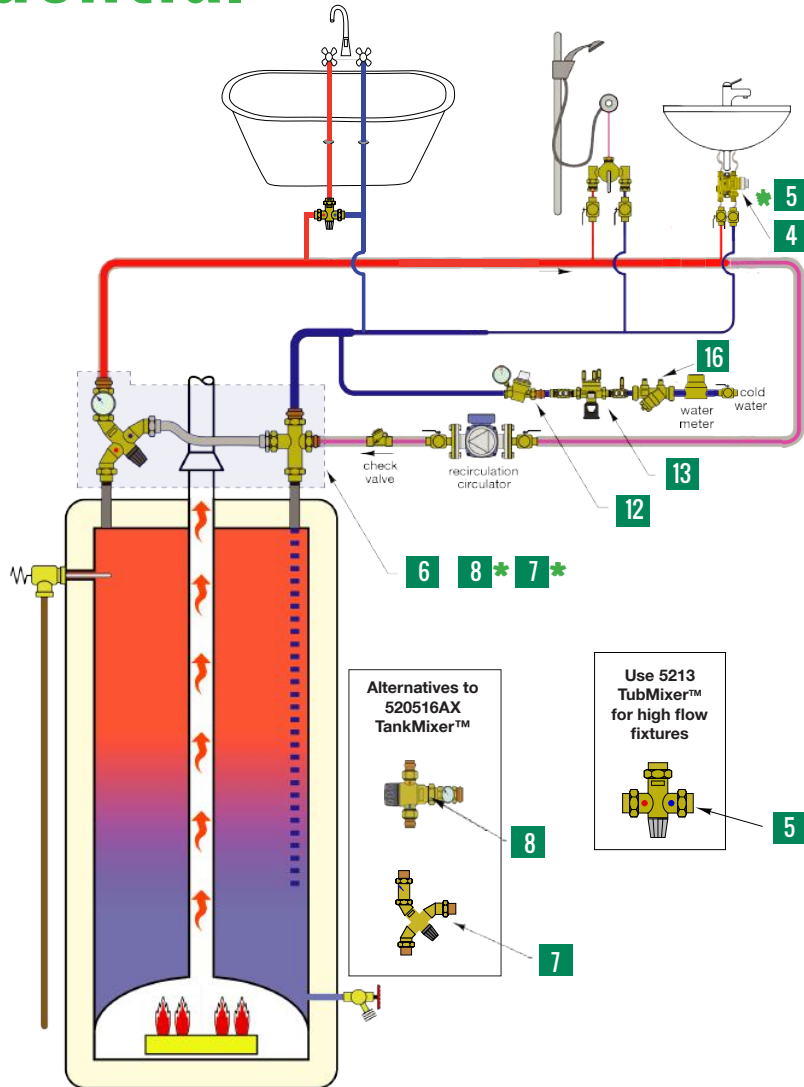
Plumbing Product Selector

Commercial



Key	Part Number	Description	Catalog Pages
1	600074A	LEGIOMIX® electronic mixing valve ASSE 1017	16
2	523177A	High-flow mixing valve ASSE 1017	12
3	128456AF	FlowCal+™ dynamic balancing valve	27
4	521201A	SinkMixer™ scald protection valve ASSE 1070	15
5	521333A	TubMixer™ scald protection mixing valve ASSE 1070	15
6	520516AX	TankMixer™ mixing valve assy ASSE 1017	19
7	520616A	AngleMix™ with valve with gauge ASSE 1017	14
8	521616A	MixCal™ mixing valve ASSE 1017	11

Residential



*Alternatives for mixing.

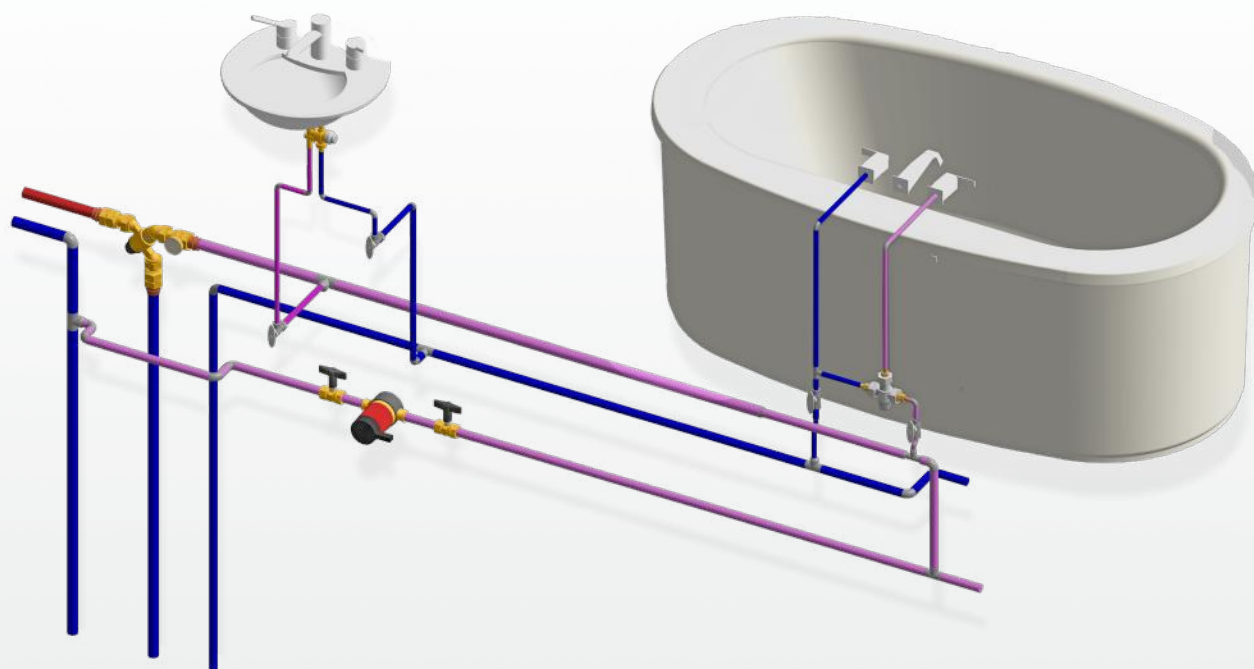
Key	Part Number	Description	Catalog Pages
9	132537AFC	QuickSetter+™ manual balancing valve	22
10	127356AF	FlowCal™ automatic balancing valve	29
11	116151AC	ThermoSetter™ thermal balancing valve	34
12	533351HA	PresCal™ pressure reducing valve ASSE 1003	40
13	574050A	RPZ backflow preventer ASSE 1013	44
14	NA502640A	PLUMBVENT™ low lead automatic air vent	55
15	535991HA	PresCal™ pressure reducing valve ASSE 1003	38
16	128741A 000	FlowCal+™ union Y-strainer	50

CUTTING-EDGE INNOVATION IN TEMPERATURE MIXING



Caleffi mixing valves lead the way. From $\frac{3}{8}$ " under-sink scald protection valves to 3" flanged digital master mixing valves, a full selection is available for residential and commercial plumbing and hydronic applications. **Over 60 years of innovation and global experience** assure high quality and proven reliability. A wide selection of double union connection types work with copper, iron, stainless steel and non-metallic pipes. **Approvals include compliance with U.S. and Canadian plumbing codes. CALEFFI GUARANTEED.**





This diagram is for illustration purposes only



 **BIM**
bim.caleffi.com

PRODUCTS INCLUDED IN SECTION

- Thermostatic mixing valves for plumbing and hydronics
- High flow thermostatic mixing valves for plumbing and hydronics
- Scald protection thermostatic mixing valves for plumbing
- Electronic mixing valves for plumbing
- Thermostatic mixing valve kits for domestic water heaters

THERMOSTATIC MIXING VALVES FOR PLUMBING AND HYDRONICS



521 MixCal™ sweat

Adjustable thermostatic mixing valve for point of distribution in domestic water systems and radiant hydronic heating systems.
Low-lead brass body.
Locking set point knob.
Max. working pressure: 200 psi.
Max. inlet temperature: 200°F.
Adjustable range: 85°—150°F.
Min. flow for optimum performance: 1.0 gpm.
(0 gpm with recirculation)
Flow at 20 psid: 14 gpm.

Code	Description	Cv	Lbs	USD
521409A	½" sweat union	3.0	2.4	200.00
521409AC	½" sweat union, check valves	3.0	2.4	221.00
521509A	¾" sweat union	3.0	2.4	209.00
521509AC	¾" sweat union, check valves	3.0	2.4	240.00
521609A	1" sweat union	3.0	2.4	249.00
521609AC	1" sweat union, check valves	3.0	2.4	278.00



521 MixCal™ NPT

Adjustable thermostatic mixing valve for point of distribution in domestic water systems and radiant hydronic heating systems.
Low-lead brass body.
Locking set point knob.
Max. working pressure: 200 psi.
Max. inlet temperature: 200°F.
Adjustable range: 85°—150°F.
Min. flow for optimum performance: 1.0 gpm.
(0 gpm with recirculation)
Flow at 20 psid: 14 gpm.

Code	Description	Cv	Lbs	USD
521400A	½" NPT male union	3.0	2.4	209.00
521400AC	½" NPT male union, check valves	3.0	2.4	230.00
521500A	¾" NPT male union	3.0	2.4	218.00
521500AC	¾" NPT male union, check valves	3.0	2.4	249.00
521600A	1" NPT male union	3.0	2.4	259.00
521600AC	1" NPT male union, check valves	3.0	2.4	288.00

Meets requirements of NSF/ANSI/CAN 372. Complies with ASSE 1017, CSA B125.3, UPC, IPC, Low Lead Laws and listed by ICC-ES for use in accordance with the U.S. and Canadian plumbing codes.



521 MixCal™ press

Adjustable thermostatic mixing valve for point of distribution in domestic water systems and radiant hydronic heating systems.
Low-lead brass body.
Locking set point knob.
Max. working pressure: 200 psi.
Max. inlet temperature: 200°F.
Adjustable range: 85°—150°F.
Min. flow for optimum performance: 1.0 gpm.
(0 gpm with recirculation)
Flow at 20 psid: 14 gpm.

Code	Description	Cv	Lbs	USD
521406A	½" press union	3.0	2.4	213.00
521406AC	½" press union, check valves	3.0	2.5	234.00
521506A	¾" press union	3.0	2.4	218.00
521506AC	¾" press union, check valves	3.0	2.5	271.00
521606A	1" press union	3.0	2.6	264.00
521606AC	1" press union, check valves	3.0	3.1	287.00



521 MixCal™ PEX

Adjustable thermostatic mixing valve for point of distribution in domestic water systems and radiant hydronic heating systems.
Low-lead brass body.
Locking set point knob.
Max. working pressure: 200 psi.
Max. inlet temperature: 200°F.
Adjustable range: 85°—150°F.
Min. flow for optimum performance: 1.0 gpm.
(0 gpm with recirculation)
Flow at 20 psid: 14 gpm.
PEX crimp: ASTM F1807
PEX expansion: ASTM F1960

Code	Description	Cv	Lbs	USD
521407A	½" PEX crimp union	3.0	2.4	200.00
521407AC	½" PEX crimp union, check valves	3.0	2.9	221.00
521408A	½" PEX expansion union	3.0	2.4	209.00
521408AC	½" PEX expansion union, check valves	3.0	2.9	240.00
521507A	¾" PEX crimp union	3.0	2.4	249.00
521507AC	¾" PEX crimp union, check valves	3.0	2.9	278.00
521508A	¾" PEX expansion union	3.0	2.4	200.00
521508AC	¾" PEX expansion union, check valves	3.0	2.9	221.00
521607A	1" PEX crimp union	3.0	2.4	209.00
521607AC	1" PEX crimp union, check valves	3.0	2.9	240.00
521608A	1" PEX expansion union	3.0	2.4	249.00
521608AC	1" PEX expansion union, check valves	3.0	2.9	278.00

THERMOSTATIC MIXING VALVES FOR PLUMBING AND HYDRONICS



521 MixCal™ sweat

Adjustable thermostatic mixing valve for point of distribution in domestic water systems and radiant hydronic heating systems. Low-lead brass body, with gauge. Locking set point knob.
Max. working pressure: 200 psi.
Max. inlet temperature: 200°F.
Adjustable range: 85° — 150°F.
Min. flow for optimum performance: 1.0 gpm. (0 gpm with recirculation)
Flow at 20 psid: 14 gpm.
Optional Gauge scale: 30° — 210°F.

Code	Description	Cv	Lbs	USD
521419A	1/2" sweat union	3.0	2.9	238.00
521419AC	1/2" sweat union, check valves	3.0	2.9	258.00
521519A	3/4" sweat union	3.0	2.9	246.00
521519AC	3/4" sweat union, check valves	3.0	2.9	276.00
521619A	1" sweat union	3.0	2.9	287.00
521619AC	1" sweat union, check valves	3.0	2.9	317.00



521 MixCal™ NPT

Adjustable thermostatic mixing valve for point of distribution in domestic water systems and radiant hydronic heating systems. Low-lead brass body with gauge. Locking set point knob.
Max. working pressure: 200 psi.
Max. inlet temperature: 200°F.
Adjustable range: 85° — 150°F.
Min. flow for optimum performance: 1.0 gpm. (0 gpm with recirculation)
Flow at 20 psid: 14 gpm.
Optional Gauge scale: 30° — 210°F.

Code	Description	Cv	Lbs	USD
521410A	1/2" NPT male union	3.0	2.9	246.00
521410AC	1/2" NPT male union, check valves	3.0	2.9	266.00
521510A	3/4" NPT male union	3.0	2.9	256.00
521510AC	3/4" NPT male union, check valves	3.0	2.9	284.00
521610A	1" NPT male union	3.0	2.9	298.00
521610AC	1" NPT male union, check valves	3.0	2.9	325.00



521 MixCal™ press

Adjustable thermostatic mixing valve for point of distribution in domestic water systems and radiant hydronic heating systems. Low-lead brass body with gauge. Locking set point knob.
Max. working pressure: 200 psi.
Max. inlet temperature: 200°F.
Adjustable range: 85° — 150°F.
Min. flow for optimum performance: 1.0 gpm. (0 gpm with recirculation)
Flow at 20 psid: 14 gpm.
Optional Gauge scale: 30° — 210°F.

Code	Description	Cv	Lbs	USD
521416A	1/2" press union	3.0	2.9	250.00
521416AC	1/2" press union, check valves	3.0	3.0	269.00
521516A	3/4" press union	3.0	2.9	256.00
521516AC	3/4" press union, check valves	3.0	3.0	307.00
521616A	1" press union	3.0	3.1	302.00
521616AC	1" press union, check valves	3.0	3.5	324.00



521 MixCal™ PEX

Adjustable thermostatic mixing valve for point of distribution in domestic water systems and radiant hydronic heating systems. Low-lead brass body with gauge. Locking set point knob.
Max. working pressure: 200 psi.
Max. inlet temperature: 200°F.
Adjustable range: 85° — 150°F.
Min. flow for optimum performance: 1.0 gpm. (0 gpm with recirculation)
Flow at 20 psid: 14 gpm.
Optional Gauge scale: 30° — 210°F.
PEX crimp: ASTM F1807.
PEX expansion: ASTM F1960.

Code	Description	Cv	Lbs	USD
521417A	1/2" PEX crimp union	3.0	2.5	238.00
521417AC	1/2" PEX crimp union, checks	3.0	2.9	258.00
521418A	1/2" PEX expansion union	3.0	2.5	238.00
521418AC	1/2" PEX expansion union, checks	3.0	2.9	258.00
521517A	3/4" PEX crimp union	3.0	2.5	246.00
521517AC	3/4" PEX crimp union, checks	3.0	2.9	276.00
521518A	3/4" PEX expansion union	3.0	2.5	246.00
521518AC	3/4" PEX expansion union, checks	3.0	2.9	276.00
521617A	1" PEX crimp union	3.0	2.5	287.00
521617AC	1" PEX crimp union, checks	3.0	2.9	317.00
521618A	1" PEX expansion union	3.0	2.5	287.00
521618AC	1" PEX expansion union, checks	3.0	2.9	317.00

Meets requirements of NSF/ANSI/CAN 372. Complies with ASSE 1017, CSA B125.3, UPC, IPC, Low Lead Laws and listed by ICC-ES for use in accordance with the U.S. and Canadian plumbing codes.

THERMOSTATIC MIXING VALVES FOR PLUMBING AND HYDRONICS



Point of distribution mixed temperature gauge adaptor fits 1" male union thread mixing valves.
Removable gauge fits into pocket well.
Dual scale: 30°—210°F (0°—100°C).
Gauge accuracy: ± 6°F.
Gauge dial: 2" diameter.
Certified: Low-lead brass.

Code	Description	Lbs	USD
NA10328	½" sweat with gauge	0.4	59.30
NA10056	¾" sweat with gauge	0.4	65.20
NA10058	1" sweat with gauge	0.4	71.60
NA10358	1" union thread with gauge	0.4	37.30
688003A	Replacement gauge with pocket well	0.5	40.50
R39591	Replacement gauge	0.1	26.50
NA10498	Pocket well, plated	0.1	4.00

ACCESSORIES



Replacement check valves for 521 (AC models).

Code	Description	Lbs	USD
NA10405	Replacement for 521 PEX, press fittings	0.1	2.50
R39204	Replacement for 521 sweat, NPT fittings	0.1	3.50



Conical inlet filter for 521 mixing valves.

Code	Description	Lbs	USD
F52429	Conical filter for 521 mixing valve	0.1	5.00

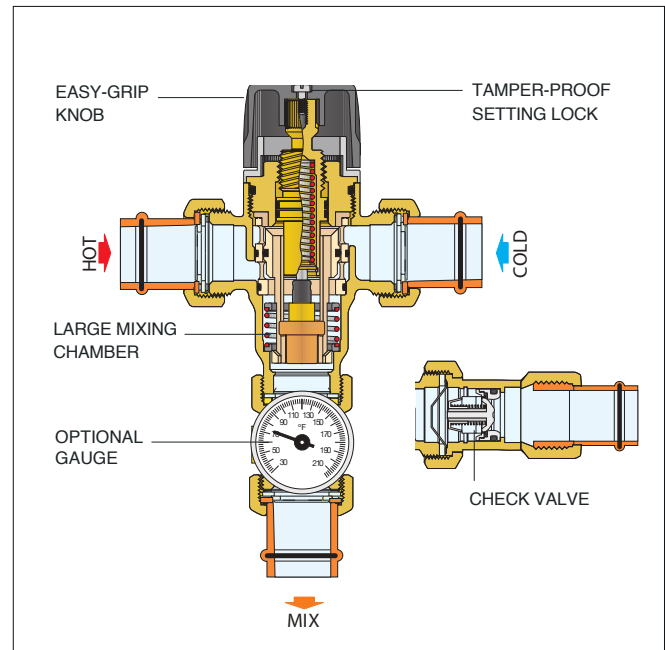


521 MixCal™ Body

Replacement body (½", ¾", 1" valve).
See fitting selection table in Section P5.

Code	Description	Cv	Lbs	USD
521101A	1" union body	3.0	1.9	153.00

Construction details



HIGH FLOW THERMOSTATIC MIXING VALVES FOR PLUMBING AND HYDRONICS



5231 MixCal+™ Body

Replacement body includes nuts and washers.
See fitting selection table in Section P5.

Code	Description	Min - Max Flow (gpm)	Cv	Lbs	USD
523179A	For 1" and 1¼" sizes	4.4 to 40	7.6	5.0	1,129.00
523199A	For 1½" and 2" sizes	8.8 to 70	14.2	14.2	1,616.00



5231 MixCal+™ Sweat

Adjustable thermostatic mixing valve for domestic water systems and radiant hydronic systems.
DZR low lead brass body.
Max. working pressure: 200 psi.
Max. inlet temperature: 195°F.
Adjustable range: 95°—150°F.
Gauge scale: 30°—210°F.
Gauge accuracy: ± 6°F.
Gauge dial: 2" diameter.
Min. flow for optimum performance: 4.4 gpm.
(0 gpm with recirculation)
Flow at 20 psid: 40 GPM.

Code	Description	Cv	Lbs	USD
523177A	1¼" sweat union	7.6	9.0	1,412.00

Meets requirements of NSF/ANSI/CAN 372. Complies with ASSE 1017, CSA B125.3, UPC, IPC, Low Lead Laws and listed by ICC-ES for use in accordance with the U.S. and Canadian plumbing codes.

HIGH FLOW THERMOSTATIC MIXING VALVES FOR PLUMBING AND HYDRONICS

P1



5231 MixCal+™ sweat

Adjustable thermostatic mixing valve for domestic water systems and radiant hydronic systems.
DZR low lead brass body.
Max. working pressure: 200 psi.
Max. inlet temperature: 195°F.
Adjustable range: 95°—150°F.

Code	Description	Min - Max Flow (gpm)	Cv	Lbs	USD
523168A	1" sweat union	4.4 to 40	7.0	7.0	1,257.00
523178A	1¼" sweat union	4.4 to 40	7.6	7.0	1,313.00
523188A	1½" sweat union	8.8 to 70	13	17	1,973.00
523198A	2" sweat union	8.8 to 70	14	18	2,074.00



Point of distribution mixed temperature gauge adaptor fits MixCal+™ High Flow 5231 Series mixing valves.
Removable gauge fits into pocket well.
Dual scale: 30°—210°F (0°—100°C).
Gauge accuracy: ± 6°F.
Gauge dial: 2" diameter.
Certified: Low-lead brass.

Code	Description	Lbs	USD
NA10315	1¼" sweat	0.5	144.00
NA10476	1" and 1¼" male x female union	3.0	165.00
NA10461	1½" and 2" male x female union	4.0	283.00
688003A	Replacement gauge with pocket well	0.2	40.50
R39591	Replacement gauge	0.1	26.50



5231 MixCal+™ NPT

Adjustable thermostatic mixing valve for domestic water systems and radiant hydronic systems.
DZR low lead brass body.
Max. working pressure: 200 psi.
Max. inlet temperature: 195°F.
Adjustable range: 95°—150°F.

Code	Description	Min - Max Flow (gpm)	Cv	Lbs	USD
523160A	1" NPT male union	4.4 to 40	7.0	7.0	1,270.00
523170A	1¼" NPT male union	4.4 to 40	7.6	7.0	1,372.00
523180A	1½" NPT male union	8.8 to 70	13	17	2,023.00
523190A	2" NPT male union	8.8 to 70	14	18	2,127.00



Inlet check valve assembly for installing on inlet union tail pieces of 5231 mixing valves.
Stainless steel body. No Lead. Ordered separately, field installed. Assembly examples shown below.



523177A shown with (2) NA10366 523178A shown with (2) NA10366

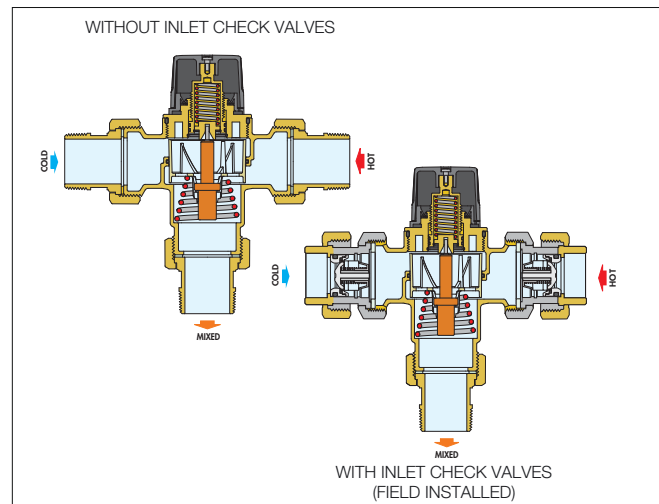
Code	Description	Lbs	USD
NA10366	Check valve assembly 1" and 1¼"	1.0	103.00
NA10367	Check valve assembly 1½" & 2"	1.5	228.00



5231 MixCal+™ press

Adjustable thermostatic mixing valve for domestic water systems and radiant hydronic systems.
DZR low lead brass body.
Max. working pressure: 200 psi.
Max. inlet temperature: 195°F.
Adjustable range: 95°—150°F.

Code	Description	Min - Max Flow (gpm)	Cv	Lbs	USD
523166A	1" press union	4.4 to 40	7.0	7.0	1,337.00
523176A	1¼" press union	4.4 to 40	7.6	7.0	1,399.00
523186A	1½" press union	8.8 to 70	13	17	2,150.00
523196A	2" press union	8.8 to 70	14	18	2,391.00



Meets requirements of NSF/ANSI/CAN 372. Complies with ASSE 1017, CSA B125.3, UPC, IPC, Low Lead Laws and listed by ICC-ES for use in accordance with the U.S. and Canadian plumbing codes.

THERMOSTATIC MIXING VALVES FOR PLUMBING AND HYDRONICS



520 AngleMix™ sweat

Body is DZR low lead brass with gauge.
Adjustment temperature range: 95° — 150°F.
Max. body pressure rating (static): 150 psi.
Max. working pressure (dynamic): 75 psi.
Max. inlet temperature: 195°F.
Gauge scale: 30° — 210°F.
Min. flow for optimum performance: ½" and ¾" valves 0.5 GPM, 1" valves 1 GPM.
(0 gpm with recirculation)
Flow at 20 psid: ½" and ¾" valves 9 GPM, 1" valves 16 GPM.

Code	Description	Cv	Lbs	USD
520419A	½" sweat union	2.0	1.7	238.00
520419AC	½" sweat union, checks	2.0	1.8	258.00
520519A	¾" sweat union	2.0	2.0	256.00
520519AC	¾" sweat union, checks	2.0	2.1	284.00
520619A	1" sweat union	3.5	3.7	344.00
520619AC	1" sweat union, check	3.5	3.8	372.00



520 AngleMix™ NPT

Body is DZR low lead brass with gauge.
Adjustment temperature range: 95° — 150°F.
Max. body pressure rating (static): 150 psi.
Max. working pressure (dynamic): 75 psi.
Max. inlet temperature: 195°F.
Gauge scale: 30° — 210°F.
Min. flow for optimum performance: ½" and ¾" valves 0.5 GPM, 1" valves 1 GPM.
(0 gpm with recirculation)
Flow at 20 psid: ½" and ¾" valves 9 GPM, 1" valves 16 GPM.

Code	Description	Cv	Lbs	USD
520410A	½" NPT male union	2.0	1.7	246.00
520410AC	½" NPT male union, checks	2.0	1.8	266.00
520510A	¾" NPT male union	2.0	2.0	256.00
520510AC	¾" NPT male union, checks	2.0	2.1	284.00
520610A	1" NPT male union	3.5	3.9	353.00
520610AC	1" NPT male union, check	3.5	4.0	382.00



520 AngleMix™ Body

Replacement body.
See fitting selection table in Section 8.

Code	Description	Cv	Lbs	USD
520051A	1" union body (½", ¾" valves)	2.0	2.0	153.00
520061A	1¼" union body (1" valves)	3.5	4.0	214.00



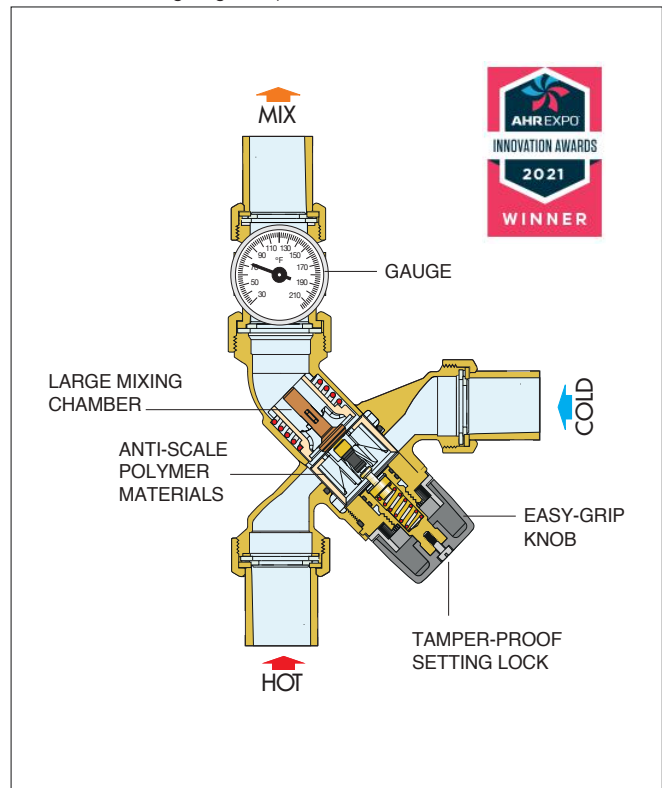
520 AngleMix™ press

Body is DZR low lead brass with gauge.
Adjustment temperature range: 95° — 150°F.
Max. body pressure rating (static): 150 psi.
Max. working pressure (dynamic): 75 psi.
Max. inlet temperature: 195°F.
Gauge scale: 30° — 210°F.
Min. flow for optimum performance: ½" and ¾" valves 0.5 GPM, 1" valves 1 GPM.
(0 gpm with recirculation)
Flow at 20 psid: ½" and ¾" valves 9 GPM, 1" valves 16 GPM.

Code	Description	Cv	Lbs	USD
520416A	½" press union	2.0	1.8	250.00
520416AC	½" press union, check	2.0	1.8	268.00
520516A	¾" press union	2.0	2.0	246.00
520516AC	¾" press union, check	2.0	2.1	307.00
520616A	1" press union	3.5	3.7	358.00
520616AC	1" press union, check	3.5	3.9	388.00

Construction details

Anti-scale materials The material used in the construction of the Caleffi AngleMix 520 Series thermostatic mixing valve reduces jamming caused by lime deposits. All the working parts such as shutter, seats and slide guides are made of a special anti-scale polymer material, with a low friction coefficient, assuring long term performance.



Meets requirements of NSF/ANSI/CAN 372. Complies with ASSE 1017, CSA B125.3, UPC, IPC, Low Lead Laws and listed by ICC-ES for use in accordance with the U.S. and Canadian plumbing codes.

SCALD PROTECTION THERMOSTATIC MIXING VALVES FOR PLUMBING



5212 SinkMixer™ 4-way Scald Protection Point of use

Thermostatic mixing valve for under sink and under counter applications where the user must be protected from the danger of scalding caused by excessively hot water. Temperature adjustment range: 95° – 120°F. Cold inlet temperature: Min. 39°F; Max. 85°F. Hot inlet temperature: Min. 120°F; Max. 195°F. Min flow for optimum performance 0.35 gpm. Flow at 20 psid: 2.3 gpm. Complies with NSF/ANSI/CAN 61. Cv = 0.52

Code	Description	Lbs	USD
521201A	3/8" compression	1.0	113.00
521201AP	3/8" compression, plug/fitings	1.1	115.00



5213 TubMixer™ High-Flow Scald Protection

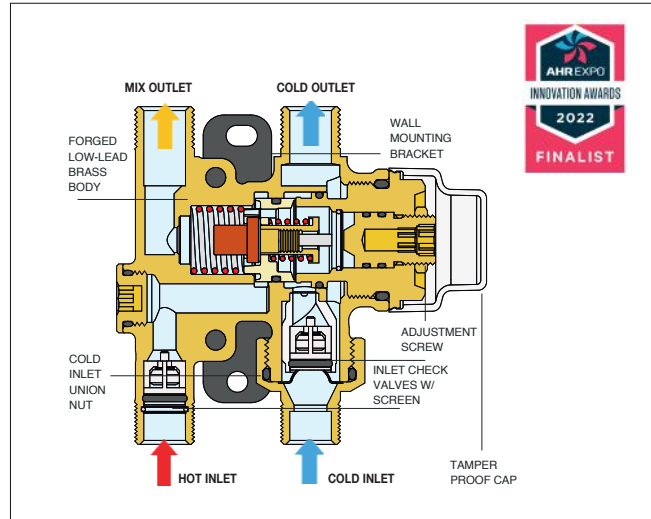
Adjustable thermostatic high-flow point of use mixing valve for Roman Tubs and other high-flow fixtures. Locking set point knob. Complete with check valves on both hot and cold inlets. Low-lead brass body. Max. working pressure: 150 psi. Max. inlet temperature: 185°F. Adjustable range: 85° – 120°F. Temperature control: ±3°F. Min. flow for optimum performance: 0.5 gpm. Flow at 20 psid: 9 gpm. Cv = 2

Code	Description	Lbs	USD
521333A	3/8" compression union	2.0	136.00
521347A	1/2" PEX crimp union	2.0	136.00
521348A	1/2" PEX expansion union	2.0	136.00
521342A	1/2" NPT male union	2.0	136.00
521349A	1/2" sweat union	2.0	136.00
521357A	3/4" PEX crimp union	2.0	143.00
521358A	3/4" PEX expansion union	2.0	143.00
521352A	3/4" NPT male union	2.0	143.00
521359A	3/4" sweat union	2.0	143.00
521367A	1" PEX crimp union	2.0	221.00
521368A	1" PEX expansion union	2.0	221.00
521362A	1" NPT male union	2.0	230.00
521369A	1" sweat union	2.0	221.00
521301A*	Replacement body, no fittings	1.5	123.00

*See fitting selection table in Section 8.

Meets requirements of NSF/ANSI/CAN 372. Complies with ASSE 1070, CSA B125.3, UPC, IPC, Low Lead Laws and listed by ICC-ES for use in accordance with the U.S. and Canadian plumbing codes.

Construction details SinkMixer™



SinkMixer™
Replacement check valve/filter kit.
Includes two checks and two filters.

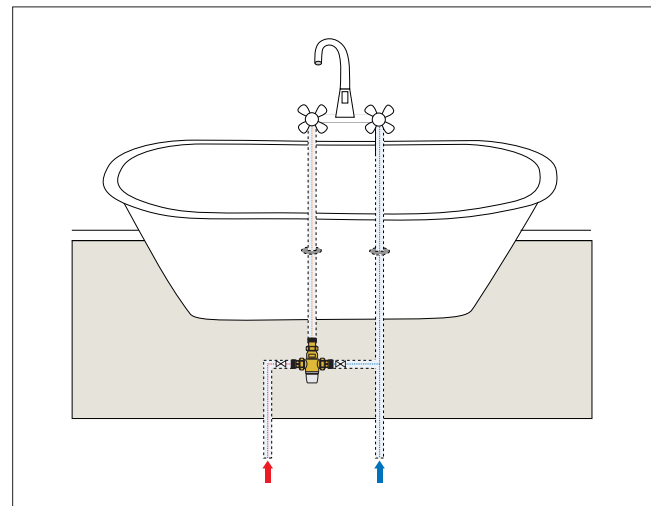
Code	Description	Lbs	USD
F0001270	Replacement check valve/filter kit	0.1	6.80



SinkMixer™ 5-pack plug/nut fitting kit.
The cold outlet port plug is for single-pipe, mixed-water fixtures.

Code	Description	Lbs	USD
NA10741	5-pack plug/nut fitting kit	0.2	17.10

Application diagram TubMixer™



ELECTRONIC MIXING VALVES FOR PLUMBING



6000 LEGIOMIX® sweat

Electronic mixing valve with optional selectable programs for thermal disinfection of hot water recirculation system to kill Legionella bacteria.

Power: 24 VAC +/- 10% - 50/60 Hz - 6 VA.
115/24 VAC transformer included.
Adjustment temperature range: 70°—185°F.
Disinfection temperature range: 100°—185°F.
Max body pressure rating (static): 230 psi.
Max operating pressure: 150 psi.
Max. inlet temperature: 212°F.



6000 LEGIOMIX® press

Electronic mixing valve with optional selectable programs for thermal disinfection of hot water recirculation system to kill Legionella bacteria.

Power: 24 VAC +/- 10% - 50/60 Hz - 6 VA.
115/24 VAC transformer included.
Adjustment temperature range: 70°—185°F.
Disinfection temperature range: 100°—185°F.
Max body pressure rating (static): 230 psi.
Max operating pressure: 150 psi.
Max. inlet temperature: 212°F.

Code	Description	Cv	Lbs	USD
600059A	¾" sweat union	9.7	5.1	2,820.00
600069A 001	1" sweat union, ¾" body	9.7	5.3	2,972.00
600069A	1" sweat union	21	7.3	3,121.00
600079A	1¼" sweat union	24	8.2	3,174.00
600089A	1½" sweat union	34	21	3,603.00
600099A	2" sweat union	48	22	3,696.00

Code	Description	Cv	Lbs	USD
600056A	¾" press union	9.7	5.1	2,972.00
600066A 001	1" press union, ¾" body	9.7	5.2	3,084.00
600066A	1" press union	21	7.3	3,197.00
600076A	1¼" press union	24	8.2	3,252.00
600086A	1½" press union	34	21	3,767.00
600096A	2" press union	48	22	3,989.00



6000 LEGIOMIX® NPT

Electronic mixing valve with optional selectable programs for thermal disinfection of hot water recirculation system to kill Legionella bacteria.

Power: 24 VAC +/- 10% - 50/60 Hz - 6 VA.
115/24 VAC transformer included.
Adjustment temperature range: 70°—185°F.
Disinfection temperature range: 100°—185°F.
Max body pressure rating (static): 230 psi.
Max operating pressure: 150 psi.
Max. inlet temperature: 212°F.



6000 LEGIOMIX® flange

Electronic mixing valve with optional selectable programs for thermal disinfection of hot water recirculation system to kill Legionella bacteria.

Power: 24 VAC +/- 10% - 50/60 Hz - 6 VA.
115/24 VAC transformer included.
Adjustment temperature range: 70°—185°F.
Disinfection temperature range: 100°—185°F.
Max body pressure rating (static): 230 psi.
Max operating pressure: 150 psi.
Max. inlet temperature: 212°F.

Code	Description	Cv	Lbs	USD
600054A	¾" NPT male union	9.7	5.1	2,850.00
600064A 001	1" NPT male union, ¾" body	9.7	5.3	2,992.00
600064A	1" NPT male union	21	7.3	3,132.00
600074A	1-¼" NPT male union	24	8.2	3,230.00
600084A	1½" NPT male union	34	21	3,647.00
600094A	2" NPT male union	48	22	3,746.00

Code	Description	Cv	Lbs	USD
600060A	2½" ANSI 150 flanges	105	30	13,462.00
600080A	3" ANSI 150 flanges	120	42	14,250.00

The LEGIOMIX® includes:

- Three-way ball valve.
- 3-wire floating control actuator.
- Controller/user interface with DIN rail mounting bracket.
- Mixed outlet temperature sensor/probe.
- Return temperature sensor/probe.
- Mixed outlet temperature gauge.



Meets requirements of NSF/ANSI/CAN 372 and complies with ASSE 1017, CSA B125.3, UPC, IPC, Low Lead Laws and listed by ICC-ES for use in accordance with the U.S. and Canadian plumbing codes. Meets requirements of CSA Z317.1 Special Requirements For Plumbing Installations In Health Care Facilities.

Size	Recommended Flow Rates (gpm/lpm)						
	¾"	1"	1¼"	1½"	2"	2½"	3"
Minimum flow*	2.2 / 8.3	3.1 / 12	4.4 / 17	6.6 / 25	8.8 / 33	17 / 64	22 / 83
Design flow**	27 / 102	58 / 220	66 / 250	93 / 352	131 / 495	288 / 1,090	329 / 1,245
Flow at 20 psid	43 / 172	94 / 356	107 / 405	152 / 575	215 / 814	470 / 1,780	537 / 2,033
Cv	9.7	21	24	34	48	105	120

*To ensure stable operation and ± 3° F accuracy. Minimum flow rate is 0 gpm when recirculation flow rate is greater than or equal to the valve size minimum flow rating.

**Suggested maximum flow rate for optimum modulating control (at 7.5 psid pressure drop).

ACCESSORIES AND REPLACEMENT



Replacement mixed temp sensor.

Code	Description	Lbs	USD
F69807	Fits 1" and 1¼" valve	1.0	66.30



Replacement mixed temp sensor.

Code	Description	Lbs	USD
F69804	Fits 1½" and 2" valve	1.0	94.30



Replacement recirculation sensor.

Code	Description	Lbs	USD
F69591	Replacement recirculation sensor	1.0	84.20



Replacement controller.

Code	Description	Lbs	USD
F000962	Replacement controller	1.5	1,890.00



Replacement actuator.

Code	Description	Lbs	USD
645114	Replacement actuator	1.0	473.00



Replacement transformer.

Code	Description	Lbs	USD
NA10759	Plug-in transformer 20 VA	1.0	40.60



LEGIOMIX® parts bag assembly.

Code	Description	Lbs	USD
R0001397	Bag assembly	0.2	86.50



Replacement temp gauge.

Code	Description	Lbs	USD
R19101	Replacement temp gauge	0.3	23.00



Modbus-to-BACnet gateway
Converts LEGIOMIX® controller Modbus (RS-485 serial) output communication to BACnet IP or MSTP communication.

Code	Description	Lbs	USD
755052	Modbus-to-BACnet gateway	1.2	2,007.00



Inlet check valve assembly for installing on 6000 Series valve body (if required). Stainless steel body. No Lead. Ordered separately, field installed. 2 required per valve.

Code	Description	Lbs	USD
NA10366	Check valve assembly 1" and 1¼"	1.0	103.00
NA10367	Check valve assembly 1½" & 2"	1.5	228.00



Replacement body includes gauge adapter assembly.
See fitting selection table in Section P5.

Code	Description	Lbs	USD
NA10758	Body, gauge adapter (¾" valve)	3.5	484.00
NA10615	Body, gauge adapter (1", 1¼" valves)	5.1	546.00
NA10616	Body, gauge adapter (1½", 2" valves)	11	800.00



Replacement controller battery.

Code	Description	Lbs	USD
F69888	Replacement controller battery	0.1	47.50

ELECTRONIC MIXING VALVES FOR PLUMBING



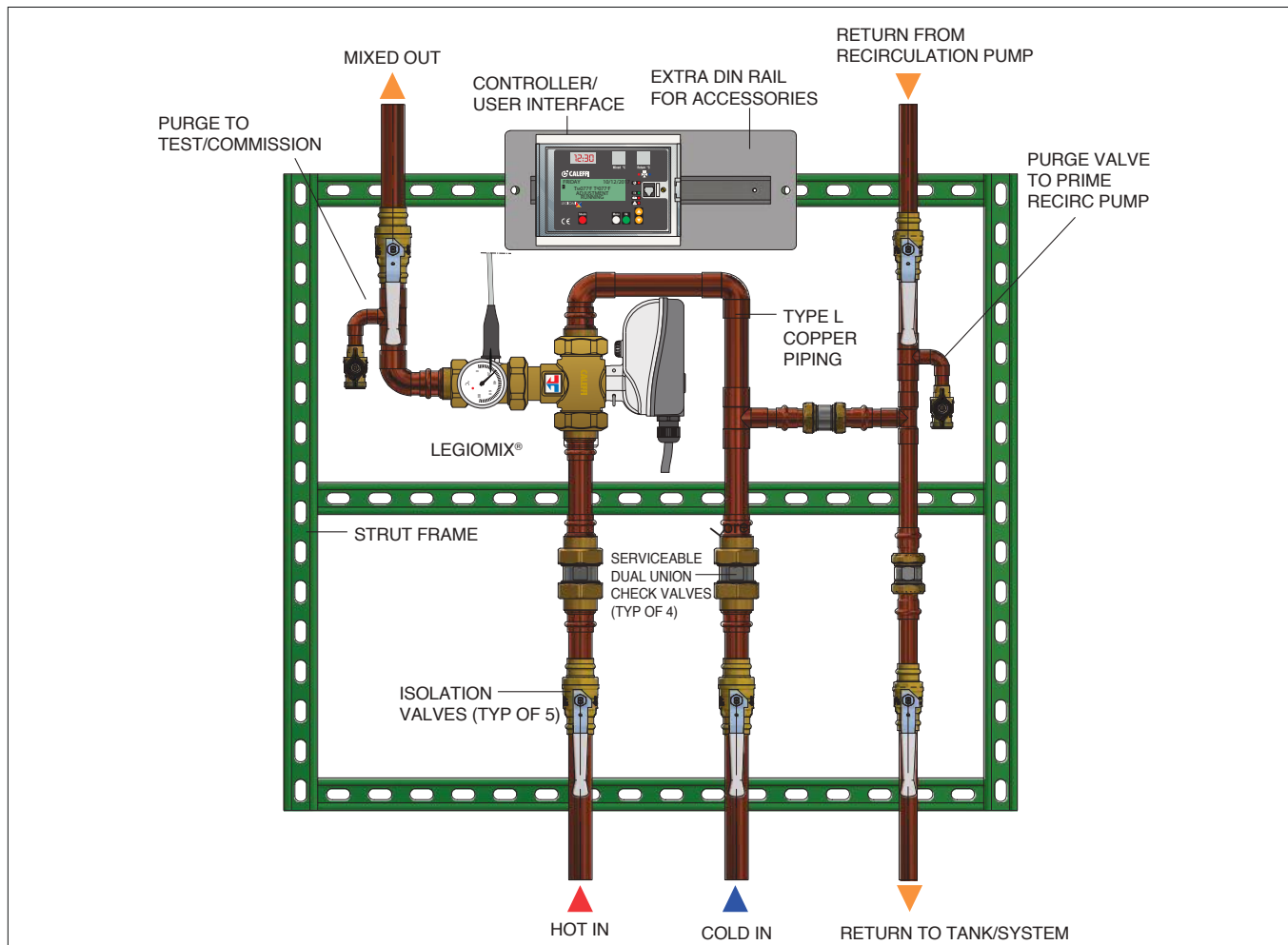
6000 LEGIOMIX® Station

Electronic mixing valve pre-packaged in a convenient wall mount configuration. 100% factory tested for plug-and-play in a packaged wall mount configuration.

Station assembly includes pre-piped 3-way mixing valve with union connections, serviceable check valves, a recirculation connection and isolation valves for fast and simple installation, all mounted on welded, powder-coat painted steel strut. The LEGIOMIX® controller/user interface with DIN rail mounting bracket is pre-mounted and pre-wired and includes a return water temperature sensor. Simply wall mount the assembly, hook up the hot and cold water supplies, the mixed outlet and the recirculation circuit. Plug in 120/24 VAC transformer with 20 ft cable included.

Code	Description	Cv	Lbs	USD
600066AS	1" copper wall-mount station	8.0	130	9,922.00
600076AS	1¼" copper wall-mount station	9.0	148	11,274.00
600086AS	1½" copper wall-mount station	20	219	14,269.00
600096AS	2" copper wall-mount station	38	248	16,196.00
600060AS	2½" copper wall-mount station	43	250	18,522.00

Construction details



THERMOSTATIC MIXING VALVE KITS FOR DOMESTIC WATER HEATERS

P1



520 TankMixer™

Adjustment temperature range: 95°—150°F.
Max. working pressure (static): 150 psi.
Max. working pressure (dynamic): 75 psi.
Max. inlet temperature: 195°F.
Minimum flow for optimum performance:
0.5 GPM (0 GPM with recirculation).
Max flow for optimum performance: 9 gpm.
Tank: ¾" NPT female union connections.
System: ¾" NPT M, press or sweat union connections.

Code	Description	Cv	Lbs	USD
520500AX	¾" NPT male union system connections	2.0	2.4	287.00
520506AX	¾" press union system connections	2.0	2.4	328.00
520509AX	¾" sweat union system connections	2.0	2.4	277.00

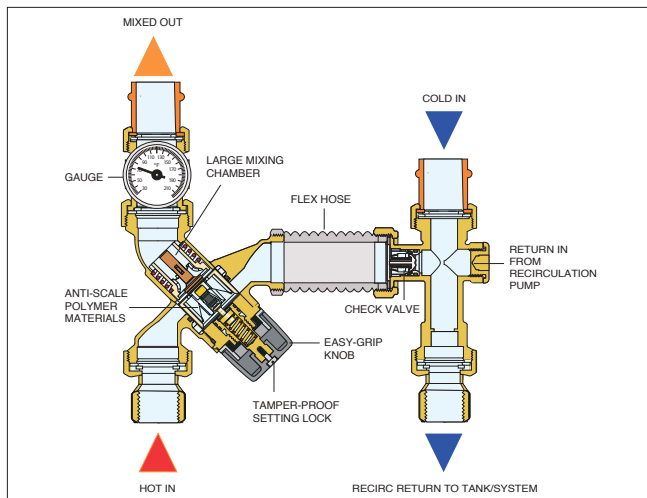


520 TankMixer™ with gauge

Adjustment temperature range: 95°—150°F.
Max. working pressure (static): 150 psi.
Max. working pressure (dynamic): 75 psi.
Max. inlet temperature: 195°F.
Gauge scale: 30°—210°F.
Gauge accuracy: ± 6°F.
Gauge dial: 2" diameter.
Minimum flow for optimum performance:
0.5 GPM (0 GPM with recirculation).
Max flow for optimum performance: 9 gpm.
Tank: ¾" NPT female union connections.
System: ¾" NPT M, press or sweat union connections.

Code	Description	Cv	Lbs	USD
520510AX	¾" NPT male union system connections	2.0	2.9	328.00
520516AX	¾" press union system connections	2.0	2.9	369.00
520519AX	¾" sweat union system connections	2.0	2.9	318.00

Construction details TankMixer™



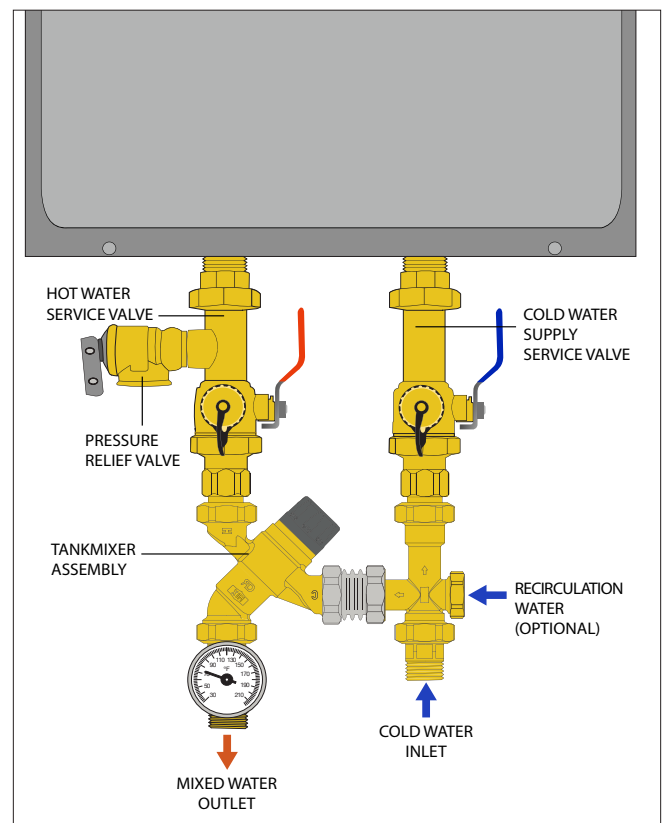
520 TankMixer™ with Tankless Heater Service Valve Kit

For use on tankless water heaters and combi boilers, the kit includes the 520 TankMixer for tempered water control and the 290 Series service valves for fill/flush/drain functionality. A pressure relief valve and temperature gauge are included.

Full details on the 290 Series are shown in section P4

Code	Description	Cv	Lbs	USD
290516A	¾" press	2.0	5.0	475.00
290519A	¾" sweat	2.0	5.0	456.00
290510A	¾" FNPT	2.0	5.0	467.00
290517A	¾" PEX crimp	2.0	5.0	456.00
290518A	¾" PEX exp	2.0	5.0	456.00

Construction details TankMixer™ Kit



The TankMixer Kit takes your tankless water heater to the next level with service valves that allow for easy flushing of the heat exchanger. With the included pressure relief valve and TankMixer mixing valve you can also ensure safe operation of your tankless water heater and accurate temperature control to your fixtures.

Meets requirements of NSF/ANSI/CAN 372. Certified to ASSE 1017, CSA B125.3, UPC, IPC, Low Lead Laws and listed by ICC-ES for use in accordance with the U.S. and Canadian plumbing codes.

THERMOSETTER™

THERMAL BALANCING SET IT AND FORGET IT

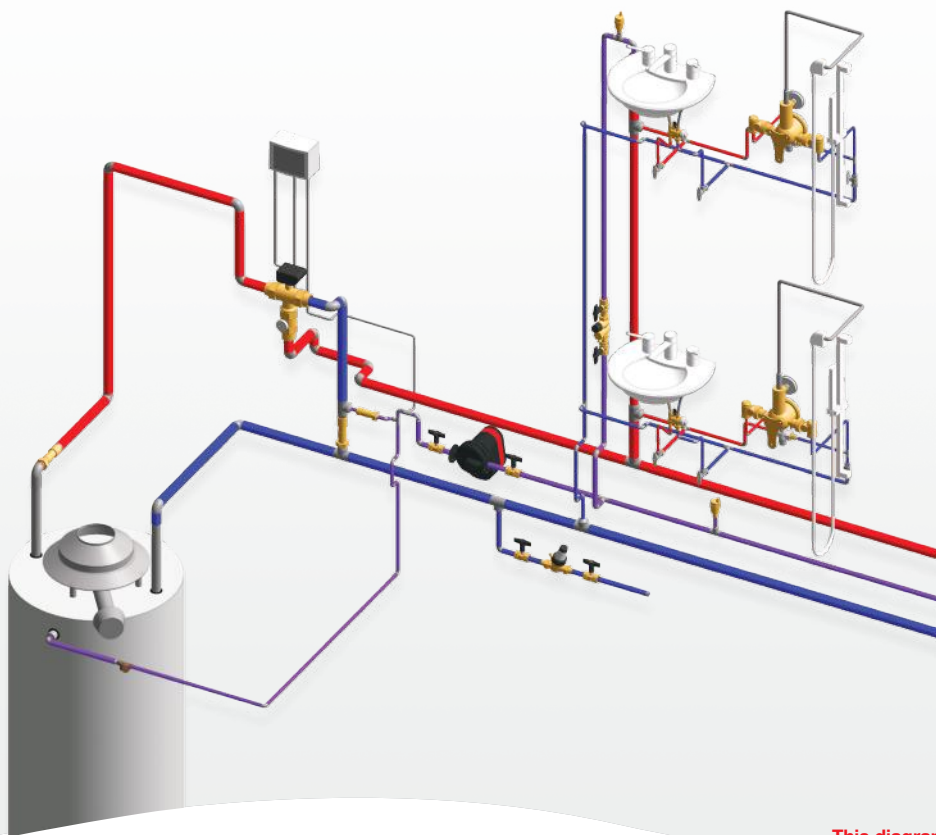


ThermoSetter™ thermal balancing valves maintain precise temperature in recirculation return piping using state-of-the-art modulating control. **Setup is simple** and safe with an easy-to-read, lockable temperature adjustment dial. Enjoy **ease of maintenance** with serviceable cartridge. Models with bypass cartridges available for systems that provide thermal disinfection to control **Legionella bacteria**. Factory assemblies with isolation and check valves are available. **Approvals include compliance with the U.S. and Canadian plumbing codes. CALEFFI GUARANTEED.**

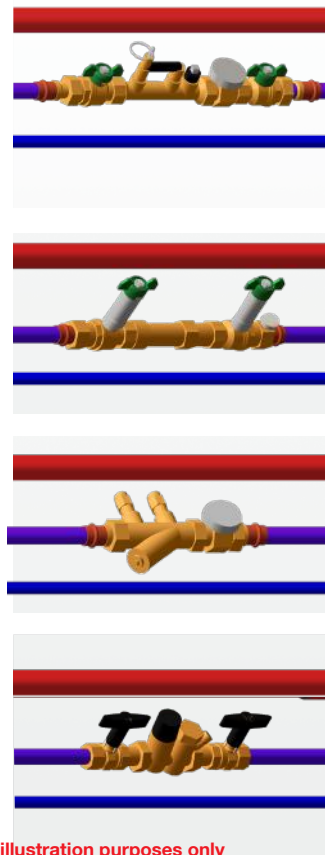


BALANCING VALVES FOR PLUMBING AND HYDRONICS

P2



This diagram is for illustration purposes only



BIM
bim.caleffi.com

PRODUCTS INCLUDED IN SECTION

- Static balancing valves with built-in flowmeter for plumbing
- Static balancing valves with built-in flowmeter for hydronics
- Static balancing valves, fixed orifice, for plumbing and hydronics
- Static balancing valves, variable orifice, for plumbing and hydronics
- Dynamic balancing valves for plumbing and hydronics
- Dynamic balancing valves for hydronics
- Thermal balancing valves for plumbing

STATIC BALANCING VALVES WITH BUILT-IN FLOWMETER FOR PLUMBING



132 QuickSetter+™ sweat

Balancing valve with flow meter.
Direct reading of flow rate.
DZR low-lead brass.
Inlet flow check valve.

Code	Description	Flow scale (gpm)	Lbs	USD
132439AFC	½" sweat union	0.5—1.8	1.8	265.00
132539AFC	¾" sweat union	0.5—1.8	2.0	276.00
132639AFC	1" sweat union	0.5—1.8	2.4	305.00
132559AFC	¾" sweat union	2.0—7.0	2.0	276.00
132659AFC	1" sweat union	2.0—7.0	2.4	305.00
132459AFC	½" sweat union	2.0—7.0	1.8	265.00



132 QuickSetter+™ sweat

Balancing valve with and temperature gauge.
Direct reading of flow rate.
DZR low-lead brass.
Inlet flow check valve.
Dual scale: 30° — 210°F (0° — 100°C).
Gauge accuracy: ± 6°F.

Code	Description	Flow scale (gpm)	Lbs	USD
132438AFC	½" sweat union	0.5—1.8	2.4	304.00
132538AFC	¾" sweat union	0.5—1.8	2.2	316.00
132638AFC	1" sweat union	0.5—1.8	2.8	342.00
132458AFC	½" sweat union	2.0—7.0	2.4	304.00
132558AFC	¾" sweat union	2.0—7.0	2.2	316.00
132658AFC	1" sweat union	2.0—7.0	2.8	342.00



132 QuickSetter+™ press

Balancing valve with flow meter.
Direct reading of flow rate.
DZR low-lead brass.
Inlet flow check valve.

Code	Description	Flow scale (gpm)	Lbs	USD
132436AFC	½" press union	0.5—1.8	1.8	305.00
132536AFC	¾" press union	0.5—1.8	1.8	317.00
132636AFC	1" press union	0.5—1.8	2.2	351.00
132456AFC	½" press union	2.0—7.0	1.8	305.00
132556AFC	¾" press union	2.0—7.0	1.8	317.00
132656AFC	1" press union	2.0—7.0	2.2	351.00



132 QuickSetter+™ press

Balancing valve with and temperature gauge.
Direct reading of flow rate.
DZR low-lead brass.
Inlet flow check valve.
Dual scale: 30° — 210°F (0° — 100°C).
Gauge accuracy: ± 6°F.

Code	Description	Flow scale (gpm)	Lbs	USD
132437AFC	½" press union	0.5—1.8	1.8	349.00
132537AFC	¾" press union	0.5—1.8	2.2	364.00
132637AFC	1" press union	0.5—1.8	2.6	392.00
132457AFC	½" press union	2.0—7.0	1.8	349.00
132557AFC	¾" press union	2.0—7.0	2.2	364.00
132657AFC	1" press union	2.0—7.0	2.6	392.00



132 QuickSetter+™ PEX

Balancing valve with flow meter.
Direct reading of flow rate.
DZR low-lead brass.
Inlet flow check valve.
PEX crimp: ASTM F1807
PEX expansion: ASTM F1960

Code	Description	Flow scale (gpm)	Lbs	USD
132434AFC	½" PEX crimp union	0.5—1.8	1.8	265.00
132432AFC	½" PEX expansion union	0.5—1.8	1.8	265.00
132534AFC	¾" PEX crimp union	0.5—1.8	2.0	276.00
132532AFC	¾" PEX expansion union	0.5—1.8	2.0	276.00
132634AFC	1" PEX crimp union	0.5—1.8	2.2	319.00
132632AFC	1" PEX expansion union	0.5—1.8	2.2	319.00
132454AFC	½" PEX crimp union	2.0—7.0	1.8	265.00
132452AFC	½" PEX expansion union	2.0—7.0	1.8	265.00
132554AFC	¾" PEX crimp union	2.0—7.0	2.0	276.00
132552AFC	¾" PEX expansion union	2.0—7.0	2.0	276.00
132654AFC	1" PEX crimp union	2.0—7.0	2.2	319.00
132652AFC	1" PEX expansion union	2.0—7.0	2.2	319.00



132 QuickSetter+™ PEX

Balancing valve with and temperature gauge.
Direct reading of flow rate.
DZR low-lead brass.
Inlet flow check valve.
PEX crimp: ASTM F1807
PEX expansion: ASTM F1960

Code	Description	Flow scale (gpm)	Lbs	USD
132435AFC	½" PEX crimp union	0.5—1.8	2.2	304.00
132433AFC	½" PEX expansion union	0.5—1.8	2.2	304.00
132535AFC	¾" PEX crimp union	0.5—1.8	2.4	316.00
132533AFC	¾" PEX expansion union	0.5—1.8	2.4	316.00
132635AFC	1" PEX crimp union	0.5—1.8	2.6	357.00
132633AFC	1" PEX expansion union	0.5—1.8	2.6	357.00
132455AFC	½" PEX crimp union	2.0—7.0	2.2	304.00
132453AFC	½" PEX expansion union	2.0—7.0	2.2	304.00
132555AFC	¾" PEX crimp union	2.0—7.0	2.4	316.00
132553AFC	¾" PEX expansion union	2.0—7.0	2.4	316.00
132655AFC	1" PEX crimp union	2.0—7.0	2.6	357.00
132653AFC	1" PEX expansion union	2.0—7.0	2.6	357.00

Complies with NSF/ANSI/CAN 372-2000, low lead laws, for use in accordance with the U.S. and Canadian plumbing codes.

STATIC BALANCING VALVES WITH BUILT-IN FLOWMETER FOR HYDRONICS



132 QuickSetter™ press

Balancing valve with flow meter.
Direct reading of flow rate.
No sight gauge clouding or scaling.
Brass valve body and flow meter.
Max. working pressure: 150 psi.
Temperature range: 14°—230°F.
Max. percentage of glycol: 50%.
Insulation jacket included.



132 QuickSetter™

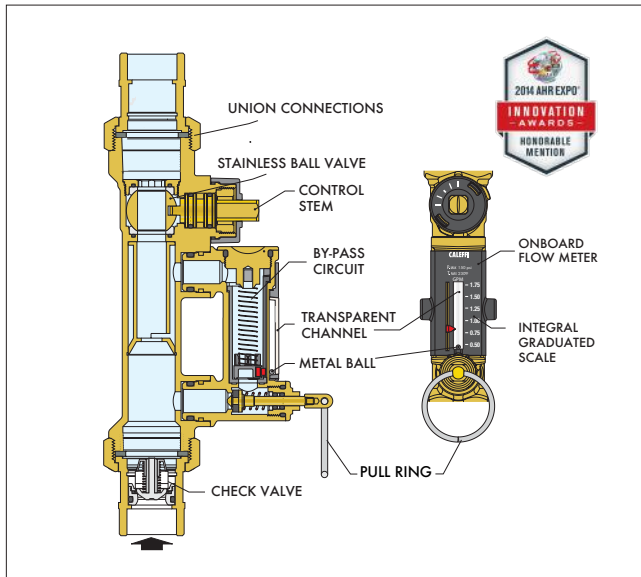
Balancing valve with flow meter.
Direct reading of flow rate.
No sight gauge clouding or scaling.
Brass valve body and flow meter.
Max. working pressure: 150 psi.
Temperature range: 14°—230°F.
Max. percentage of glycol: 50%.
Insulation jacket included.

Code	Description	Flow scale (gpm)	Lbs	USD
132436A	½" press	0.5—1.8	2.2	226.00
132556A	¾" press	2.0—7.0	2.0	254.00
132666A	1" press	3.0—10	2.4	298.00
132776A	1¼" press	5.0—19	2.8	394.00
132886A	1½" press	8.0—32	3.4	469.00
132996A	2" press	12—50	4.4	574.00

Code	Description	Flow scale (gpm)	Lbs	USD
132432A	½" FNPT	0.5—1.8	2.0	210.00
132552A	¾" FNPT	2.0—7.0	1.8	226.00
132662A	1" FNPT	3.0—10	2.4	264.00
132772A	1¼" FNPT	5.0—19	2.8	351.00
132882A	1½" FNPT	8.0—32	3.4	416.00
132992A	2" FNPT	12—50	4.4	509.00

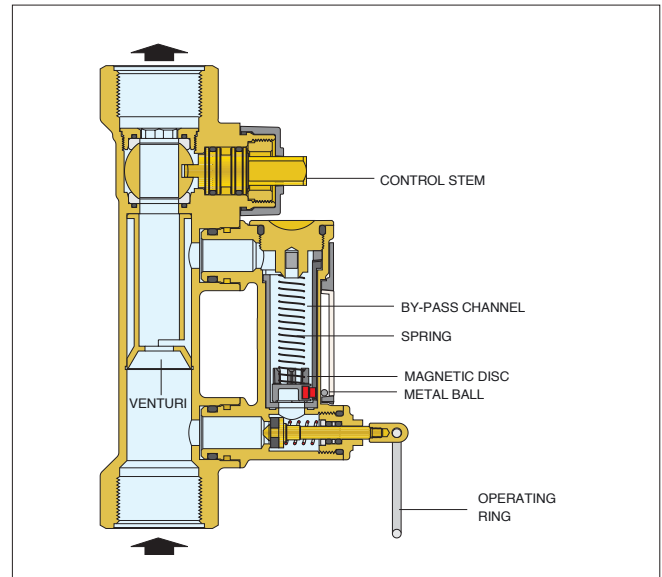
STATIC BALANCING VALVES WITH BUILT-IN FLOWMETER

Construction details for QuickSetter+™



Connection size	Flow rate (gpm)	Fully open Cv
½"	0.5 - 1.8	1.0
¾"	0.5 - 1.8	1.0
1"	0.5 - 1.8	1.0
½"	2.0 - 7.0	6.3
¾"	2.0 - 7.0	6.3
1"	2.0 - 7.0	6.3

Construction details for QuickSetter™



Connection size	Flow rate (gpm)	Fully open Cv
½"	0.5 - 1.8	3.0
¾"	2.0 - 7.0	6.3
1"	3.0 - 10	8.3
1¼"	5.0 - 19	15
1½"	8.0 - 32	32
2"	12 - 50	54

ACCESSORIES



See 290030 and NA108 isolation valves in Section 6D.

Code	Description	Lbs	USD
290030	Isolation ball valve 1" M x 1" F union	1.0	47.60
NA10815	Stem extension for 290030	0.2	27.10



NA108

NPT full port ball valves with extended operator handle for insulated or bare pipes. For use with hot or cold water piping in plumbing or hydronic applications. High strength forged low lead brass. Blowout-proof stem with dual o-ring seals. Pressure rating 600 WOG. Temperature rating -4° — 366°F.

Code	Description	Lbs	USD
NA10824	½" FNPT ball valve low lead	0.4	38.40
NA10825	¾" FNPT ball valve low lead	0.6	47.10
NA10826	1" FNPT ball valve low lead	1.0	61.10
NA10827	1¼" FNPT ball valve low lead	1.6	102.00
NA10828	1½" FNPT ball valve low lead	1.9	129.00
NA10829	2" FNPT ball valve low lead	3.0	314.00



Replacement flow meter.

Code	Description	Lbs	USD
F0000940	Replacement flowmeter 0.5 to 1.75 GPM	0.2	116.00
F0000941	Replacement flowmeter 2.0 to 7.0 GPM	0.2	116.00
F0000942	Replacement flowmeter 3.0 to 10 GPM	0.2	116.00
F0000943	Replacement flowmeter 5.0 to 19 GPM	0.2	123.00
F0000944	Replacement flowmeter 8.0 to 32 GPM	0.2	123.00
F0000945	Replacement flowmeter 12 to 50 GPM	0.2	123.00
F0000946	Replacement flowmeter 30 to 105GPM	0.2	129.00
F0000947	Replacement flowmeter 38 to 148 GPM	0.2	129.00
F0000948	Replacement flowmeter 55 to 210 GPM	0.2	129.00
F19346	Replacement by-pass valve stem*	0.2	42.50

*With operating ring



QuickSetter+™ Insulation sleeve for valve and fitting on each end.

Code	Description	Lbs	USD
F0000926	For models with temperature gauge	0.1	42.40
112001	For models without temperature gauge	0.1	41.80



QuickSetter+™ replacement body. See fitting section table in Section 8.

Code	Description	Lbs	USD
132637	0.5 - 1.8 GPM	1.0	210.00
132657	2.0 - 7.0 GPM	1.0	221.00

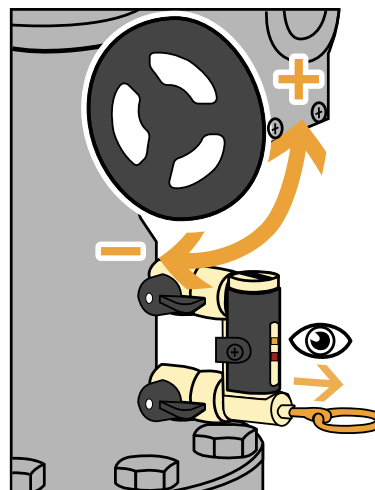
STATIC BALANCING VALVES WITH BUILT-IN FLOWMETER FOR HYDRONICS



132 QuickSetter™ flange

Balancing valve with flow meter. Direct reading of flow rate. ANSI 125 flanged cast iron body. Brass flow meter. Max. working pressure: 150 psi. Temperature range: 14° — 230°F. Max. percentage of glycol: 50%.

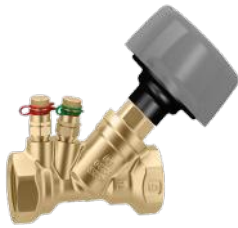
Code	Description	Flow scale (gpm)	Lbs	USD
132060A	2½" ANSI flange	30—105	35	1,256.00
132080A	3" ANSI flange	38—148	62	1,675.00
132100A	4" ANSI flange	55—210	67	2,556.00



The 132 Series balancing valve accurately sets the flow rate of heating and cooling transfer fluid. The flow meter is housed in a bypass circuit on the valve body and can be shut off during normal operation. The flow meter permits fast and easy circuit balancing without added differential pressure gauges and reference charts.

STATIC BALANCING VALVES, FIXED ORIFICE, FOR PLUMBING AND HYDRONICS

P2



130 Flo-Set™ Fixed Orifice Balancing Valve

Fixed orifice.
Multi-turn adjustment range.
Memory stop feature.
Max. working pressure: 232 psi
Working temperature range: -4° — 250°F
Number of adjustment turns: 6
DZR Low-lead brass body.
Stainless steel valve plug.
Teflon® stem guide bearing.

Code	Description	Max Cv	Lbs	USD
130400A	½" NPT female	3.7	1.0	142.00
130500A	¾" NPT female	5.1	1.2	156.00
130600A	1" NPT female	8.8	1.5	185.00
130700A	1¼" NPT female	14	2.0	232.00
130800A	1½" NPT female	20	2.3	288.00
130900A	2" NPT female	31	2.5	384.00

Venturi flow rate measurement device

The 130 Series valves are equipped with a flow rate measurement device based on the Venturi effect. The device is incorporated in the body of the valve upstream of the valve plug.

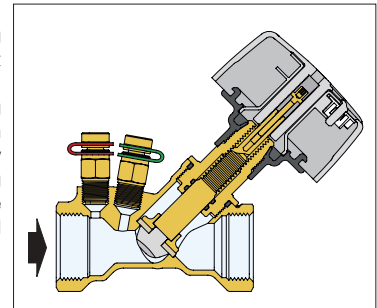


Insulation shell fits 130 Series balancing valves.

Code	Description	Lbs	USD
CBN130400	fits ½" NPT	0.1	31.20
CBN130500	fits ¾" NPT	0.1	33.90
CBN130600	fits 1" NPT	0.1	40.70
CBN130700	fits 1¼" NPT	0.1	50.70
CBN130800	fits 1½" NPT	0.1	63.30
CBN130900	fits 2" NPT	0.1	84.40

Operating Principal

The 130 Series balancing valve is a hydraulic device that controls the flow rate of a fluid. Turning the knob moves a plug within the fluid stream which varies the flow rate. The flow rate is determined according to the pressure drop value measured by a differential pressure meter connected to the pressure test ports.



STATIC BALANCING VALVES, VARIABLE ORIFICE, FOR PLUMBING AND HYDRONICS



142 Flo-Set™ Variable Orifice Balancing Valve

Memory stop feature.
Characterized plug for smooth adjustment.
Maximum working pressure: 232 psi.
Working temperature range: 14° — 250°F.
DZR low-lead brass body.
Meets requirements of ANSI/NSF 372-2011.
Certified to Low Lead Laws and listed by ICC-ES for use in accordance with the U.S. and Canadian plumbing codes.

Code	Description	Max Cv	Lbs	USD
142241A	½" NPT female	3.4	1.0	111.00
142251A	¾" NPT female	5.0	1.2	119.00
142261A	1" NPT female	7.5	1.5	161.00
142271A	1¼" NPT female	13	2.3	231.00
142281A	1½" NPT female	17	3.0	258.00
142291A	2" NPT female	22	3.5	330.00

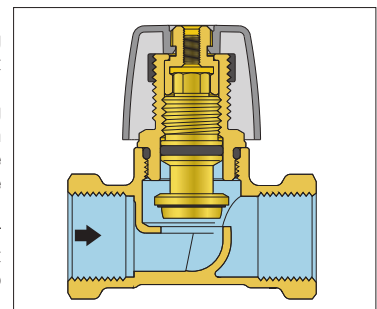


Insulation shell fits 142 Series balancing valves.

Code	Description	Lbs	USD
CBN142241A	fits ½" NPT	0.1	28.60
CBN142251A	fits ¾" NPT	0.1	30.40
CBN142261A	fits 1" NPT	0.1	41.40
CBN142271A	fits 1¼" NPT	0.1	59.10
CBN142281A	fits 1½" NPT	0.1	66.50

Operating Principal

The 142 Series balancing valve is a hydraulic device that controls the flow rate of a fluid. Turning the knob moves a plug within the fluid stream which varies the flow rate. The flow rate is determined according to the pressure drop value measured by a differential pressure meter connected to the pressure test ports and the adjustment knob position.



Meets requirements of ANSI/NSF 372. Certified to Low Lead Laws and listed by ICC-ES for use in accordance with the U.S. and Canadian plumbing codes.

DYNAMIC BALANCING VALVES FOR PLUMBING AND HYDRONICS

NEW



128 FlowCal+™ sweat

Y-body automatic balancing valves. Patented anti-scale, low noise polymer FlowCal™ cartridge.
DZR low-lead brass bodies.
PT ports included.
Max. working pressure: 400 psi.
Temperature range: 32°—212° F.
Max. percentage of glycol: 50%.
Flow rate range: 0.35 to 10 GPM.
Flow accuracy: +/- 10%.
Models with 2" diameter temperature gauge.
Select desired flow rate on **page 30** to complete full part number.

Code	Description	Lbs	USD
128448AFC***	½" sweat, PT ports, check	2.0	162.00
128458AFC***	¾" sweat, PT ports, check	2.0	189.00
128468AFC***	1" sweat, PT ports, check	2.2	198.00

NEW



128 FlowCal+™ NPT

Y-body automatic balancing valves. Patented anti-scale, low noise polymer FlowCal™ cartridge.
DZR low-lead brass bodies.
PT ports included.
Max. working pressure: 400 psi.
Temperature range: 32°—212° F.
Max. percentage of glycol: 50%.
Flow rate range: 0.35 to 10 GPM.
Flow accuracy: +/- 10%.
Models with 2" diameter temperature gauge.
Select desired flow rate on **page 30** to complete full part number.

Code	Description	Lbs	USD
128440AFC***	½" NPT male, PT ports, check	2.0	167.00
128450AFC***	¾" NPT male, PT ports, check	1.8	194.00
128460AFC***	1" NPT male, PT ports, check	2.0	200.00

NEW



128 FlowCal+™ press

Y-body automatic balancing valves. Patented anti-scale, low noise polymer FlowCal™ cartridge.
DZR low-lead brass bodies.
PT ports included.
Max. working pressure: 400 psi.
Temperature range: 32°—212° F.
Max. percentage of glycol: 50%.
Flow rate range: 0.35 to 10 GPM.
Flow accuracy: +/- 10%.
Models with 2" diameter temperature gauge.
Select desired flow rate on **page 30** to complete full part number.

Code	Description	Lbs	USD
128447AFC***	½" press, PT ports, check	2.0	184.00
128457AFC***	¾" press, PT ports, check	2.0	207.00
128467AFC***	1" press, PT ports, check	2.2	215.00

NEW



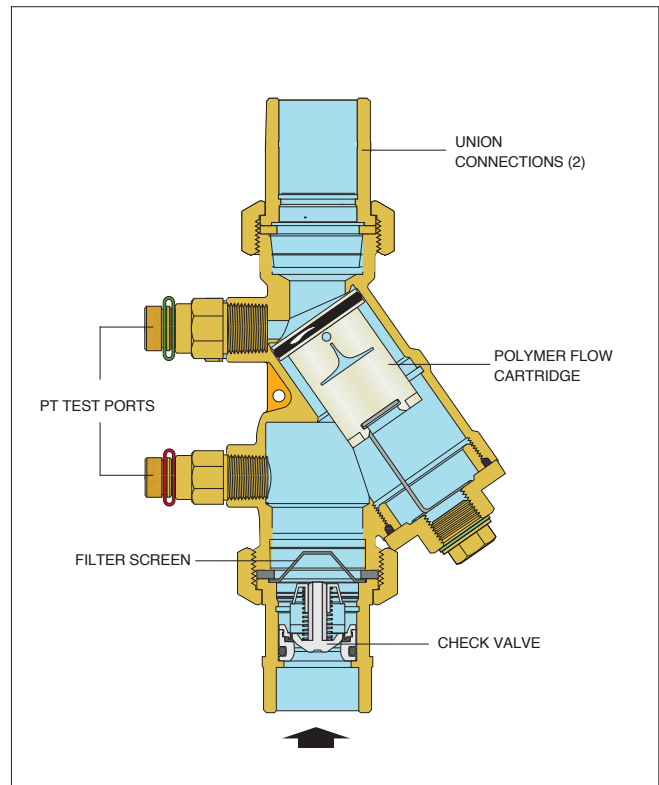
128 FlowCal+™ PEX

Y-body automatic balancing valves. Patented anti-scale, low noise polymer FlowCal™ cartridge.
DZR low-lead brass bodies.
PT ports included.
Max. working pressure: 400 psi.
Temperature range: 32°—212° F.
Max. percentage of glycol: 50%.
Flow rate range: 0.35 to 10 GPM.
Flow accuracy: +/- 10%.
PEX crimp: ASTM F1807.
PEX expansion: ASTM F1960.
Models with 2" diameter temperature gauge.
Select desired flow rate on **page 30** to complete full part number.

Code	Description	Lbs	USD
128445AFC***	½" PEX crimp, PT ports, check	2.0	162.00
128455AFC***	¾" PEX crimp, PT ports, check	2.0	189.00
128465AFC***	1" PEX crimp, PT ports, check	2.2	198.00
128443AFC***	½" PEX expansion, PT ports, check	2.0	162.00
128453AFC***	¾" PEX expansion, PT ports, check	2.0	189.00
128463AFC***	1" PEX expansion, PT ports, check	2.2	198.00

Construction details

The Y-body 128 Series FlowCal uses the same flow cartridges as the 127 Series FlowCal. Because the body can remain in the piping, the Y-body simplifies serviceability and cartridge changeout. The 128 Series includes factory installed PT ports.



Complies with NSF/ANSI/CAN 372, low lead laws, for use in accordance with the U.S. and Canadian plumbing codes. U.S. Patent 7,246,635 B2.

DYNAMIC BALANCING VALVES FOR PLUMBING AND HYDRONICS

NEW



128 FlowCal+™ sweat

Y-body automatic balancing valves. Patented anti-scale, low noise polymer FlowCal™ cartridge.
DZR low-lead brass bodies.
PT ports included.
Max. working pressure: 400 psi.
Temperature range: 32°—212° F.
Max. percentage of glycol: 50%.
Flow rate range: 0.35 to 10 GPM.
Flow accuracy: +/- 10%.
Select desired flow rate on **page 30** to complete full part number.

Code	Description	Lbs	USD
128449AFC***	½" sweat, PT ports, check	1.8	130.00
128459AFC***	¾" sweat, PT ports, check	1.8	137.00
128469AFC***	1" sweat, PT ports, check	2.0	165.00

NEW



128 FlowCal+™ NPT

Y-body automatic balancing valves. Patented anti-scale, low noise polymer FlowCal™ cartridge.
DZR low-lead brass bodies.
PT ports included.
Max. working pressure: 400 psi.
Temperature range: 32°—212° F.
Max. percentage of glycol: 50%.
Flow rate range: 0.35 to 10 GPM.
Flow accuracy: +/- 10%.
Select desired flow rate on **page 30** to complete full part number.

Code	Description	Lbs	USD
128441AFC***	½" NPT male, PT ports, check	1.8	131.00
128451AFC***	¾" NPT male, PT ports, check	1.6	138.00
128461AFC***	1" NPT male, PT ports, check	1.8	167.00

NEW



128 FlowCal+™ press

Y-body automatic balancing valves. Patented anti-scale, low noise polymer FlowCal™ cartridge.
DZR low-lead brass bodies.
PT ports included.
Max. working pressure: 400 psi.
Temperature range: 32°—212° F.
Max. percentage of glycol: 50%.
Flow rate range: 0.35 to 10 GPM.
Flow accuracy: +/- 10%.
Select desired flow rate on **page 30** to complete full part number.

Code	Description	Lbs	USD
128446AFC***	½" press, PT ports, check	1.8	141.00
128456AFC***	¾" press, PT ports, check	1.8	155.00
128466AFC***	1" press, PT ports, check	2.0	173.00

NEW



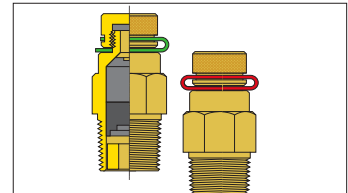
128 FlowCal+™ PEX

Y-body automatic balancing valves. Patented anti-scale, low noise polymer FlowCal™ cartridge.
DZR low-lead brass bodies.
PT ports included.
Max. working pressure: 400 psi.
Temperature range: 32°—212° F.
Max. percentage of glycol: 50%.
Flow rate range: 0.35 to 10 GPM.
Flow accuracy: +/- 10%.
PEX crimp: ASTM F1807.
PEX expansion: ASTM F1960.
Select desired flow rate on **page 30** to complete full part number.

Code	Description	Lbs	USD
128444AFC***	½" PEX crimp, PT ports, check	1.8	130.00
128454AFC***	¾" PEX crimp, PT ports, check	1.8	137.00
128464AFC***	1" PEX crimp, PT ports, check	2.0	165.00
128442AFC***	½" PEX expansion, PT ports, check	1.8	130.00
128452AFC***	¾" PEX expansion, PT ports, check	1.8	137.00
128462AFC***	1" PEX expansion, PT ports, check	2.0	165.00

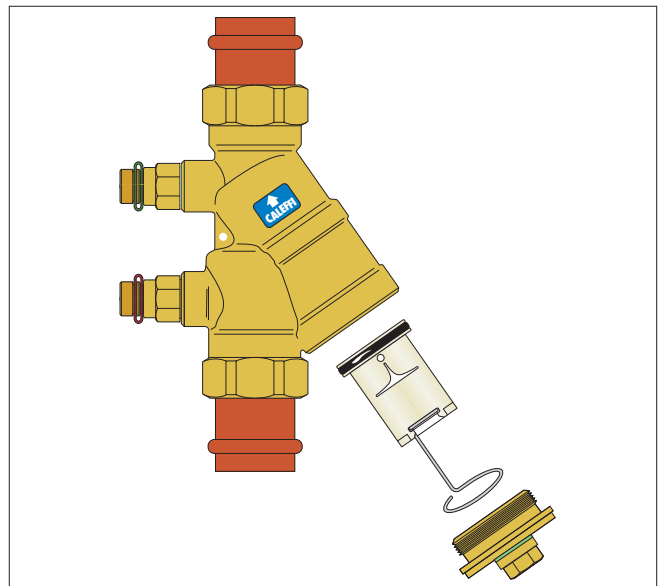
Connecting Device

Integral pressure temperature ports allow for quick confirmation of differential pressure to ensure that the valve is functioning within its control range.



Replaceable cartridge

The internal regulator is assembled in the form of a self contained cartridge so as to permit easy removal from the body for inspection or replacement. It is equipped with a special automatic fixing system with wire and an operating ring for fast and safe positioning without using tools.



Complies with NSF/ANSI/CAN 372, low lead laws, for use in accordance with the U.S. and Canadian plumbing codes. U.S. Patent 7,246,635 B2.

DYNAMIC BALANCING VALVES FOR PLUMBING AND HYDRONICS

NEW



128 FlowCal™ sweat

Y-body automatic balancing valves. Patented anti-scale, low noise polymer FlowCal™ cartridge.
DZR low-lead brass bodies.
PT ports included.
Max. working pressure: 400 psi.
Temperature range: 32°—212° F.
Max. percentage of glycol: 50%.
Flow rate range: 0.35 to 10 GPM.
Flow accuracy: +/- 10%.
Select desired flow rate on **page 30** to complete full part number.

Code	Description	Lbs	USD
128549AF***	½" sweat, PT ports	1.8	120.00
128559AF***	¾" sweat, PT ports	2.0	125.00
128569AF***	1" sweat, PT ports	2.2	141.00

NEW



128 FlowCal™ NPT

Y-body automatic balancing valves. Patented anti-scale, low noise polymer FlowCal™ cartridge.
DZR low-lead brass bodies.
PT ports included.
Max. working pressure: 400 psi.
Temperature range: 32°—212° F.
Max. percentage of glycol: 50%.
Flow rate range: 0.35 to 10 GPM.
Flow accuracy: +/- 10%.
Select desired flow rate on **page 30** to complete full part number.

Code	Description	Lbs	USD
128541AF***	½" NPT male, PT ports	2.0	125.00
128551AF***	¾" NPT male, PT ports	2.1	130.00
128561AF***	1" NPT male, PT ports	2.2	145.00

NEW



128 FlowCal™ press

Y-body automatic balancing valves. Patented anti-scale, low noise polymer FlowCal™ cartridge.
DZR low-lead brass bodies.
PT ports included.
Max. working pressure: 400 psi.
Temperature range: 32°—212° F.
Max. percentage of glycol: 50%.
Flow rate range: 0.35 to 10 GPM.
Flow accuracy: +/- 10%.
Select desired flow rate on **page 30** to complete full part number.

Code	Description	Lbs	USD
128546AF***	½" press, PT ports	2.0	136.00
128556AF***	¾" press, PT ports	2.1	147.00
128566AF***	1" press, PT ports	2.2	175.00

Complies with NSF/ANSI/CAN 372, low lead laws, for use in accordance with the U.S. and Canadian plumbing codes. U.S. Patent 7,246,635 B2.

NEW



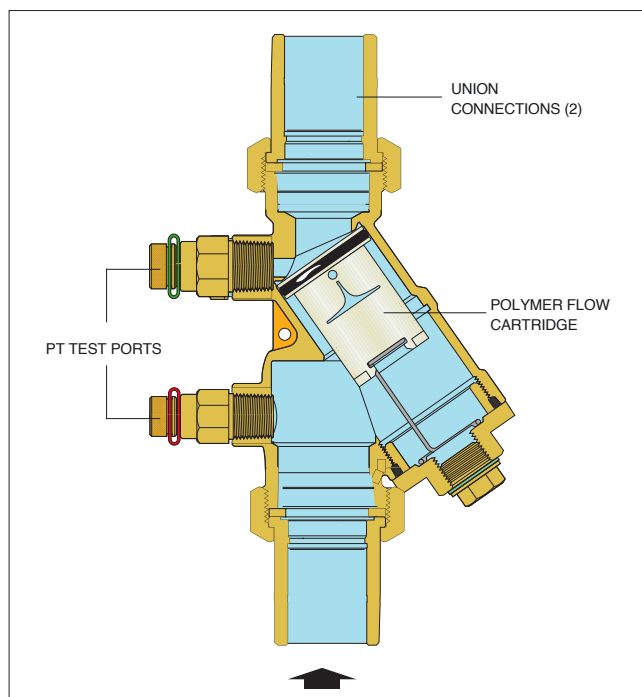
128 FlowCal™ PEX

Y-body automatic balancing valves. Patented anti-scale, low noise polymer FlowCal™ cartridge.
DZR low-lead brass bodies.
PT ports included.
Max. working pressure: 400 psi.
Temperature range: 32°—212° F.
Max. percentage of glycol: 50%.
Flow rate range: 0.35 to 10 GPM.
Flow accuracy: +/- 10%.
PEX crimp: ASTM F1807.
PEX expansion: ASTM F1960.
Select desired flow rate on **page 30** to complete full part number.

Code	Description	Lbs	USD
128544AF***	½" PEX crimp, PT ports	2.0	120.00
128554AF***	¾" PEX crimp, PT ports	2.1	125.00
128564AF***	1" PEX crimp, PT ports	2.2	141.00
128542AF***	½" PEX expansion, PT ports	2.0	120.00
128552AF***	¾" PEX expansion, PT ports	2.1	125.00
128562AF***	1" PEX expansion, PT ports	2.2	141.00

Construction details

The Y-body 128 Series FlowCal uses the same flow cartridges as the 127 Series FlowCal. Because the body can remain in the piping, the Y-body simplifies serviceability and cartridge changeout. The 128 Series includes factory installed PT ports. The FlowCal+ models come with a check valve in the inlet tailpiece, to prevent backward flow in DHW recirculation applications, and are available with or without outlet temperature gauge. The standard FlowCal models do not include a check valve.



DYNAMIC BALANCING VALVES FOR PLUMBING AND HYDRONICS



127 FlowCal™ sweat

Compact automatic recirculation balancing valves.
DZR low-lead brass bodies.
Patented anti-scale, low noise polymer.
Max. working pressure: 230 psi.
Temperature range: 32°—212°F.
Max. percentage of glycol: 50%
Flow rate range: 0.35 to 10 GPM.
Flow accuracy: ±10%.
Select desired flow rate on **page 30** to complete full part number.

Code	Description	Lbs	USD
127349AF ***	½" sweat union	0.8	108.00
127359AF ***	¾" sweat union	0.8	114.00
127369AF ***	1" sweat union	1.0	131.00



127 FlowCal™ NPT

Compact automatic recirculation balancing valves.
DZR low-lead brass bodies.
Patented anti-scale, low noise polymer.
Max. working pressure: 230 psi.
Temperature range: 32°—212°F.
Max. percentage of glycol: 50%
Flow rate range: 0.35 to 10 GPM.
Flow accuracy: ±10%.
Select desired flow rate on **page 30** to complete full part number..

Code	Description	Lbs	USD
127341AF ***	½" NPT male union	1.0	115.00
127351AF ***	¾" NPT male union	1.0	119.00
127361AF ***	1" NPT male union	1.2	135.00



127 FlowCal™ press

Compact automatic recirculation balancing valves.
DZR low-lead brass bodies.
Patented anti-scale, low noise polymer.
Max. working pressure: 230 psi.
Temperature range: 32°—212°F.
Max. percentage of glycol: 50%
Flow rate range: 0.35 to 10 GPM.
Flow accuracy: ±10%.
Select desired flow rate on **page 30** to complete full part number.

Code	Description	Lbs	USD
127346AF ***	½" press union	0.9	127.00
127356AF ***	¾" press union	1.0	140.00
127366AF ***	1" press union	1.3	171.00



127 FlowCal™ PEX

Compact automatic recirculation balancing valves.
DZR low-lead brass bodies.
Patented anti-scale, low noise polymer.
Max. working pressure: 230 psi.
Temperature range: 32°—212°F.
Max. percentage of glycol: 50%
Flow rate range: 0.35 to 10 GPM.
Flow accuracy: ±10%.
PEX crimp: ASTM F1807
PEX expansion: ASTM F1960
Select desired flow rate on **page 30** to complete full part number.

Code	Description	Lbs	USD
127344AF ***	½" PEX crimp union	1.0	108.00
127342AF ***	½" PEX expansion union	1.0	108.00
127354AF ***	¾" PEX crimp union	1.0	114.00
127352AF ***	¾" PEX expansion union	1.0	114.00
127364AF ***	1" PEX crimp union	1.3	131.00
127362AF ***	1" PEX expansion union	1.3	131.00



127 FlowCal™ body

Compact automatic recirculation balancing valves.
DZR low-lead brass bodies.
Patented anti-scale, low noise polymer.
Max. working pressure: 230 psi.
Temperature range: 32°—212°F.
Max. percentage of glycol: 50%
Flow rate range: 0.35 to 10 GPM.
Flow accuracy: ±10%.
Select desired flow rate on **page 30** to complete full part number.

Code	Description	Lbs	USD
127000A ***	127 body + *** GPM cartridge, no fittings	1.0	82.20



Union isolation ball valve
Low lead MxF union fits between valve body and tailpiece.

Code	Description	Lbs	USD
290030	1" M x 1" F union ball valve	1.0	47.60
NA10815	Stem extension for 290030	0.2	27.10

Complies with NSF/ANSI/CAN 372, low lead laws, for use in accordance with the U.S. and Canadian plumbing codes. U.S. Patent 7,246,635 B2.

DYNAMIC BALANCING VALVES FOR PLUMBING AND HYDRONICS



127 FlowCal+™ sweat

Compact automatic recirculation balancing valves.
Patented anti-scale, low noise polymer.
FlowCal™ cartridge.
Inlet flow check valve.
Max. working pressure: 230 psi.
Temperature range: 32°—212°F.
Max. percentage of glycol: 50%
Flow rate range: 0.35 to 10 GPM.
Flow accuracy: ±10%.
Dual scale: 30 – 210°F (0° – 100°C).
Gauge accuracy: ± 6°F.
Select desired flow rate on **page 30** to complete full part number.

Code	Description	Lbs	USD
127148AFC ***	½" sweat union	1.0	156.00
127158AFC ***	¾" sweat union	1.0	170.00
127168AFC ***	1" sweat union	1.2	198.00



127 FlowCal+™ NPT

Compact automatic recirculation balancing valves.
Patented anti-scale, low noise polymer.
FlowCal™ cartridge.
Inlet flow check valve.
Max. working pressure: 230 psi.
Temperature range: 32°—212°F.
Max. percentage of glycol: 50%
Flow rate range: 0.35 to 10 GPM.
Flow accuracy: ±10%.
Dual scale: 30 – 210°F (0° – 100°C).
Gauge accuracy: ± 6°F.
Select desired flow rate on **page 30** to complete full part number.

Code	Description	Lbs	USD
127140AFC ***	½" NPT male union	1.2	161.00
127150AFC ***	¾" NPT male union	1.2	193.00
127160AFC ***	1" NPT male union	1.4	200.00



127 FlowCal+™ press

Compact automatic recirculation balancing valves.
Patented anti-scale, low noise polymer.
FlowCal™ cartridge.
Inlet flow check valve.
Max. working pressure: 230 psi.
Temperature range: 32°—212°F.
Max. percentage of glycol: 50%
Flow rate range: 0.35 to 10 GPM.
Flow accuracy: ±10%.
Dual scale: 30 – 210°F (0° – 100°C).
Gauge accuracy: ± 6°F.
Select desired flow rate on **page 30** to complete full part number.

Code	Description	Lbs	USD
127147AFC ***	½" press union	1.0	151.00
127157AFC ***	¾" press union	1.2	188.00
127167AFC ***	1" press union	1.5	207.00



127 FlowCal+™ PEX

Compact automatic recirculation balancing valves.
Patented anti-scale, low noise polymer.
FlowCal™ cartridge.
Inlet flow check valve.
Max. working pressure: 230 psi.
Temperature range: 32°—212°F.
Max. percentage of glycol: 50%
Flow rate range: 0.35 to 10 GPM.
Flow accuracy: ±10%.
Dual scale: 30 – 210°F (0° – 100°C).
Gauge accuracy: ± 6°F.
PEX crimp: ASTM F1807
PEX expansion: ASTM F1960
Select desired flow rate on **page 30** to complete full part number.

Code	Description	Lbs	USD
127145AFC ***	½" PEX crimp union	1.2	156.00
127143AFC ***	½" PEX expansion union	1.2	156.00
127155AFC ***	¾" PEX crimp union	1.2	170.00
127153AFC ***	¾" PEX expansion union	1.2	170.00
127165AFC ***	1" PEX crimp union	1.5	198.00
127163AFC ***	1" PEX expansion union	1.5	198.00

Flow rate selection for 127 and 128 FlowCal™

GPM	Last 3 digits ...	Differential Pressure Control Ranges (psid)
0.35	G35	2—14
.5	G50	
.75	G75	
1.0	1G0	2—32
1.3	1G3	
1.5	1G5	
1.7	1G7	
2.0	2G0	
2.2	2G2	
2.5	2G5	
2.6	2G6	
3.0	3G0	
3.5	3G5	
4.0	4G0	4—34
4.5	4G5	
5.0	5G0	
6.0	6G0	
7.0	7G0	5—35
8.0	8G0	
9.0	9G0	
10	10G	

Complies with NSF/ANSI/CAN 372, low lead laws, for use in accordance with the U.S. and Canadian plumbing codes. US Patent 7,246,635 B2.

DYNAMIC BALANCING VALVES FOR PLUMBING AND HYDRONICS



127 FlowCal+™ sweat

Compact automatic recirculation balancing valves.
Patented anti-scale, low noise polymer.
DZR low-lead brass bodies.
FlowCal™ cartridge.
Inlet flow check valve.
Max. working pressure: 230 psi.
Temperature range: 32°—212°F.
Max. percentage of glycol: 50%
Flow rate range: 0.35 to 10 GPM.
Flow accuracy: ±10%.
Select desired flow rate on **page 30** to complete full part number.

Code	Description	Lbs	USD
127149AFC ***	1/2" sweat union	0.8	119.00
127159AFC ***	3/4" sweat union	0.8	129.00
127169AFC ***	1" sweat union	1.0	159.00



127 FlowCal+™ NPT

Compact automatic recirculation balancing valves.
Patented anti-scale, low noise polymer.
DZR low-lead brass bodies.
FlowCal™ cartridge.
Inlet flow check valve.
Max. working pressure: 230 psi.
Temperature range: 32°—212°F.
Max. percentage of glycol: 50%
Flow rate range: 0.35 to 10 GPM.
Flow accuracy: ±10%.
Select desired flow rate on **page 30** to complete full part number.

Code	Description	Lbs	USD
127141AFC ***	1/2" NPT male union	1.0	120.00
127151AFC ***	3/4" NPT male union	1.0	128.00
127161AFC ***	1" NPT male union	1.2	161.00



127 FlowCal+™ press

Compact automatic recirculation balancing valves.
Patented anti-scale, low noise polymer.
DZR low-lead brass bodies.
FlowCal™ cartridge.
Inlet flow check valve.
Max. working pressure: 230 psi.
Temperature range: 32°—212°F.
Max. percentage of glycol: 50%
Flow rate range: 0.35 to 10 GPM.
Flow accuracy: ±10%.
Select desired flow rate on **page 30** to complete full part number.

Code	Description	Lbs	USD
127146AFC ***	1/2" press union	0.9	119.00
127156AFC ***	3/4" press union	1.0	147.00
127166AFC ***	1" press union	1.3	169.00

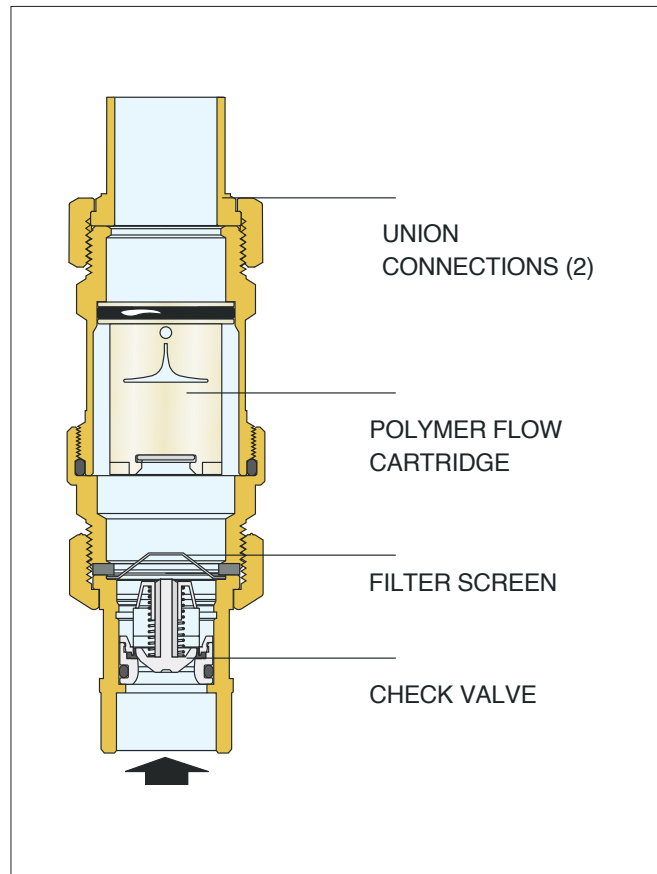


127 FlowCal+™ PEX

Compact automatic recirculation balancing valves.
Patented anti-scale, low noise polymer.
DZR low-lead brass bodies.
FlowCal™ cartridge.
Inlet flow check valve.
Max. working pressure: 230 psi.
Temperature range: 32°—212°F.
Max. percentage of glycol: 50%
Flow rate range: 0.35 to 10 GPM.
Flow accuracy: ±10%.
PEX crimp: ASTM F1807
PEX expansion: ASTM F1960
Select desired flow rate on **page 30** to complete full part number.

Code	Description	Lbs	USD
127144AFC ***	1/2" PEX crimp union	1.0	119.00
127142AFC ***	1/2" PEX expansion union	1.0	129.00
127154AFC ***	3/4" PEX crimp union	1.0	159.00
127152AFC ***	3/4" PEX expansion union	1.0	119.00
127164AFC ***	1" PEX crimp union	1.3	129.00
127162AFC ***	1" PEX expansion union	1.3	159.00

Construction details FlowCal+



Complies with NSF/ANSI/CAN 372, low lead laws, for use in accordance with the U.S. and Canadian plumbing codes. US Patent 7,246,635 B2.

DYNAMIC BALANCING VALVES FOR HYDRONICS

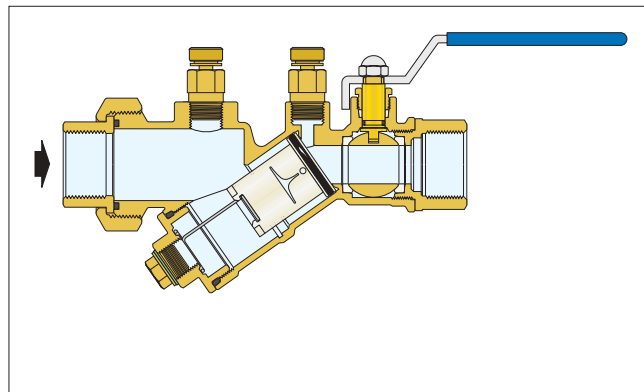
121 FlowCal™

Automatic flow balancing valve with integral ball valve.
Not for use in potable water / plumbing systems, not low lead
Brass body.
Patented anti-scale, low noise polymer FlowCal™ cartridge.
Maximum working pressure: 400 psi (400 WOG).
Working temperature range: 32°—212°F (0°—100°C).
Max. percentage of glycol: 50%.
Differential pressure control ranges: 2—14, 2—32, 4—34, 5—35 psid.
Flow rate: fixed flow rate settings ranging from 0.35—21 GPM.
Flow accuracy: ±10%.
US Patent 7,246,635 B2.

Available with optional factory-installed pressure and temperature test ports
(1213xxx Series).



Code	Description	Lbs	USD
121141A ...	½" NPT female	2.7	142.00
121149A ...	½" sweat	2.7	136.00
121151A ...	¾" NPT female	2.7	143.00
121159A ...	¾" sweat	2.7	137.00
121161A ...	1" NPT female	5.0	294.00
121169A ...	1" sweat	5.0	280.00
121171A ...	1¼" NPT female	5.0	330.00
121179A ...	1¼" sweat	5.0	314.00
121341A ...	½" NPT female with PT test ports	3.2	153.00
121349A ...	½" sweat with PT test ports	3.2	145.00
121351A ...	¾" NPT female with PT test ports	3.2	157.00
121359A ...	¾" sweat with PT test ports	3.2	146.00
121361A ...	1" NPT female with PT test ports	5.5	304.00
121369A ...	1" sweat with PT test ports	5.5	290.00
121371A ...	1¼" NPT female with PT test ports	5.5	340.00
121379A ...	1¼" sweat with PT test ports	5.5	323.00



Select desired flow rate to complete full part number.

Size	GPM	Last 3 digits ...	Differential Pressure Control Ranges (psid)
½", ¾"	0.35	G35	2 — 14
½", ¾"	0.5	G50	
½", ¾"	0.75	G75	
½", ¾"	1	1G0	2 — 32
½", ¾"	1.3	1G3	
½", ¾"	1.5	1G5	
½", ¾"	1.7	1G7	
½", ¾"	2	2G0	
½", ¾"	2.2	2G2	
½", ¾"	2.5	2G5	
½", ¾", 1"	2.6	2G6	
½", ¾", 1"	3	3G0	
½", ¾", 1"	3.5	3G5	
½", ¾", 1", 1¼"	4	4G0	4 — 34
½", ¾", 1", 1¼"	4.5	4G5	
½", ¾", 1", 1¼"	5	5G0	
½", ¾", 1", 1¼"	6	6G0	
½", ¾", 1", 1¼"	7	7G0	
½", ¾", 1", 1¼"	8	8G0	

Size	GPM	Last 3 digits ...	Differential Pressure Control Ranges (psid)
½", ¾", 1", 1¼"	9	9G0	5 — 35
½", ¾", 1", 1¼"	10	10G	
1", 1¼"	11	11G	3 — 32
1", 1¼"	12	12G	
1", 1¼"	13	13G	
1", 1¼"	14	14G	4 — 35
1", 1¼"	15	15G	
1", 1¼"	16	16G	
1", 1¼"	17	17G	
1", 1¼"	18	18G	
1", 1¼"	19	19G	
1", 1¼"	20	20G	
1", 1¼"	21	21G	

Size	Flow Rates
½"	.35 — 10 GPM
¾"	.35 — 10 GPM
1"	2.5—21 GPM
1¼"	4—21 GPM

Replacement flow cartridge kits are available. Consult factory.

THERMAL BALANCING VALVES FOR PLUMBING



1164 ThermoSetter™

Compact adjustable thermal balancing valve for domestic hot water recirculation circuits. Drywell for optional temperature gauge or probe.
DZR low-lead brass body.
Optional outlet check valve.
Max. working pressure: 230 psi.
Adjustment temperature range: 105° — 150°F.
Cv max: 2.1; Cv min: 0.35.
Cv design: 0.69.



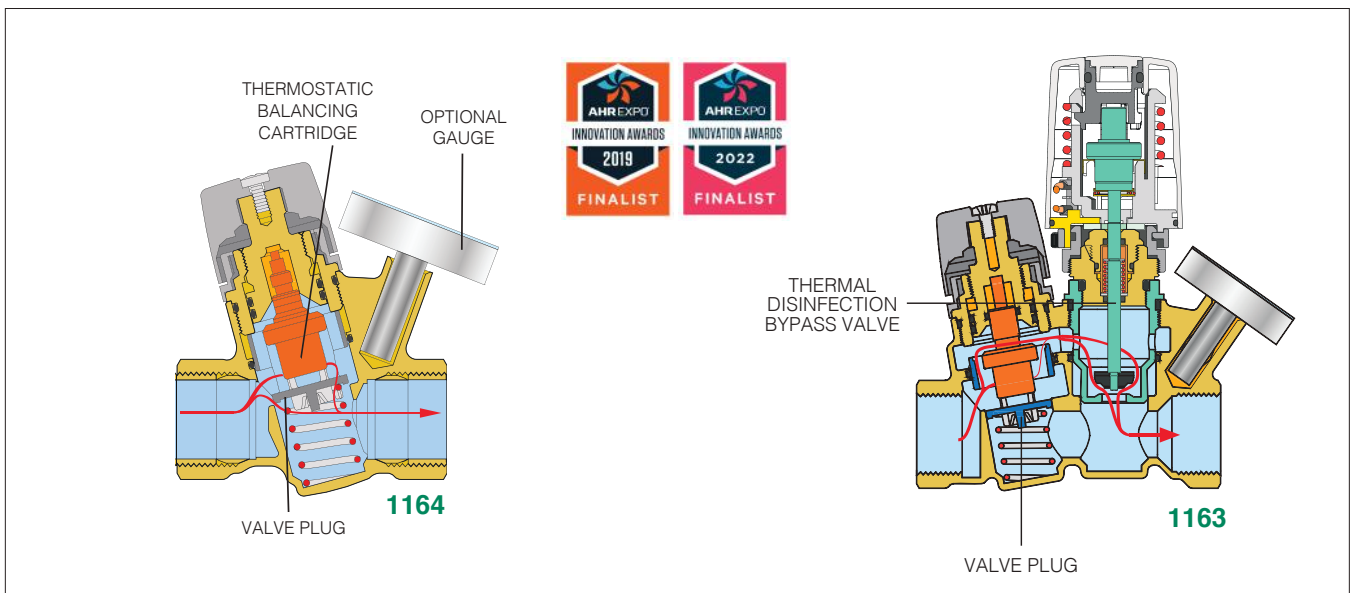
1163 ThermoSetter™

Adjustable thermal balancing valve for domestic hot water recirculation circuits. With by-pass valve for thermal disinfection. Purchase 656 actuator separately. Temperature gauge included. DZR low-lead brass body. Optional outlet check valve.
Max. working pressure: 230 psi.
1/2" and 3/4" models:
Adjustment range; 95° — 140°F
Cv max: 2.1; Cv min: 0.23.
Cv disinfection: 1.2; Cv design: 0.52.
1" and 1 1/4" models:
Adjustment range: 95° — 150°F
Cv max: 4.4; Cv min: 1.0.
Cv disinfection: 2.3; Cv design: 1.9.

Code	Description	Lbs	USD
116440A	1/2" FNPT	1.6	203.00
116440AC	1/2" FNPT, check valve	1.8	247.00
116441A	1/2" FNPT, gauge	1.5	216.00
116441AC	1/2" FNPT, gauge, check valve	1.7	263.00
116450A	3/4" FNPT	1.6	218.00
116450AC	3/4" FNPT, check valve	1.8	271.00
116451A	3/4" FNPT, gauge	1.5	233.00
116451AC	3/4" FNPT, gauge, check valve	1.7	284.00

Code	Description	Lbs	USD
116340A	1/2" FNPT	1.8	307.00
116340AC	1/2" FNPT, check valve	2.0	353.00
116350A	3/4" FNPT	1.7	323.00
116350AC	3/4" FNPT, check valve	1.9	376.00
116360A	1" FNPT, gauge	2.3	426.00
116360AC	1" FNPT, gauge, check valve	2.5	559.00
116370A	1 1/4" FNPT, gauge	2.2	451.00
116370AC	1 1/4" FNPT, gauge, check valve	2.4	597.00

Construction details



Complies with NSF/ANSI/CAN 372 low lead laws for use in accordance with the U.S. and Canadian plumbing codes, and with NSF/ANSI/CAN 61 (180F).

THERMAL BALANCING VALVES FOR PLUMBING



1162,1166 ThermoSetter™

Adjustable thermal balancing valve for domestic hot water recirculation circuits. With thermal by-pass cartridge for thermal disinfection.

DZR low-lead brass body.

Temperature gauge included.

Max. working pressure: 230 psi.

½" and ¾" models:

Adjustment range: 95° – 140°F

Cv max: 2.1; Cv min: 0.23.

Cv disinfection: 1.2; Cv design: 0.52.

1" and 1¼" models:

Adjustment range: 95° – 150°F

Cv max: 4.4; Cv min: 1.0.

Cv disinfection: 2.3; Cv design: 1.9.



1161 ThermoSetter™

Adjustable thermal balancing valve for domestic hot water recirculation circuits. Drywell for optional temperature gauge or probe.

DZR low-lead brass body.

Max. working pressure: 230 psi.

½" and ¾" models:

Adjustment range: 95° – 140°F

Cv max: 2.1; Cv min: 0.23.

Cv disinfection: 1.2; Cv design: 0.52.

1" and 1¼" models:

Adjustment range: 95° – 150°F

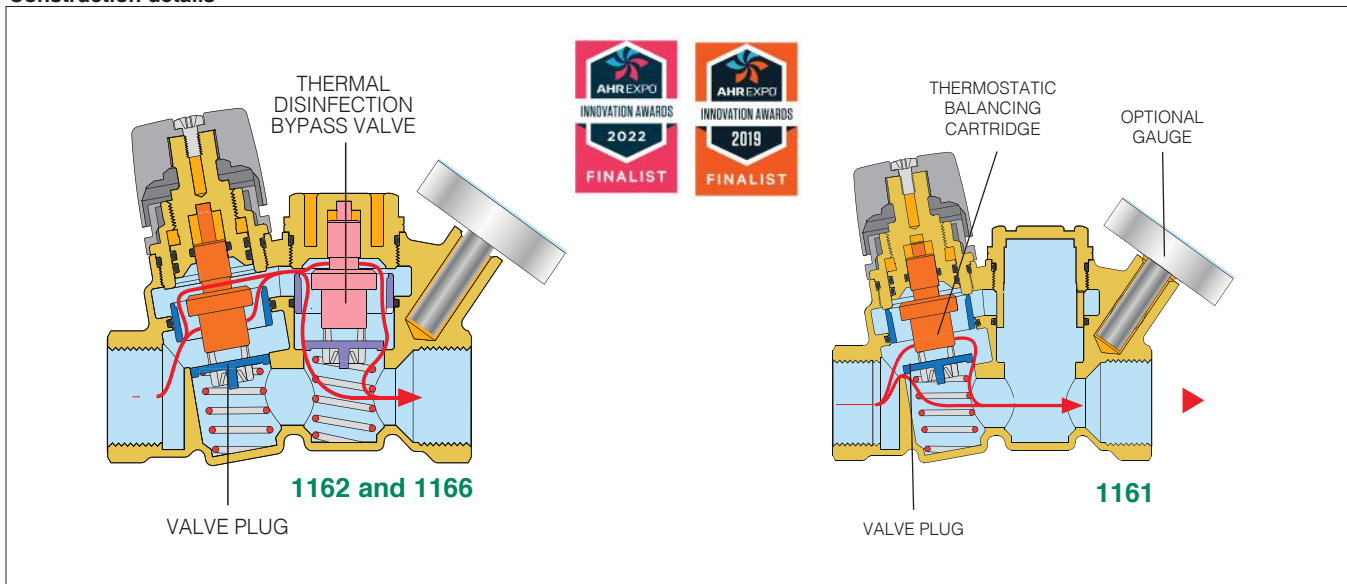
Cv max: 4.4; Cv min: 1.0.

Cv disinfection: 2.3; Cv design: 1.9.

Code	Description	Lbs	USD
116240A	½" FNPT, 160°F bypass	1.8	294.00
116240AC	½" FNPT, check valve, 160°F bypass	2.0	336.00
116250A	¾" FNPT, 160°F bypass	1.7	308.00
116250AC	¾" FNPT, check valve, 160°F bypass	1.9	361.00
116260A	1" FNPT, 160°F bypass	1.8	411.00
116260AC	1" FNPT check, 160°F bypass	2.0	543.00
116270A	1-¼" FNPT, 160°F bypass	1.7	438.00
116270AC	1¼" FNPT, check, 160°F bypass	1.9	583.00
116640A	½" FNPT, 140°F bypass	1.8	294.00
116640AC	½" FNPT, check valve, 140°F bypass	2.0	336.00
116650A	¾" FNPT, 140°F bypass	1.7	308.00
116650AC	¾" FNPT, check valve, 140°F bypass	1.9	361.00
116660A	1" FNPT, 140°F bypass	2.3	411.00
116660AC	1" FNPT, check, 140°F bypass	2.5	543.00
116670A	1¼" FNPT, 140°F bypass	2.2	438.00
116670AC	1¼" FNPT, check, 140°F bypass	2.4	583.00

Code	Description	Lbs	USD
116140A	½" FNPT	1.6	244.00
116140AC	½" FNPT, check valve	1.8	298.00
116141A	½" FNPT, gauge	1.7	260.00
116141AC	½" FNPT, gauge, check valve	1.9	316.00
116150A	¾" FNPT	1.5	262.00
116150AC	¾" FNPT, check valve	1.7	324.00
116151A	¾" FNPT, gauge	1.6	279.00
116151AC	¾" FNPT, gauge, check valve	1.8	342.00
116160A	1" FNPT	2.1	343.00
116160AC	1" FNPT, check	2.3	476.00
116161A	1" FNPT, gauge	2.2	358.00
116161AC	1" FNPT, gauge, check	2.4	492.00
116170A	1¼" FNPT	2.0	369.00
116170AC	1¼" FNPT, check	2.2	515.00
116171A	1¼" FNPT, gauge	2.1	383.00
116171AC	1¼" FNPT, gauge, check	2.3	530.00

Construction details



Complies with NSF/ANSI/CAN 372 low lead laws for use in accordance with the U.S. and Canadian plumbing codes, and with NSF/ANSI/CAN 61 (180F).

THERMAL BALANCING VALVES FOR PLUMBING



Thermal disinfection bypass cartridges.

Code	Description	Lbs	USD
F0001286	140°F bypass cartridge	0.1	52.70
F0000580	160°F bypass cartridge	0.1	52.70



Temperature gauge fits 116 ThermoSetter™.
Working temperature range: 30° — 180°F.

Code	Description	Lbs	USD
116010	1½" dial temp. gauge	0.1	15.00



Actuator disinfection cartridge for use with 656 actuator.

Code	Description	Lbs	USD
116000	Replacement actuator bypass cartridge	0.1	68.00



Check valve fits 116 ThermoSetter™.
DZR low-lead brass.
Max. working pressure: 150 psi.
Max. working temperature: 250°F.

Code	Description	Lbs	USD
NA10469	½" FNPT x MNPT inline check valve	0.1	45.30
NA10467	¾" FNPT x MNPT inline check valve	0.1	52.70
NA51361*	1" MNPT in, 1" FNPT out	1.1	131.00
NA51371*	1¼" MNPT in, 1¼" FNPT out	1.3	144.00



Low lead brass pipe nipples.
For connecting NA108 ball valve to other FNPT valves such as 130, 132, 142, 116 Series.

Code	Description	Lbs	USD
NA10834	½" NPT nipple	0.1	4.80
NA10835	¾" NPT nipple	0.1	7.60
NA10836	1" NPT nipple	0.1	11.90
NA10837	1¼" NPT nipple	0.3	20.60
NA10838	1½" NPT nipple	0.3	21.60
NA10839	2" NPT nipple	0.5	31.40



Replacement main balancing cartridge.

Code	Description	Lbs	USD
F0001516	½", ¾" balancing cartridge	0.1	52.70



Insulation shell fits 116 ThermoSetter™ thermal balancing valve.

Code	Description	Lbs	USD
CBN116140*	Insulation shell for 1161, 1162, 1163	0.1	36.40
CBN116440*	Insulation shell for 1164	0.1	35.70
CBN116160**	Insulation shell for 1161, 1162, 1163	0.1	38.90

*Fits ½" and ¾"
**Fits 1" and 1¼"



NA108

NPT full port ball valves with extended operator handle for insulated or bare pipes. For use with hot or cold water piping in plumbing or hydronic applications. High strength forged low lead brass. Blowout-proof stem with dual o-ring seals. Pressure rating 600 WOG. Temperature rating -4° — 366°F.

Code	Description	Lbs	USD
NA10824	½" FNPT ball valve low lead	0.4	38.40
NA10825	¾" FNPT ball valve low lead	0.6	47.10
NA10826	1" FNPT ball valve low lead	1.0	61.10
NA10827	1¼" FNPT ball valve low lead	1.6	102.00
NA10828	1½" FNPT ball valve low lead	1.9	129.00
NA10829	2" FNPT ball valve low lead	3.0	314.00

To order a ThermoSetter™ with isolation ball valves, add suffix "...001" to any of the 116 Series code numbers listed in these pages. See NA108 Series on page 52 for isolation valve details.



PRESICAL™ PRVS

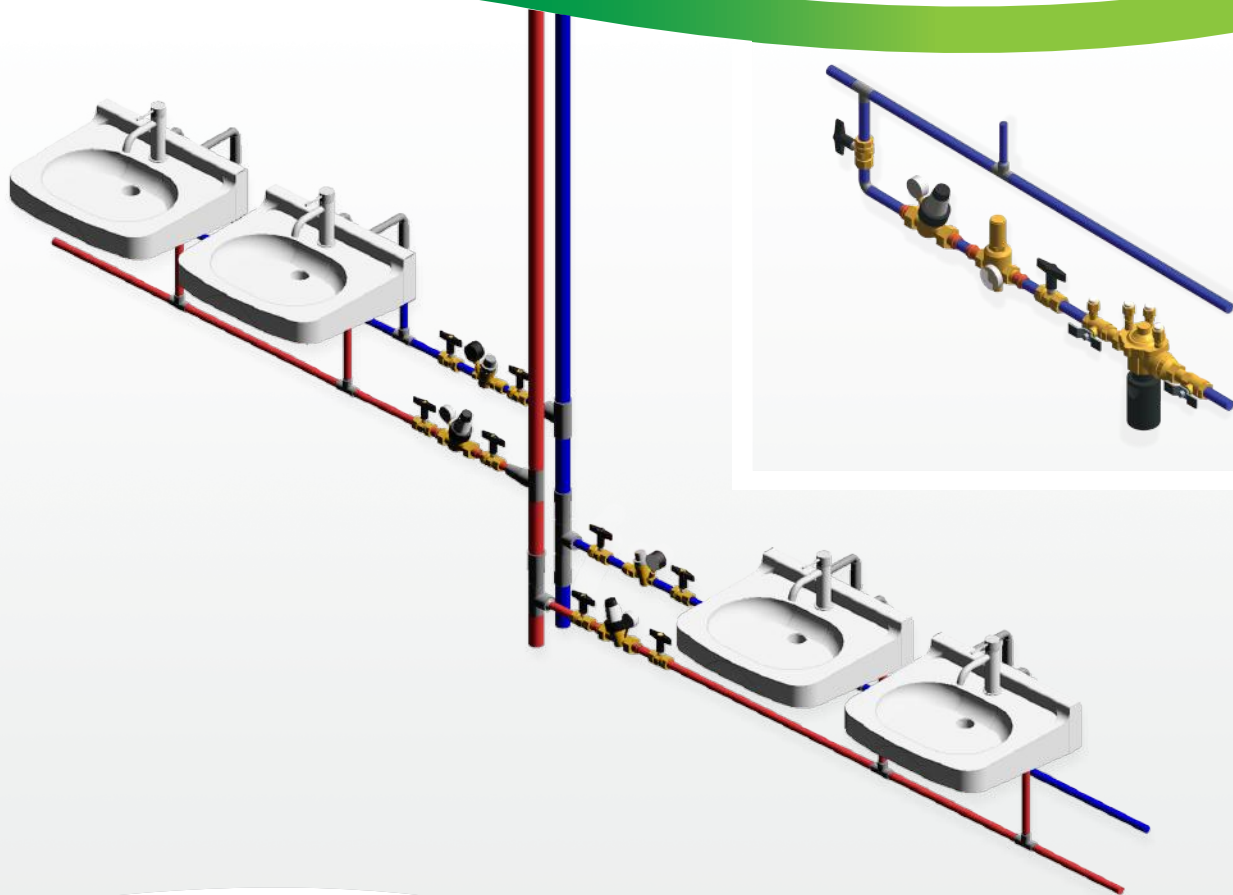
PRECISION ENGINEERED FOR DURABLE PERFORMANCE



The **PresCal™** pressure reducing valve family is constructed of dezincification-resistant low lead brass and low friction moving parts that stand up to hard water and scale for maximum durability. The diaphragm models as well as the new **true piston** models feature a service-friendly **removable cartridge** with integral stainless steel mesh strainer that makes cleaning or rebuilding **fast and easy**. **Approvals include compliance with U.S. and Canadian plumbing codes. CALEFFI GUARANTEED.**



PRVS, BACKFLOW PREVENTERS AND VACUUM RELIEF VALVES



P3

This diagram is for illustration purposes only



BIM
bim.caleffi.com

PRODUCTS INCLUDED IN SECTION

Pressure reducing valves
Backflow preventers, RPZ type
Backflow preventers, dual check
Vacuum relief valve

PRESSURE REDUCING VALVES

535H PresCal™ sweat



Pressure reducing valve for residential and commercial applications.
DZR low-lead brass body.
Max. working pressure: 300 psi.
Max. working temperature: 180°F.
Pressure setting range: 15 — 90 psi.
Front and back set point indication for visibility in any mounting orientation.
UV protective cover included.

535H PresCal™ NPT



Pressure reducing valve for residential and commercial applications.
DZR low-lead brass body.
Max. working pressure: 300 psi.
Max. working temperature: 180°F.
Pressure setting range: 15 — 90 psi.
Front and back set point indication for visibility in any mounting orientation.
UV protective cover included.

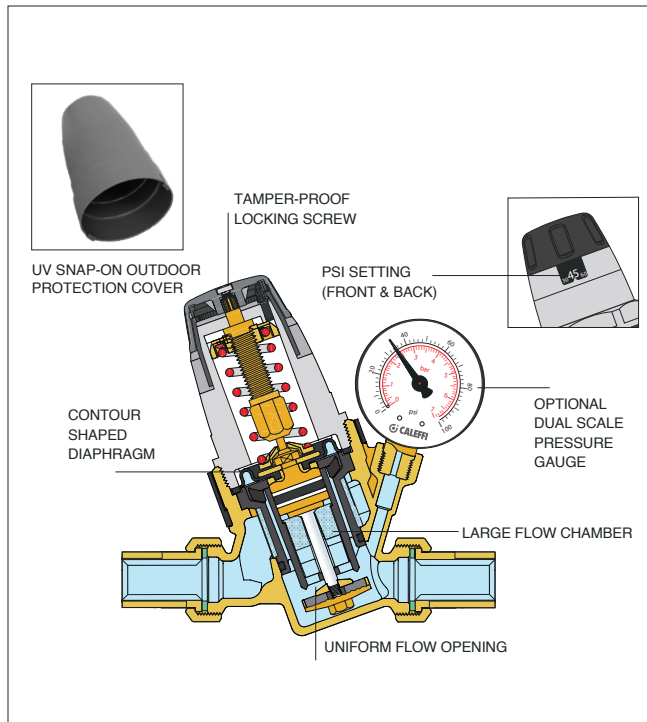
Code	Description	Max GPM	Lbs	USD
535940HA	½" sweat union	7.3	1.9	117.00
535941HA*	½" sweat union	7.3	2.0	128.00
535950HA	¾" sweat union	12	2.2	128.00
535951HA*	¾" sweat union	12	2.3	140.00
535960HA	1" sweat union	19	2.9	168.00
535961HA*	1" sweat union	19	3.0	180.00
535970HA	1¼" sweat union	34	5.6	372.00
535971HA*	1¼" sweat union	34	5.7	383.00
535980HA	1½" sweat union	44	7.3	522.00
535981HA*	1½" sweat union	44	7.4	533.00
535990HA	2" sweat union	70	9.7	677.00
535991HA*	2" sweat union	70	9.8	689.00

GPM flowrate at 6 feet per second water velocity.
*With gauge

Code	Description	Max GPM	Lbs	USD
535340HA	½" NPT female union	7.3	2.0	128.00
535341HA*	½" NPT female union	7.3	2.1	140.00
535350HA	¾" NPT female union	12	2.3	137.00
535351HA*	¾" NPT female union	12	2.4	148.00
535360HA	1" NPT female union	19	3.0	179.00
535361HA*	1" NPT female union	19	3.1	190.00
535370HA	1¼" NPT female union	34	5.7	383.00
535371HA*	1¼" NPT female union	34	5.8	395.00
535380HA	1½" NPT female union	44	7.3	549.00
535381HA*	1½" NPT female union	44	7.4	560.00
535390HA	2" NPT female union	70	9.7	677.00
535391HA*	2" NPT female union	70	9.8	689.00

GPM flowrate at 6 feet per second water velocity.
*With gauge

Construction details 535H PresCal™



535H PresCal™ press



Pressure reducing valve for residential and commercial applications.
DZR low-lead brass body.
Max. working pressure: 300 psi.
Max. working temperature: 180°F.
Pressure setting range: 15 — 90 psi.
Front and back set point indication for visibility in any mounting orientation.
UV protective cover included.

Code	Description	Max GPM	Lbs	USD
535640HA	½" press union	NEW 7.3	1.9	141.00
535641HA*	½" press union	NEW 7.3	2.0	152.00
535650HA	¾" press union	12	2.3	144.00
535651HA*	¾" press union	12	2.4	155.00
535660HA	1" press union	19	3.0	195.00
535661HA*	1" press union	19	3.1	207.00
535670HA	1¼" press union	34	5.8	543.00
535671HA*	1¼" press union	34	5.8	554.00
535680HA	1½" press union	44	7.3	779.00
535681HA*	1½" press union	44	7.4	791.00
535690HA	2" press union	70	9.7	960.00
535691HA*	2" press union	70	9.8	971.00

GPM flowrate at 6 feet per second water velocity.
*With gauge

Complies with: ASSE 1003, CSA B356, NSF/ANSI/CAN 61, NSF/ANSI/CAN 372, Low Lead Laws and listed by ICC-ES. Meets codes IPC, IRC & UPC for use in accordance with the U.S. and Canadian plumbing codes. Plenum rated: compliant with the requirements of standard UL 2043.

PRESSURE REDUCING VALVES



535H PresCal™ PEX

Pressure reducing valve for residential and commercial applications.
DZR low-lead brass body.
Max. working pressure: 300 psi.
Max. working temperature: 180°F.
Pressure setting range: 15 — 90 psi.
PEX crimp: ASTM F1807.
PEX expansion: ASTM F1960.
Front and back set point indication for visibility in any mounting orientation.
UV protective cover included.

Code	Description	Max GPM	Lbs	USD
535750HA	¾" PEX crimp union	12	2.3	128.00
535751HA*	¾" PEX crimp union	12	2.4	140.00
535550HA	¾" PEX expansion union	19	2.3	168.00
535551HA*	¾" PEX expansion union	19	2.4	180.00
535760HA	1" PEX crimp union	12	3.0	128.00
535761HA*	1" PEX crimp union	12	3.1	140.00
535560HA	1" PEX expansion union	19	3.0	168.00
535561HA*	1" PEX expansion union	19	3.1	180.00

GPM flowrate at 6 feet per second water velocity.

*With gauge



PVC jumper nipple with male union thread. The length of the jumper nipple matches the 535H Series valve body face-to-face dimension (B'), allowing the piping to be completed prior to the installation of valve and permitting quick change out from the jumper to the valve.

Code	Description	Lbs	USD
NA11304	Jumper nipple for 535H ½"	0.1	15.90
NA11305	Jumper nipple for 535H ¾"	0.1	17.50
NA11306	Jumper nipple for 535H 1"	0.2	18.70
NA11307	Jumper nipple for 535H 1¼"	0.3	20.10
NA11308	Jumper nipple for 535H 1½"	0.3	21.90
NA11309	Jumper nipple for 535H 2"	0.5	63.20

Complies with: ASSE 1003, CSA B356, NSF/ANSI/CAN 61, NSF/ANSI/CAN 372, Low Lead Laws and listed by ICC-ES. Meets codes IPC, IRC & UPC for use in accordance with the U.S. and Canadian plumbing codes. Plenum rated: compliant with the requirements of standard UL 2043.



535H PresCal™ Body

Replacement valve body.
DZR low lead body.
Gauge port plug NA10438 included with body.
See fitting selection table in Section P5.

Code	Description	Lbs	USD
NA535840HA	½" body	1.9	89.10
NA535841HA	½" body, gauge	2.0	100.80
NA535850HA	¾" body	2.2	93.90
NA535851HA	¾" body, gauge	2.3	105.00
NA535860HA	1" body	2.9	123.90
NA535861HA	1" body, gauge	3.0	135.50
NA535870HA	1¼" body	6.1	270.90
NA535871HA	1¼" body, gauge	6.2	282.50
NA535880HA	1½" body	7.3	382.20
NA535881HA	1½" body, gauge	7.4	393.80
NA535890HA	2" body	9.7	443.10
NA535891HA	2" body, gauge	9.8	455.70



Replacement cartridge for 535H Series pressure reducer.

Code	Description	Lbs	USD
535006HA	Fits 535H ½", ¾", 1"	0.3	65.70
535009HA	Fits 535H 1¼", 1½", 2"	0.5	198.00

PRESSURE REDUCING VALVES



533H PresCal™ Compact sweat

Compact pressure reducing valve for residential and light commercial applications. DZR low lead body with inlet union connection. Low friction anti-scale moving parts. High flow seat design. Adjustment screw for pressure set point. Tamper-resistant cap included. Max. working pressure: 250 psi. Max. working temperature: 180°F. Pressure setting range: 15-80 psi. Factory setting: 45 psi.



533H PresCal™ Compact press

Compact pressure reducing valve for residential and light commercial applications. DZR low-lead brass body with inlet union connection. Low friction anti-scale moving parts. High flow seat design. Adjustment screw for pressure set point. Tamper-resistant cap included. Max. working pressure: 250 psi. Max. working temperature: 180°F. Pressure setting range: 15-80 psi. Factory setting: 45 psi.

Code	Description	Max GPM	Lbs	USD
533940HA*	1/2", sweat union in	5.6	2.0	91.30
533941HA**	1/2", sweat union in	5.6	2.1	104.00
533950HA*	3/4", sweat union in	10	2.3	65.90
533951HA**	3/4", sweat union in	10	2.4	77.30

*FNPT outlet

**FNPT outlet with gauge

Code	Description	Max GPM	Lbs	USD
533640HA*	1/2", press union in	10	2.3	110.00
533641HA**	1/2", press union in	10	2.4	121.00
533650HA*	3/4", press union in	10	2.3	65.90
533651HA**	3/4", press union in	10	2.4	77.30

*FNPT outlet

**FNPT outlet with gauge



533H PresCal™ Compact NPT

Compact pressure reducing valve for residential and light commercial applications. DZR low-lead brass body with inlet union connection. Low friction anti-scale moving parts. High flow seat design. Adjustment screw for pressure set point. Tamper-resistant cap included. Max. working pressure: 250 psi. Max. working temperature: 180°F. Pressure setting range: 15-80 psi. Factory setting: 45 psi.



533H PresCal™ Compact PEX

Compact pressure reducing valve for residential and light commercial applications. DZR low-lead brass body with inlet union connection. Low friction anti-scale moving parts. High flow seat design. PEX crimp: ASTM F1807. PEX expansion: ASTM F1960. Adjustment screw for pressure set point. Tamper-resistant cap included. Max. working pressure: 250 psi. Max. working temperature: 180°F. Pressure setting range: 15-80 psi. Factory setting: 45 psi.

Code	Description	Max GPM	Lbs	USD
533340HA*	1/2", NPT female union in	5.6	1.9	100.00
533341HA**	1/2", NPT female union in	5.6	2.0	113.00
533350HA*	3/4", NPT female union in	10	2.2	65.90
533351HA**	3/4", NPT female union in	10	2.3	77.30

*FNPT outlet

**FNPT outlet with gauge

Code	Description	Max GPM	Lbs	USD
533750HA*	3/4", PEX crimp union in	10	2.3	65.90
533751HA**	3/4", PEX crimp union in	10	2.4	77.30
533850HA*	3/4", PEX expan union in	10	2.3	65.90
533851HA**	3/4", PEX expan union in	10	2.3	77.30

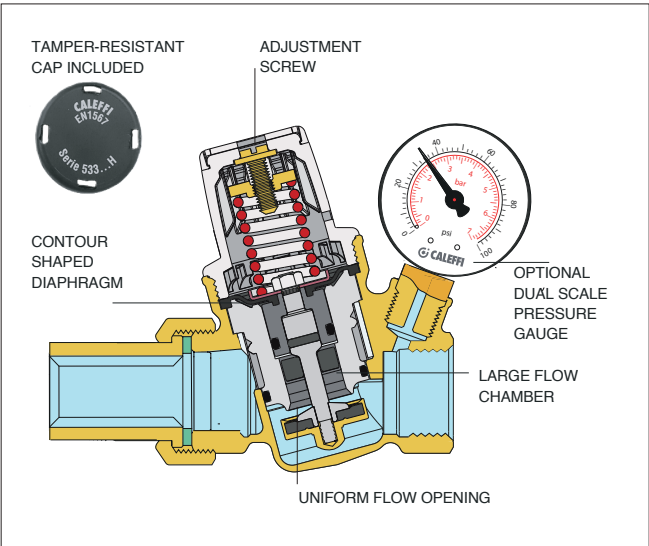
*FNPT outlet

**FNPT outlet with gauge

Complies with: ASSE 1003, CSA B356, NSF/ANSI/CAN 61, NSF/ANSI/CAN 372, Low Lead Laws and listed by ICC-ES. Meets codes IPC, IRC & UPC for use in accordance with the U.S. and Canadian plumbing codes.

PRESSURE REDUCING VALVES

Construction details 533H PresCal™



Replacement cartridge for 533H Series pressure reducer.

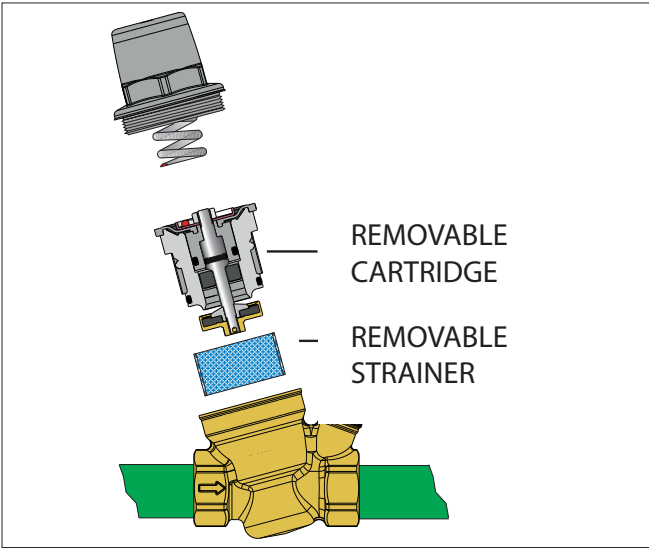
Code	Description	Lbs	USD
533000H	Fits 533H 1/2", 3/4"	0.2	49.10



533H PresCal™ Body

Replacement valve body.
DZR low lead body.
Gauge port plug NA10438 included with body.
See fitting selection table in Section P5.

Code	Description	Lbs	USD
NA533449HA	1/2" body	0.7	81.60
NA533459HA	3/4" body	0.9	86.30



Pressure gauge fits 535H and 533H Series pressure reducers.
Dial size: 2".
Pressure range: 0—100 psi / 0-7 bar.
Connection: 1/8" NPT.

Code	Description	Lbs	USD
NA10273	1/8" NPT male	0.1	14.60

PRESSURE REDUCING VALVES



536 PresCal™ HP sweat High Range

High performance piston type pressure reducing valve for high rise buildings and other applications where high pressures are present and require staged pressure control. DZR low-lead brass body.
Pressure gauge: 0-200 psi.
Max. working pressure: 360 psi.
Max. working temperature: 180°F.
Pressure setting range: 90 – 150 psi
Factory setting: 115 psi



536 PresCal™ HP NPT High Range

High performance piston type pressure reducing valve for high rise buildings and other applications where high pressures are present and require staged pressure control. DZR low-lead brass body.
Pressure gauge: 0-200 psi.
Max. working pressure: 360 psi.
Max. working temperature: 180°F.
Pressure setting range: 90 – 150 psi
Factory setting: 115 psi

Code	Description	M a x	Lbs	USD
536043A 109	½" sweat	7.3	3.3	321.00
536053A 109	¾" sweat	12	4.4	354.00
536063A 109	1" sweat	19	5.0	468.00
536073A 109	1¼" sweat	34	7.5	648.00
536083A 109	1½" sweat	44	8.8	793.00
536093A 109	2" sweat	70	12	1,020.00

NEW

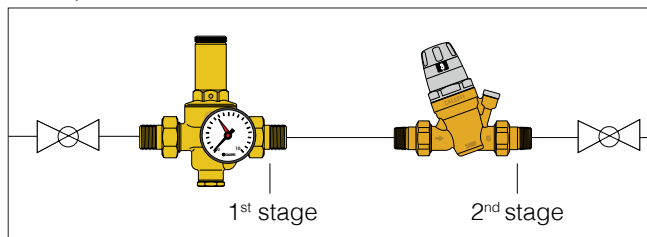


Gauge for high range.
2½" dial.
¼" CBM

Code	Description	Lbs	USD
NA10813	0-200 psi	0.4	54.10

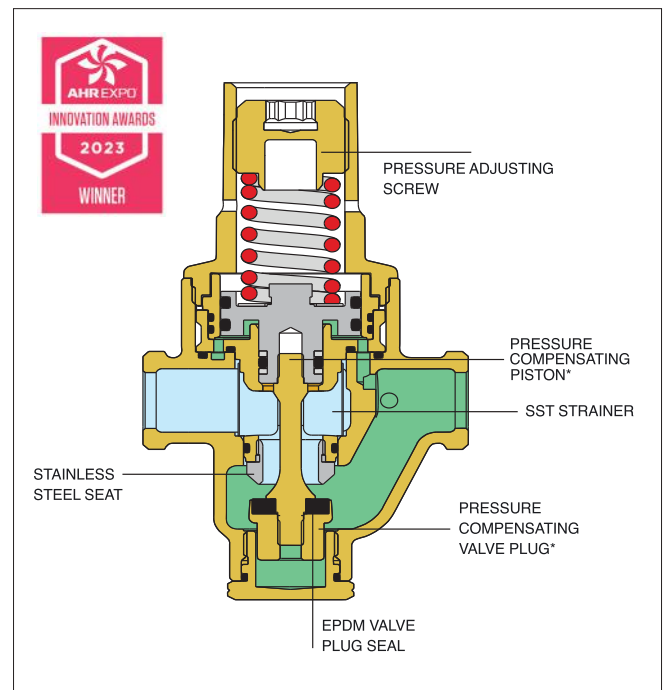
Application diagram

The high range 536A PresCal HP is designed for 1st stage pressure control due to its adjustment range of 90 - 150 psi. The 2nd stage PRV is typically a diaphragm type, such as the 535H PresCal, with an adjustment range of 15 - 90 psi.



Code	Description	Max GPM	Lbs	USD
536043A 103	½" NPT female	7.3	3.3	338.00
536053A 103	¾" NPT female	12	4.4	372.00
536063A 103	1" NPT female	19	5.0	491.00
536073A 103	1¼" NPT female	34	7.5	680.00
536083A 103	1½" NPT female	44	8.8	835.00
536093A 103	2" NPT female	70	11	1,073.00

Construction details 536 PresCal™ HP



Complies with NSF/ANSI/CAN 372, Drinking Water System Components-Lead Content Reduction of Lead in Drinking Water Act, California Health and Safety Code 116875 S.3874, Reduction in Drinking Water Act, Vermont Act 193 - The Lead in Plumbing Supplies Law and Maryland's Lead Free Law HB.372, as certified by ICC-ES, file PMG-1360.

PRESSURE REDUCING VALVES



536 PresCal™ HP sweat Low Range

High performance piston type pressure reducing valve designed for demanding applications where water hammer and pressure spikes are present that would damage a diaphragm type PRV. DZR low-lead brass body. Pressure gauge: 0-100 psi. Max working pressure: 300 psi. Max working temperature: 180°F. Pressure setting range 10 - 90 psi. Factory setting 45 psi

Code	Description	Max GPM	Lbs	USD
536044A 109	1/2" sweat	7.3	3.3	321.00
536054A 109	3/4" sweat	12	4.4	354.00
536064A 109	1" sweat	19	5.0	468.00
536074A 109	1 1/4" sweat	34	7.5	648.00
536084A 109	1 1/2" sweat	44	8.8	793.00



536 PresCal™ HP press Low Range

High performance piston type pressure reducing valve designed for demanding applications where water hammer and pressure spikes are present that would damage a diaphragm type PRV. DZR low-lead brass body. Pressure gauge: 0-100 psi. Max working pressure: 300 psi. Max working temperature: 180°F. Pressure setting range 10 - 90 psi. Factory setting 45 psi

Code	Description	Max GPM	Lbs	USD
536044A 106	1/2" press	7.3	3.3	353.00
536054A 106	3/4" press	12	4.4	409.00
536064A 106	1" press	19	5.0	540.00
536074A 106	1 1/4" press	34	7.5	749.00
536084A 106	1 1/2" press	44	8.8	959.00



O-ring seal and NA10810 gauge adapter for 536A PresCal™ HP valves.

Code	Description	Lbs	USD
R57264*	O-ring seal	0.1	1.00
NA10810**	1/4" G male x 1/4" FNPT	0.3	24.90

*for NA10810 gauge adapter for high and low range.

**Gauge adapter fitting for high and low range.

Function

The PresCal™HP 536A Series pressure reducing valve is a high performance true piston-type PRV that can withstand the punishing conditions of water hammer while ensuring high pressure reduction and control. Models 536x3A, with set point adjustment range 90 to 150 psi, provide 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 single PRV to control. Models 536x4A, also a piston PRV, comply with ASSE 1003, have a standard adjustment range of 10 to 90 psi and the all-metal design makes them ideal for outdoor locations and irrigation pressure control.



536 PresCal™ HP NPT Low Range

High performance piston type pressure reducing valve designed for demanding applications where water hammer and pressure spikes are present that would damage a diaphragm type PRV. DZR low-lead brass body. Pressure gauge: 0-100 psi. Max working pressure: 300 psi. Max working temperature: 180°F. Pressure setting range 10 - 90 psi. Factory setting 45 psi

Code	Description	Max GPM	Lbs	USD
536044A 103	1/2" NPT female	7.3	3.3	338.00
536054A 103	3/4" NPT female	12	4.4	372.00
536064A 103	1" NPT female	19	5.0	491.00
536074A 103	1 1/4" NPT female	34	7.5	680.00
536084A 103	1 1/2" NPT female	44	8.8	835.00

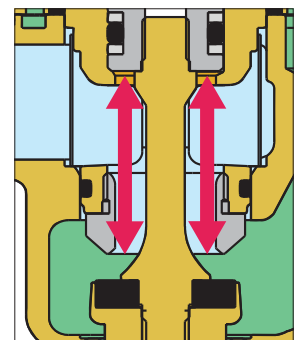


Gauge for low range.
2 1/2" dial.
1/4" CBM

Code	Description	Lbs	USD
NA10817	0-100 psi gauge, low range	0.4	52.50

Pressure compensating

Caleffi 536A Series pressure reducing valves are designed with a pressure balanced seat/plug. This ensures precise and constant controlled outlet pressure despite upstream pressure fluctuations. In the figure, the thrust towards the opening is counterbalanced by the force created by the closing pressure acting on the compensating piston. Since the piston has a surface area equal to that of the valve plug, the two forces cancel out each other.



BACKFLOW PREVENTERS, RPZ TYPE

574 RPZ Backflow Preventer



Testable reduced pressure zone backflow preventer.
DZR low lead brass body.
Max. working pressure: 150 psi.
Max. working temperature: 150°F.



574 RPZ Backflow Preventer

Testable reduced pressure zone backflow preventer.
DZR low lead brass body.
Max. working pressure: 150 psi.
Max. working temperature: 150°F.

Code	Description	Lbs	USD
574004A	½" FNPT	5.0	361.00
574064A	½" press	5.1	382.00
59977*	Upstream check valve	0.1	22.40
59978*	Downstream check valve	0.2	25.90
59979*	Discharge valve assembly	0.1	40.20
NA11604**	Rebuild kit (½") incl. checks, disch valve	0.7	80.00
59980*	Discharge air gap	0.1	54.10
F0001006*	Test port valve (½" - 1")	0.2	24.70

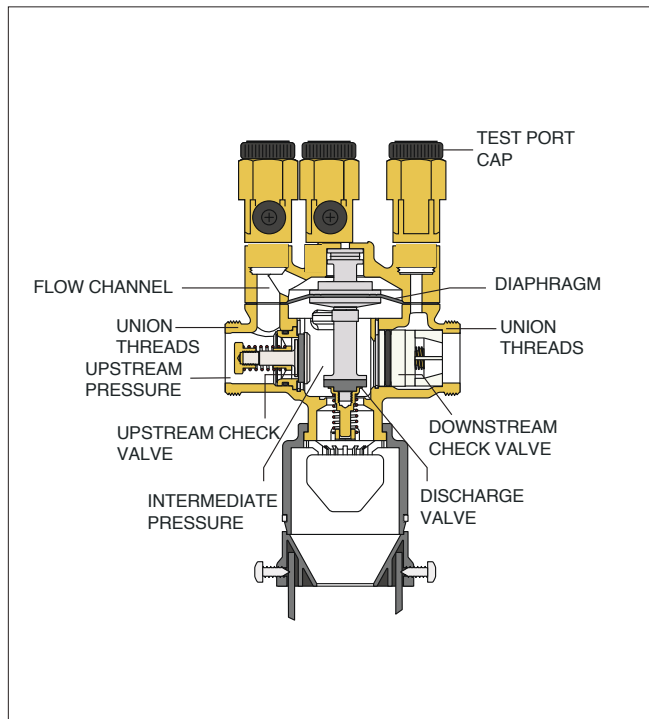
*Replacement

**Rebuild kit

Function

Caleffi 574 Series RPZ backflow preventers have dual unions for simple removal of the body for service or rebuilding. Access to the internal components from the top is also easy without removing the valve from the piping, if desired. Rebuild parts are available by ordering a single part number kit, for each size RPZ. The PT ports are located on top for easy access whether flow is right-to-left or left-to-right.

Construction details ½" RPZ Backflow Preventer



Code	Description	Lbs	USD
574050A	¾" FNPT	9.5	433.00
574056A	¾" press	9.6	471.00
59469*	Upstream check valve (¾")	0.2	57.60
59470*	Downstream check valve (¾")	0.2	61.20
59471*	Discharge valve assembly (¾")	0.3	122.00
59472*	Valve seat (¾")	0.1	43.20
NA11605**	Checks, disch valve, seat for (¾")	0.8	258.00
39623*	Discharge air gap (¾" to 2")	0.2	59.50
F0001006*	Test port valve (½" to 1")	0.2	24.70

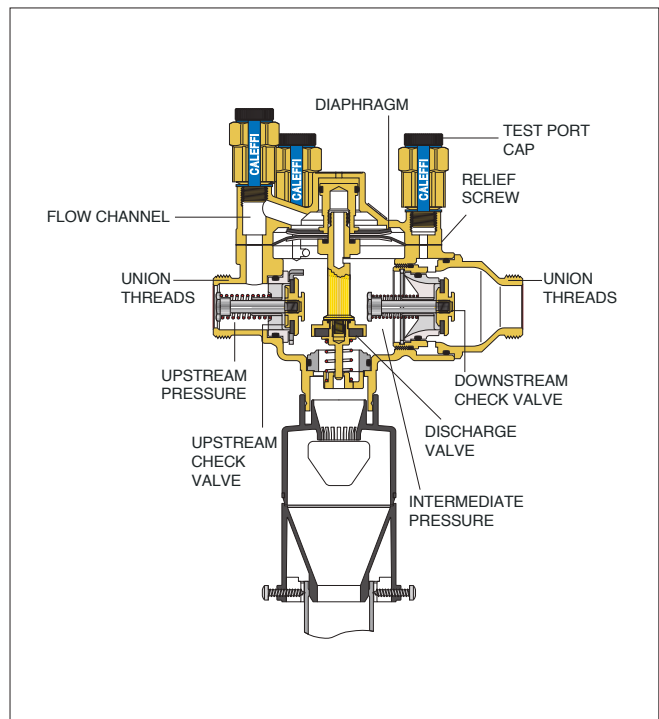
*Replacement

**Rebuild kit

Function

The backflow preventer can be used in all systems where there is danger of the potable water supply system being contaminated. It prevents an accidental reduction in the pressure in the distribution system from causing backflow from contaminated water in user installations.

Construction details ¾ and 1" RPZ Backflow Preventer



Complies with: ASSE 1013, CSA B64.4, NSF/ANSI/CAN 372, Low Lead Laws and listed by ICC-ES. Meets codes IPC, IRC & UPC for use in accordance with the U.S. and Canadian plumbing codes.

BACKFLOW PREVENTERS, RPZ TYPE

574 RPZ Backflow Preventer



Testable reduced pressure zone backflow preventer.
DZR low lead brass body.
Max. working pressure: 150 psi.
Max. working temperature: 150°F.

Code	Description	Lbs	USD
574006A	1" FNPT	11	451.00
574066A	1" press	11	501.00
59455*	Upstream check valve (1")	0.3	94.10
59456*	Downstream check valve (1")	0.3	94.10
59471*	Discharge valve assembly (1")	0.3	122.00
59472*	Valve seat (1")	0.1	43.20
NA11606**	Checks, disch valve, seat (1")	0.1	303.00
39623*	Discharge air gap (¾" to 2")	0.2	59.50
F0001006	Test port valve (½" to 1")	0.2	24.70

*Replacement

**Rebuild kit

574 RPZ Backflow Preventer



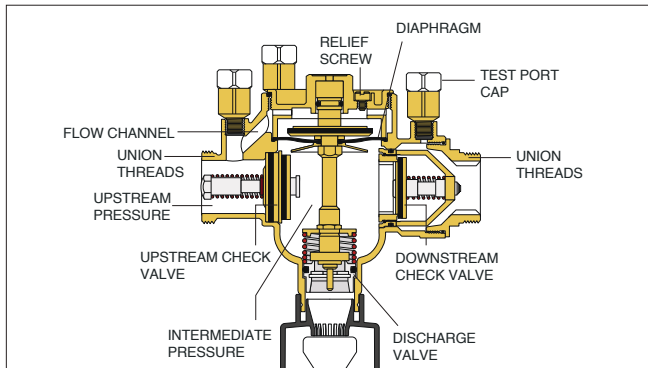
Testable reduced pressure zone backflow preventer.
DZR low lead brass body.
Max. working pressure: 150 psi.
Max. working temperature: 150°F.

Code	Description	Lbs	USD
574801A	1½" FNPT	14	887.00
574806A	1½" press	14	1,006.00
59455*	Upstream check valve (1½")	0.3	94.10
59456*	Downstream check valve (1½")	0.6	94.10
59457*	Discharge valve assembly (1½")	0.6	133.00
59458*	Valve seat (1½")	0.2	45.40
NA11608**	incl. checks, disch valve, seat for (1½")	1.4	367.00
39623*	Discharge air gap (¾" to 2")	0.2	59.50
F0001901	Test port valve (1¼" to 2")	0.2	20.10

*Replacement

**Rebuild kit

Construction details 1¼" and 1½" RPZ Backflow Preventer



574 RPZ Backflow Preventer



Testable reduced pressure zone backflow preventer.
DZR low lead brass body.
Max. working pressure: 150 psi.
Max. working temperature: 150°F.

Code	Description	Lbs	USD
574700A	1¼" FNPT	14	821.00
574706A	1¼" press	14	934.00
59455*	Upstream check valve (1¼")	0.3	94.10
59456*	Downstream check valve (1¼")	0.3	94.10
59457*	Discharge valve assembly (1¼")	0.6	133.00
59458*	Valve seat (1¼")	0.2	45.40
NA11607**	Incl. checks, disch valve, seat for (1¼")	1.4	367.00
39623*	Discharge air gap (¾" to 2")	0.2	59.50
F0001901	Test port valve (1¼" to 2")	0.2	20.10

*Replacement

**Rebuild kit

574 RPZ Backflow Preventer



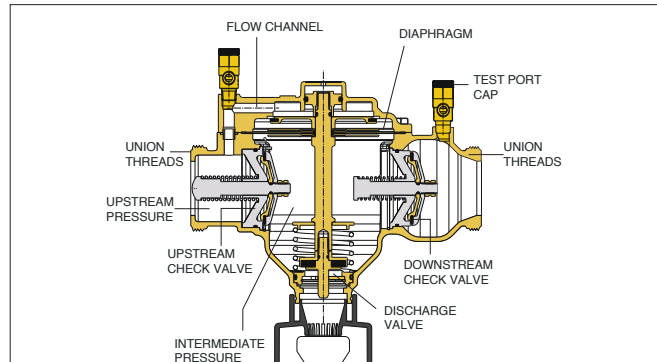
Testable reduced pressure zone backflow preventer.
DZR low lead brass body.
Max. working pressure: 150 psi.
Max. working temperature: 150°F.

Code	Description	Lbs	USD
574900A	2" FNPT	20	1,396.00
574906A	2" press	20	1,606.00
59459*	Upstream check valve (2")	0.4	152.00
59460*	Downstream check valve (2")	0.4	135.00
59461*	Discharge valve assembly (2")	0.7	258.00
59462*	Valve seat (2")	0.3	51.90
NA11609**	incl. checks, disch valve, seat for (2")	1.8	709.00
39623*	Discharge air gap (¾" to 2")	0.2	59.50
F0001901	Test port valve (1¼" to 2")	0.2	20.10

*Replacement

**Rebuild kit

Construction details 2" RPZ Backflow Preventer



Complies with: ASSE 1013, CSA B64.4, NSF/ANSI/CAN 372, Low Lead Laws and listed by ICC-ES. Meets codes IPC, IRC & UPC for use in accordance with the U.S. and Canadian plumbing codes.

BACKFLOW PREVENTERS, DUAL CHECK

2nd QTR



3048 Dual Check Backflow Preventer sweat

Serviceable inline spring check valves.
DZR low-lead brass body.
Max working pressure 160 psi (11 bar).
Operating temperature range 32°–150° F

Code	Description	Lbs	USD
304849A	½" sweat	1.2	79.00
304859A	¾" sweat	1.6	80.00
304869A	1" sweat	1.6	89.00

2nd QTR



3048 Dual Check Backflow Preventer MNPT

Serviceable inline spring check valves.
DZR low-lead brass body.
Max working pressure 160 psi (11 bar).
Operating temperature range 32°–150° F

Code	Description	Lbs	USD
304840A	½" MNPT	1.0	85.00
304850A	¾" MNPT	1.2	86.00
304860A	1" MNPT	1.6	94.00

2nd QTR



3048 Dual Check Backflow Preventer FNPT

Serviceable inline spring check valves.
DZR low-lead brass body.
Max working pressure 160 psi (11 bar).
Operating temperature range 32°–150° F

Code	Description	Lbs	USD
304843A	½" FNPT	1.2	85.00
304853A	¾" FNPT	1.6	86.00

Function

Dual check backflow preventer for residential domestic water supply lines or commercial low-hazard backflow applications, wherever **ASSE 1024** backflow preventers are approved.

2nd QTR



3048 Dual Check Backflow Preventer PEX

Serviceable inline spring check valves.
DZR low-lead brass body.
Max working pressure 160 psi (11 bar).
Operating temperature range 32°–150° F
PEX crimp: ASTM F1807.
PEX expansion: ASTM F1960.

Code	Description	Lbs	USD
304847A	½" PEX crimp	1.0	79.00
304848A	½" PEX expansion	1.0	79.00
304857A	¾" PEX crimp	1.2	80.00
304858A	¾" PEX expansion	1.2	80.00
304867A	1" PEX crimp	1.4	89.00
304868A	1" PEX expansion	1.4	89.00

2nd QTR

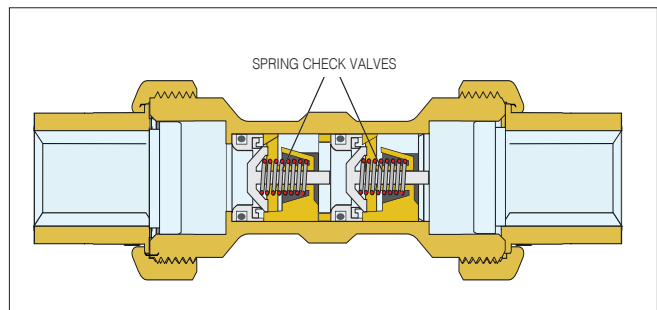


3048 Dual Check Backflow Preventer press

Serviceable inline spring check valves.
DZR low-lead brass body.
Max working pressure 160 psi (11 bar).
Operating temperature range 32°–150° F

Code	Description	Lbs	USD
304846A	½" press	1.0	92.00
304856A	¾" press	1.2	93.00
304866A	1" press	1.4	102.00

Construction details



Complies with the requirement of ASSE 1024 and NSF/ANSI/CAN 372, Low Lead Laws and listed by ICC-ES. Meets codes IPC, IRC & UPC for use in accordance with the U.S. and Canadian plumbing codes.

BACKFLOW PREVENTERS, DUAL CHECK



573 Dual Check Backflow Preventer

Dual check continuous pressure backflow preventer with atmospheric vent.

DZR low Lead brass body.

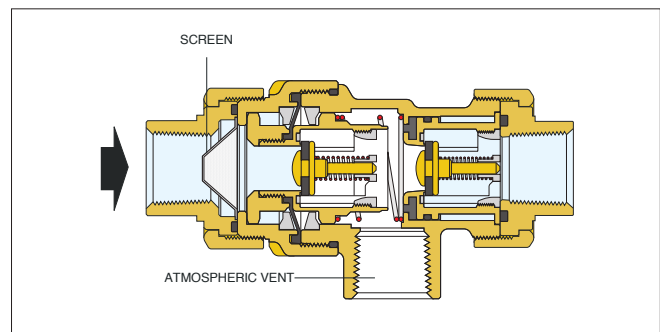
Max. working pressure: 175 psi.

Working temperature range: 32°—250°F.

Emergency backpressure temperature: 250°F.

Certified to: ASSE 1012, CSA B64.3, NSF/ANSI/CAN 372, Low Lead Laws and listed by ICC-ES. Meets codes IPC, IRC & UPC for use in accordance with the U.S. and Canadian plumbing codes.

Construction details



Code	Description	Lbs	USD
573403A	½" NPT female unions	1.7	97.50
573406A	½" press unions	1.7	119.00
573409A	½" sweat unions	1.7	92.70
573493A	½" sweat union inlet, ½" FNPT union outlet	1.7	95.40
573503A	¾" NPT female unions	1.7	102.00
573100A*	Replacement body w/washers	1.5	71.60

*See fitting selection table in Section 8

VACUUM RELIEF VALVE

NEW



Code	Description	Lbs	USD
304040A	½" MNPT	0.8	35.00
304050A	¾" MNPT	0.8	38.00

304 Vacuum Relief Valve (VRV)

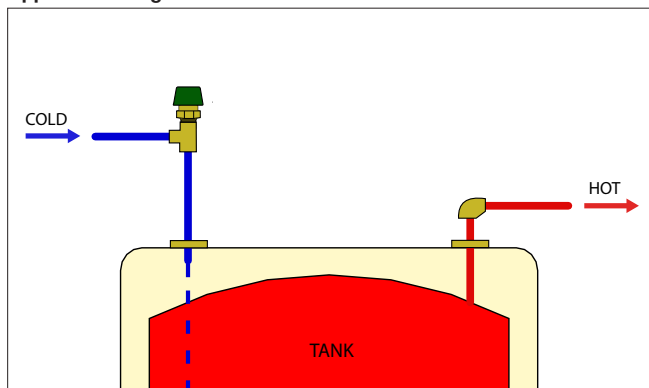
Vacuum relief valves automatically allow air to enter into the piping system to prevent vacuum conditions that could siphon the water from the system and damage water heater/tank equipment. VRVs are suitable for water and low pressure steam service and are ideal for use in water heaters and supply tanks, table top heaters, jacketed steam kettles, unit heaters, low pressure steam systems, and steam coil heaters.

DZR low-lead brass body.

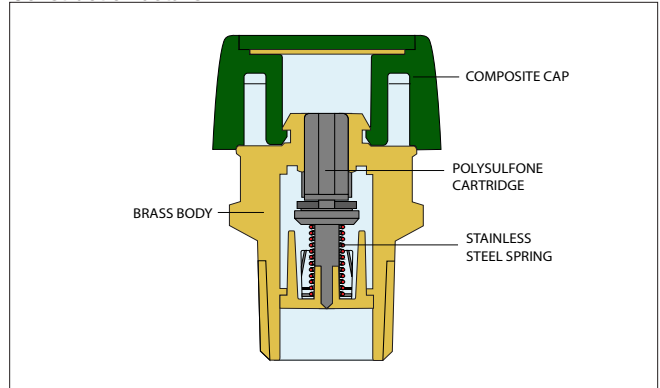
Max working pressure 160 psi.

Operating temperature range 32°—150°F.

Application diagram



Construction details



Approvals: ANSI 21.22-2015, ANSI/NSF/CAN 372 low lead laws and ANSI/NSF/CAN 61 commercial hot rating certified by ICC-ES.

PLUMBVENT™ LOW LEAD AIR VENT



PLUMBVENT™ is the market's **only** low lead air vent designed to automatically remove air from domestic water at high points in plumbing systems. As water within the system warms, air naturally comes out of solution. It can accumulate into air pockets, risking efficient pump performance. PLUMBVENT ensures reliable recirculation flow. **Approvals include compliance with U.S. and Canadian plumbing codes. CALEFFI GUARANTEED.**



P4



Union Y-strainers for plumbing and hydronics
Y-strainer with ball valve for hydronics
Isolation ball valves
Tankless water heater service valve kit
Serviceable low low lead check valves
Automatic air vent for plumbing

Automatic air vent for plumbing

UNION Y-STRAINERS FOR PLUMBING AND HYDRONICS

NEW



128 Y-strainer sweat

Y-strainer with union connections.
PT ports included.
½" FNPT plugged blowdown port.
Max. working pressure: 400 psi.
Temperature range: 32°—212°F.
Max. percentage of glycol: 50%

NEW



128 Y-strainer PEX

Y-strainer with union connections.
PT ports included.
½" FNPT plugged blowdown port.
Max. working pressure: 400 psi.
Temperature range: 32°—212°F.
Max. percentage of glycol: 50%

Code	Description	Lbs	USD
128749A 000	Union strainer ½" sweat, PT ports	1.3	133.00
128759A 000	Union strainer ¾" sweat, PT ports	1.5	136.00
128769A 000	Union strainer 1" sweat, PT ports	1.7	141.00

NEW



128 Y-strainer NPT

Y-strainer with union connections.
PT ports included.
½" FNPT plugged blowdown port.
Max. working pressure: 400 psi.
Temperature range: 32°—212°F.
Max. percentage of glycol: 50%

Code	Description	Lbs	USD
128744A 000	Union strainer ½" PEX crimp, PT ports	1.5	137.00
128754A 000	Union strainer ¾" PEX crimp, PT ports	1.5	141.00
128764A 000	Union strainer 1" PEX crimp, PT ports	1.7	143.00
128742A 000	Union strainer ½" PEX expan., PT ports	1.5	137.00
128752A 000	Union strainer ¾" PEX expan., PT ports	1.5	141.00
128762A 000	Union strainer 1" PEX expan., PT ports	1.7	143.00

Construction details

The 128 Series Y-strainer uses the same brass body as the 128 Series FlowCal balancing valve, with dual unions and PT ports included. The 20 mesh stainless steel screen can be easily removed for cleaning without removing the body from the piping or a ½" purge valve can replace the plug for easy dirt blowdown.

Code	Description	Lbs	USD
128741A 000	Union strainer ½" NPT male, PT ports	1.5	144.00
128751A 000	Union strainer ¾" NPT male, PT ports	1.5	147.00
128761A 000	Union strainer 1" NPT male, PT ports	1.7	149.00

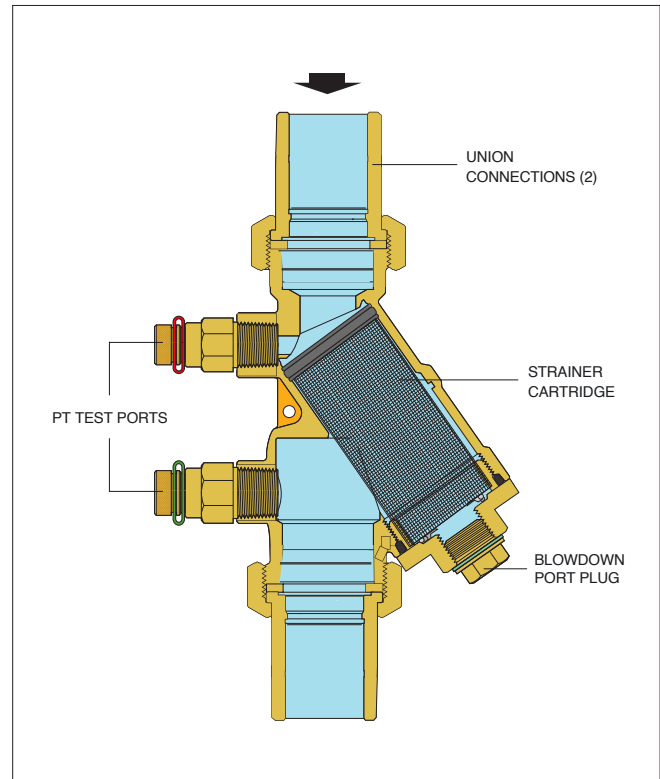
NEW



128 Y-strainer press

Y-strainer with union connections.
PT ports included.
½" FNPT plugged blowdown port.
Max. working pressure: 400 psi.
Temperature range: 32°—212°F.
Max. percentage of glycol: 50%

Code	Description	Lbs	USD
128746A 000	Union strainer ½" press, PT ports	1.5	153.00
128756A 000	Union strainer ¾" press, PT ports	1.5	157.00
128766A 000	Union strainer 1" press, PT ports	1.7	166.00



Y-STRAINER WITH BALL VALVE FOR HYDRONICS



120 Y-strainer

Y-strainer with integral ball valve for hydronic applications only, not for plumbing.
Brass body.

Stainless steel strainer cartridge.

Maximum working pressure: 400 psi (400 WOG).

Working temperature range: 32°—212°F.

Max. percentage glycol: 50%.

Strainer (20 mesh).

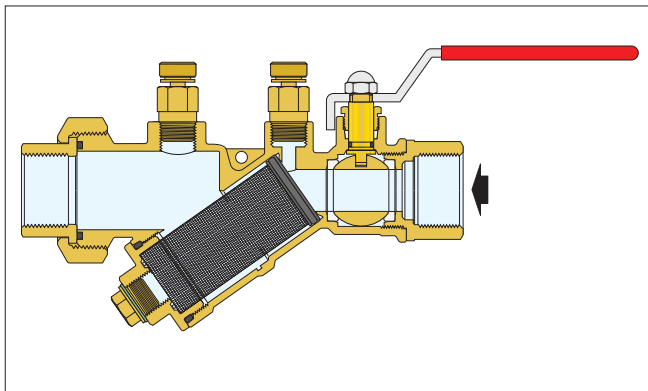
Connections: —body: FNPT union x FNPT, sweat union x sweat.

Pressure and temperature ports: ¼" NPT.

Drain port connection: ¼" for ½" & ¾" or ½" for 1" & 1¼".

Code	Description	Cv	Lbs	USD
120141A 000	½" NPT female	8.0	3.0	129.00
120149A 000	½" sweat	8.0	3.0	123.00
120151A 000	¾" NPT female	8.4	3.0	130.00
120159A 000	¾" sweat	8.4	3.0	124.00
120161A 000	1" NPT female	19	6.0	258.00
120169A 000	1" sweat	19	6.0	245.00
120171A 000	1¼" NPT female	20	6.0	294.00
120179A 000	1¼" sweat	20	6.0	280.00
120341A 000	½" NPT female with PT	8.0	3.5	139.00
120349A 000	½" sweat with PT	8.0	3.5	134.00
120351A 000	¾" NPT female with PT	8.4	3.5	141.00
120359A 000	¾" sweat with PT	8.4	3.5	135.00
120361A 000	1" NPT female with PT	19	6.5	269.00
120369A 000	1" sweat with PT	19	6.5	255.00
120371A 000	1¼" NPT female with PT	20	6.5	304.00
120379A 000	1¼" sweat with PT	20	6.5	290.00

Construction details



DRAIN VALVES AND PT PORTS



Drain valves for field installation in blow-down-port connection of the 120 Series Y-strainer.

Brass body.

With ¾" garden hose connection.

Max. working pressure: 150 psi.

Max. working temperature: 250°F.

Code	Description	Lbs	USD
538202 FD	¼" NPT fits ½"—¾" 120 Series	0.3	15.20
538402 FD	½" NPT fits 1"—1¼" 120 Series	0.3	15.60



Fast-plug pressure/temperature test ports fits FlowCal™ automatic flow balancing valves and the 120 Series Y-strainer. The double-sealing core insures long and trouble free service.

Low Lead brass body.

Nordel Core.

Connections: ¼" NPT male.

Cap thread: ⅜"-24 UNF.

Working temperature range: 0°—275°F.

Max. working pressure: 435 psi.

Pair (2 ports included).

Code	Description	Lbs	USD
100001A	Standard size, 1½" length (pair)	0.5	16.10

ISOLATION BALL VALVES

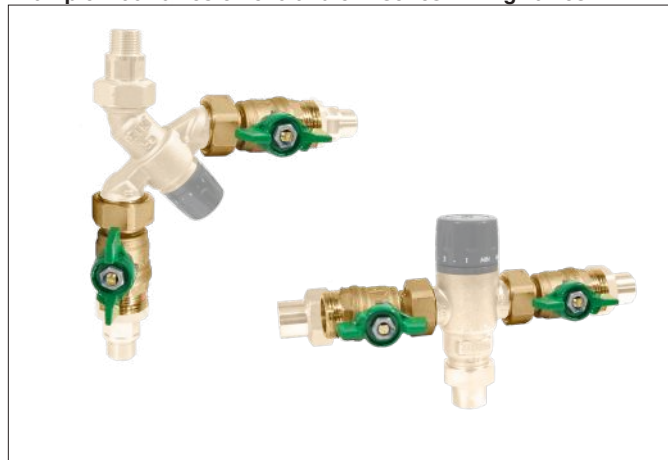


290 Isolation Valve

Isolation ball valve.
Low lead MxF union fits between valve body and tailpiece.

Code	Description	Lbs	USD
290030	1" M x 1" F union ball valve	1.0	47.60
NA10815	Stem extension for 290030	0.2	27.10

Example: 290 valves on 520 and 521 series mixing valves



NA108

NPT full port ball valves with extended operator handle for insulated or bare pipes.
For use with hot or cold water piping in plumbing or hydronic applications.
High strength forged low lead brass.
Blowout-proof stem with dual o-ring seals.
Pressure rating 600 WOG.
Temperature rating -4° — 366°F.

Code	Description	Lbs	USD
NA10824	½" FNPT ball valve low lead	0.4	38.40
NA10825	¾" FNPT ball valve low lead	0.6	47.10
NA10826	1" FNPT ball valve low lead	1.0	61.10
NA10827	1¼" FNPT ball valve low lead	1.6	102.00
NA10828	1½" FNPT ball valve low lead	1.9	129.00
NA10829	2" FNPT ball valve low lead	3.0	314.00

Example: NA108 valves + nipples on 116 series balancing valves



Low lead brass pipe nipples.
For connecting NA108 ball valve to other FNPT valves such as 130, 132, 142, 116 Series.

Code	Description	Lbs	USD
NA10834	½" NPT nipple	0.1	4.80
NA10835	¾" NPT nipple	0.1	7.60
NA10836	1" NPT nipple	0.1	11.90
NA10837	1¼" NPT nipple	0.3	20.60
NA10838	1½" NPT nipple	0.3	21.60
NA10839	2" NPT nipple	0.5	31.40

TANKLESS WATER HEATER SERVICE VALVE KIT

2nd QTR



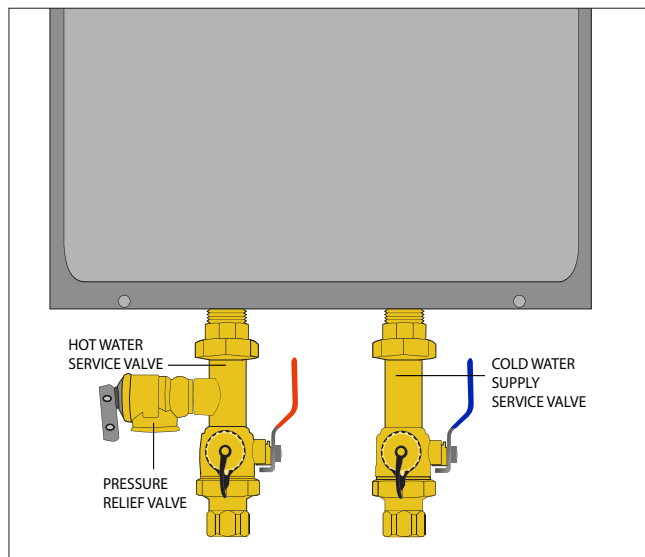
290 Tankless Water Heater Service Valve Kit

Tankless water heater service valves have union connections that attach directly to 3/4" water heater MNPT nipples. Isolation valves and 3/4" garden hose connections allow for flushing and servicing the water heater.

A pressure relief valve, set to 150 psi, is included with each kit. DZR low lead brass body. Max working pressure 400 psi (27 bar). Operating temperature range 32°–210°F (0°–100°C).

Code	Description	Lbs	USD
290503A	3/4" FNPT service valve kit	2.0	156.00

Construction details



The tankless water heater service valve kit is available standalone (shown) or with the 520 Series TankMixer thermostatic mixing valve assembly.

2nd QTR



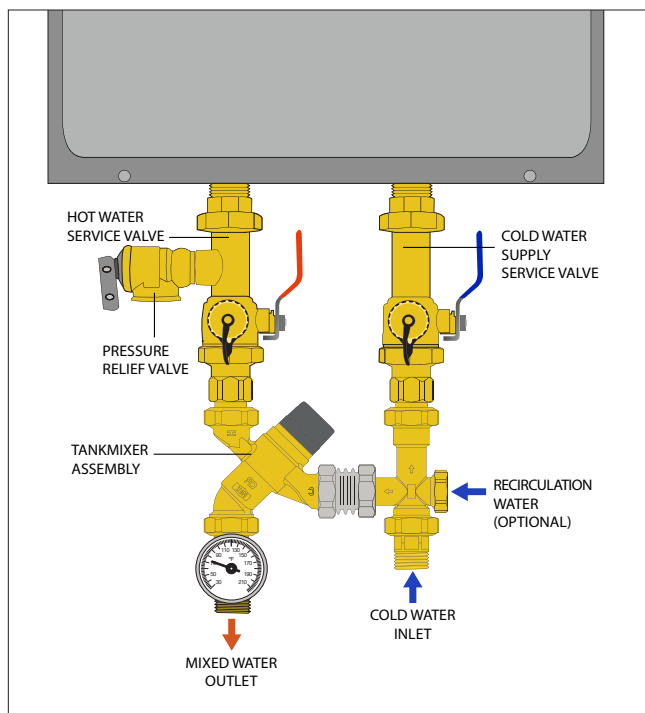
290 Service Valve Kit with 520 TankMixer™

Relief valve and temperature gauge are included with the kit. DZR low lead brass body CW724R.

Max working pressure 400 psi (27 bar). Operating temperature range 32°–210°F (0°–100°C).

Code	Description	Lbs	USD
290516A	3/4" press	5.0	475.00
290519A	3/4" sweat	5.0	456.00
290510A	3/4" FNPT	5.0	467.00
290517A	3/4" PEX crimp	5.0	456.00
290518A	3/4" PEX exp	5.0	456.00

Construction details for TankMixer™ Kit



SERVICEABLE LOW LEAD CHECK VALVES

NA51 sweat



Serviceable low lead check valve.
Max. working pressure: 150 psi (10 bar).
Operating temperature range: 32° — 150°F (0° — 65°C).
Max. temperature: for one hour: 190°F (88°C).
Opening pressure differential: 0.25 psi (½" through 1¼"); 0.50 psi (1½", 2").

Code	Description	Cv	Lbs	USD
NA51249	½" sweat	17	0.4	79.00
NA51259	¾" sweat	17	0.4	86.70
NA51369	1" sweat	30	0.9	123.00
NA51379	1¼" sweat	30	1.1	138.00
NA51489	1½" sweat	75	2.4	344.00
NA51499	2" sweat	75	2.4	366.00

NA51 MNPT



Serviceable low lead check valve.
Max. working pressure: 150 psi (10 bar).
Operating temperature range: 32° — 150°F (0° — 65°C).
Max. temperature: for one hour: 190°F (88°C).
Opening pressure differential: 0.25 psi (½" through 1¼"); 0.50 psi (1½", 2").

Code	Description	Cv	Lbs	USD
NA51240	½" MNPT	17	0.4	94.30
NA51250	¾" MNPT	17	0.6	99.50
NA51360	1" MNPT	30	1.1	130.00
NA51370	1¼" MNPT	30	1.3	143.00
NA51480	1½" MNPT	75	2.6	366.00
NA51490	2" MNPT	75	2.6	388.00

NA51 FNPT



Serviceable low lead check valve.
Max. working pressure: 150 psi (10 bar).
Operating temperature range: 32° — 150°F (0° — 65°C).
Max. temperature: for one hour: 190°F (88°C).
Opening pressure differential: 0.25 psi (½" through 1¼"); 0.50 psi (1½", 2").

Code	Description	Cv	Lbs	USD
NA51243	½" FNPT	17	0.4	107.00
NA51253	¾" FNPT	17	0.6	114.00
NA51363	1" FNPT	30	1.1	138.00
NA51373	1¼" FNPT	30	1.3	150.00
NA51493	2" FNPT	75	2.6	403.00

NA51 press



Serviceable low lead check valves
Max. working pressure: 150 psi (10 bar).
Operating temperature range: 32° — 150°F (0° — 65°C).
Max. temperature: for one hour: 190°F (88°C).
Opening pressure differential: 0.25 psi (½" through 1¼"); 0.50 psi (1½", 2").

Code	Description	Cv	Lbs	USD
NA51246	½" press	17	0.4	114.00
NA51256	¾" press	17	0.6	123.00
NA51366	1" press	30	1.1	178.00
NA51376	1-¼" press	30	1.3	209.00
NA51486	1½" press	75	2.6	451.00
NA51496	2" press	75	2.6	495.00

NA51 PEX



Serviceable low lead check valve.
Max. working pressure: 150 psi (10 bar).
Operating temperature range: 32° — 150°F (0° — 65°C).
Max. temperature: for one hour: 190°F (88°C).
Opening pressure differential: 0.25 psi (½" through 1¼"); 0.50 psi (1½", 2").
PEX crimp: ASTM F1807
PEX expansion: ASTM F1960

Code	Description	Cv	Lbs	USD
NA51247	½" PEX crimp	17	0.4	86.70
NA51257	¾" PEX crimp	17	0.6	94.30
NA51248	½" PEX expansion	17	0.4	86.70
NA51258	¾" PEX expansion	17	0.6	94.30

NA51 body



Serviceable low lead check valve without fittings.
Max. working pressure: 150 psi (10 bar).
Operating temperature range: 32° — 150°F (0° — 65°C).
Max. temperature: for one hour: 190°F (88°C).
Opening pressure differential: 0.25 psi (½" through 1¼"); 0.50 psi (1½", 2").

Code	Description	Cv	Lbs	USD
NA51200	½", ¾" body, small	17	0.2	56.00
NA51300	1", 1¼" body, medium	30	0.5	71.40
NA51400	1½", 2" body, large	75	1.8	186.00

Replacement checks.



Code	Description	Cv	Lbs	USD
NA10117	Fits ½", ¾" (small body)	17	0.1	10.30
NA10370	Fits 1", 1¼" (medium body)	30	0.1	10.30
NA10371	Fits 1½", 2" (large body)	75	0.2	17.80

AUTOMATIC AIR VENT FOR PLUMBING



NA5026
PLUMBVENT™

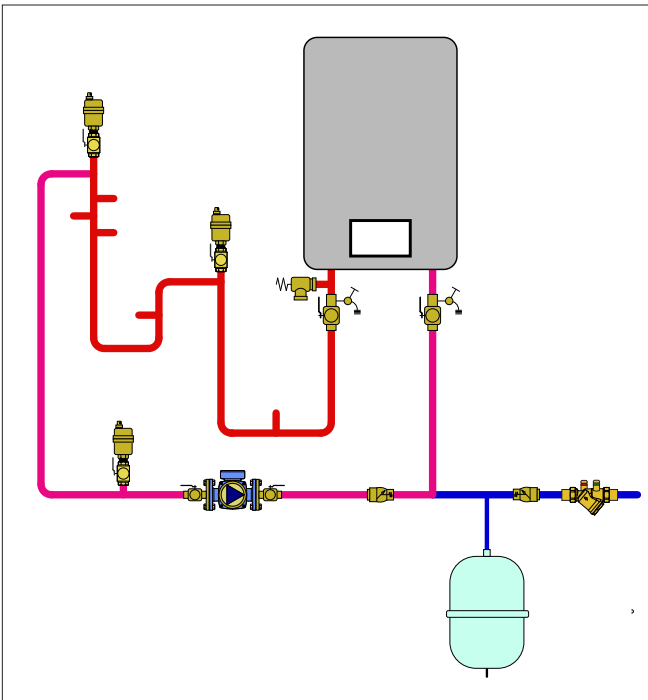
Automatic air vent with low lead brass body.
Compatible with plumbing systems.
Hygroscopic cap (anti-drip).
Max. working pressure: 150 psi.
Max. discharge pressure: 90 psi.
Max. discharge rate: 1.75 SCFM.
Max working temperature: 240°F.
Approval: NSF/ANSI/CAN 372 low lead.

Function

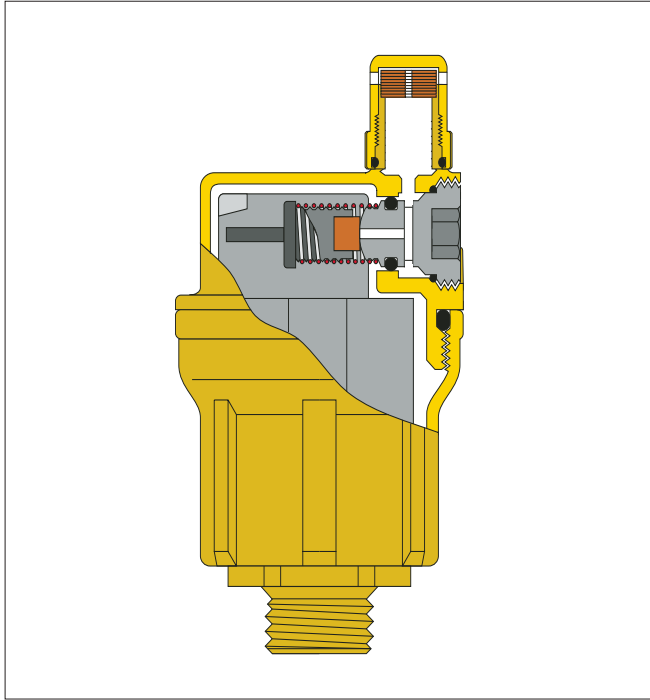
Float type automatic air vent designed to vent air from water at high points in plumbing system piping. Example applications include risers, domestic hot water storage tanks and recirculation system pump inlets. The automatic air vent is installed in the vertical position in parts of the system where air can accumulate and cause circulator air-lock or reduced efficiency. It is supplied complete with a safety hygroscopic cap that automatically closes the air discharge in case of contact with water.

Code	Description	Lbs	USD
NA502640A	1/2" MNPT	0.6	50.00

Application Diagram



Construction details



Complies with NSF/ANSI/CAN 372, Drinking Water System Components-Lead Content Reduction of Lead in Drinking Water Act, California Health and Safety Code 116875 S.3874, Reduction in Drinking Water Act, Vermont Act 193 - The Lead in Plumbing Supplies Law and Maryland's Lead Free Law HB.372, as certified by ICC-ES, file PMG-1360.

FAST CONNECTIONS EASY & VERSATILE

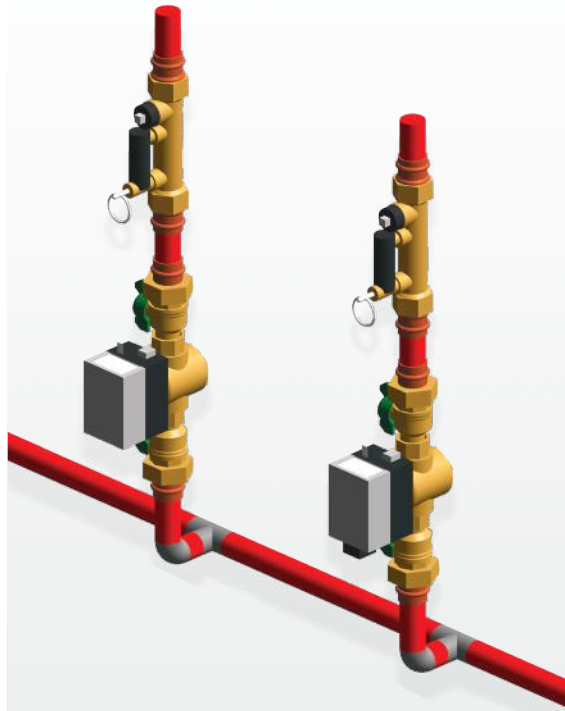
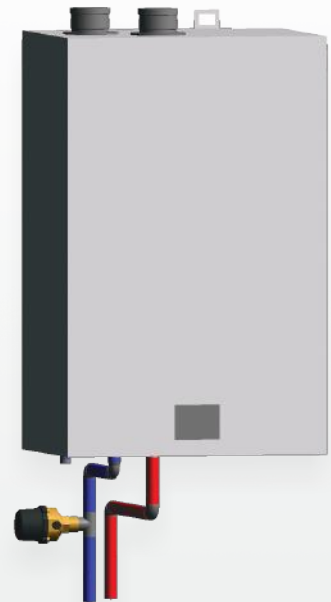


Fast, leak-proof and no-flame Press and PEX connections are becoming the preferred standard by many professionals. Caleffi offers these convenient connections on our most popular products. Dual union valve bodies allow for flexible **mixing or matching of inlet and outlet fitting choices** to save transition adapters. **CALEFFI GUARANTEED.**



FITTINGS AND MISCELLANEOUS COMPONENTS

P5



BIM
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PRODUCTS INCLUDED IN SECTION

Fittings configuration table
Small mixing valves, zone valves, others with 1" union fittings
PresCal™ pressure reducing valve fittings
Press fitting kits
Mixing valve fittings
AutoFill™ and backflow preventer fittings
Hydro separator fittings
Fittings with threads
Differential pressure bypass
Uni-Switch™ Universal flow switch
Miscellaneous components

FITTING CONFIGURATION TABLE

Product Series	Code	Description	Nut code	Tailpiece code	Washer code	USD
535H PresCal™ (½") 533H PresCal™ (½") 553 AutoFill™	NA20543	½" FNPT, ¾" nut, washer	incl. w/tail	F49644	incl. w/tail	20.90
	NA20540	½" MNPT, ¾" nut, washer	F41186	F31868	R0001458	17.30
	NA20549	½" sweat, ¾" nut, washer	incl. w/tail	F49655	incl. w/tail	15.10
	NA20546	½" press, ¾" nut, washer	F41186	NA10809	R0001458	17.70
127 FlowCal™	NA20643	½" FNPT, 1" nut, washer	F0000698	NA10569	R20011	20.90
	NA20640	½" MNPT, 1" nut, washer	F61008	R31981	R20011	18.00
	NA20640C	½" MNPT, 1" nut, washer, check	F61008	59893A	R20011	28.10
	NA20649	½" sweat, 1" nut, washer	F61008	NA10002	R20011	14.90
127 FlowCal+™	NA20649C	½" sweat, 1" nut, washer, check	F61008	NA10164	R20011	25.10
	NA20646	½" press, 1" nut, washer	F61008	NA10403	R20011	19.30
132 QuickSetter+™	NA20646C	½" press, 1" nut, washer, check	F61008	NA10869C	R20011	20.70
	NA20647	½" PEX crimp, 1" nut, washer	F61008	F0000492	R20011	14.90
520 TankMixer™	NA20647C	½" PEX crimp, 1" nut, washer, check	F61008	NA10484	R20011	25.10
	NA20648	½" PEX expansion, 1" nut, washer	F61008	F0001007	R20011	14.90
520 AngleMix™	NA20648C	½" PEX expansion, 1" nut, washer, check	F61008	NA10634	R20011	25.10
521 MixCal™	NA20653	¾" FNPT, 1" nut, washer	incl. w/tail	F49645	incl. w/tail	23.80
	NA20650	¾" MNPT, 1" nut, washer	F61008	31901A	R20011	20.90
5213 TMV (req. inlet port check)	NA20650C	¾" MNPT, 1" nut, washer, check	F61008	59840A	R20011	35.90
	NA20659	¾" sweat, 1" nut, washer	F61008	NA10003	R20011	17.90
5350 AutoFill™	NA20659C	¾" sweat, 1" nut, washer, check	F61008	NA10165	R20011	32.90
	NA20656	¾" press, 1" nut, washer	incl. w/tail	NA16265	R20011	21.00
535H PresCal™ (¾")	NA20656C	¾" press, 1" nut, washer, check	incl. w/tail	NA16265LC	R20011	46.70
	NA20657	¾" PEX crimp, 1" nut, washer	F61008	F0000520	R20011	17.90
5517 DISCAL®	NA20657C	¾" PEX crimp, 1" nut, washer, check	F61008	NA10485	R20011	32.90
	NA20658	¾" PEX expansion, 1" nut, washer	F61008	F0001008	R20011	17.90
6000 LEGIOMIX (¾")	NA20658C	¾" PEX expansion, 1" nut, washer, check	F61008	NA10635	R20011	32.90
	NA20660	1" MNPT, 1" nut, washer	incl. w/tail	59817A	R20011	34.60
644 Ball Valve	NA20660C	1" MNPT, 1" nut, washer, check	incl. w/tail	59894A	R20011	49.60
	NA20669	1" sweat, 1" nut, washer	incl. w/tail	59834A	R20011	31.20
676 Zone Valve	NA20669C	1" sweat, 1" nut, washer, check	incl. w/tail	59906A	R20011	46.20
	NA20666	1" press, 1" nut, washer	incl. w/tail	NA16266	R20011	36.40
Z2, Z3 Zone Valve	NA20666C	1" press, 1" nut, washer, check	incl. w/tail	NA16266LC	R20011	71.40
	NA20667	1" PEX crimp, 1" nut, washer	F61008	F0000521	R20011	31.20
NA512xx Serviceable check	NA20667C	1" PEX crimp, 1" nut, washer, check	F61008	NA10486	R20011	46.20
	NA20668	1" PEX expansion, 1" nut, washer	F000698	F0001009	R20011	31.20
V40 Flow Meter	NA20668C	1" PEX expansion, 1" nut, washer, check	F000698	NA10636	R20011	46.20
535H PresCal™ (1") 520 AngleMix™ (1")	NA20760	1" MNPT, 1¼" nut, washer	R31495	NA10116	R0001454	30.30
	NA20763	1" FNPT, 1¼" nut, washer	incl. w/tail	F49646	incl. w/tail	33.30
	NA20767	1" PEX crimp, 1¼" nut, washer	R31495	NA10496	R0001454	31.90
	NA20768	1" PEX expansion, 1¼" nut, washer	R31495	NA10556	R0001454	31.20
	NA20766	1" press, 1¼" nut, washer	R11222	NA10747	R0001454	40.20
535H PresCal™ (1¼") NA513xx Serviceable check	NA20769	1" sweat, 1¼" nut, washer	incl. w/tail	F49657	incl. w/tail	24.60
	NA20873	1¼" FNPT, 1½" nut, washer	incl. w/tail	F49647	incl. w/tail	60.60
	NA20879	1¼" sweat, 1½" nut, washer	R31589	41787 CST	R0001457	54.60
535H PresCal™ (1½")	NA20876	1¼" press, 1½" nut, washer	R11221	NA10707	R0001457	80.00
	NA20983	1½" FNPT, 2" nut, washer	incl. w/tail	F0000493	incl. w/tail	92.00
	NA20989	1½" sweat, 2" nut, washer	incl. w/tail	F0000494	incl. w/tail	76.50
	NA20986	1½" press, 2" nut, washer	incl. w/tail	NA10715	R0001459	167.00

FITTING CONFIGURATION TABLE

Product Series	Code	Description	Nut code	Tailpiece code	Washer code	USD
535H PresCal™ (2") NA514xx Serviceable check	NA21193	2" FNPT, 2½" nut, washer	incl. w/tail	F0000495	R0001460	128.00
	NA21199	2" sweat, 2½" nut, washer	incl. w/tail	F0000496	incl. w/tail	139.00
	NA21196	2" press, 2½" nut, washer	incl. w/tail	NA10709	R0001460	233.00
548, 5495 Seps (1")	NA20863	1" FNPT, 1½" nut, washer	R0001452	31553 FD	R50005	37.30
	NA20869	1" sweat, 1½" nut, washer	R0001452	31554 FD	R50005	37.70
	NA20866	1" press 1½" nut, washer	R0001452	NA10406	R50005	61.90
548, 5495 Seps (1¼")	NA20973	1¼" FNPT, 2" nut, washer	R53003	31401 FD	R50008	79.40
	NA20979	1¼" sweat, 2" nut, washer	R53003	31403 FD	R50008	106.00
	NA20976	1¼" press 2" nut, washer	R53003	NA10407	R50008	109.00
548, 5495 Seps (1½") 5461 DISCALDIRTMAG™ (1½")	NA21083	1½" FNPT, 2¼" nut, washer	R53004	R41441	R50047	86.50
	NA21089	1½" sweat, 2¼" nut, washer	R53004	41882A	R50047	110.00
	NA21086	1½" press 2¼" nut, washer	R53004	NA10408	R50047	145.00
548, 5495 Seps (2") 5461 DISCALDIRTMAG™ (2")	NA21293	2" FNPT, 2¾" nut, washer	R53005	31426 FD	R50048	133.00
	NA21299	2" sweat, 2¾" nut, washer	R53005	31428 FD	R50048	157.00
	NA21296	2" press 2¾" nut, washer	R53005	NA10409	R50048	214.00
5231 MixCal+™ (1") 6000 LEGIOMIX® (1")	NA20860	1" MNPT 1½" nut, washer	R31589	NA10009	R0001457	41.50
	NA20869	1" sweat, 1½" nut, washer	R31589	31554 FD	R0001457	37.70
	NA20866	1" press, 1-½" nut, washer	R31589	NA10706	R0001457	61.90
5231 MixCal+™ (1¼") 6000 LEGIOMIX® (1¼")	NA20870	1¼" MNPT 1½" nut, washer	R31589	R41660	R0001457	72.90
	NA20879	1¼" sweat, 1½" nut, washer	R31589	41787 CST	R0001457	54.60
	NA20876	1-¼" press, 1-½" nut, washer	R11221	NA10707	R0001457	80.00
5231 MixCal+™ (1½") 6000 LEGIOMIX® (1½")	NA21180	1½" MNPT 2½" nut, washer	R51838	41371A	R0001460	123.00
	NA21189	1½" sweat 2½" nut, washer	R51838	41788 CST	R0001460	107.00
	NA21186	1½" press, 2-½" nut, washer	R51838	NA10708	R0001460	161.00
5231 MixCal+™ (2") 6000 LEGIOMIX® (2")	NA21190	2" MNPT 2½" nut, washer	R51838	41372A	R0001460	153.00
	NA21199	2" sweat 2½" nut, washer	R51838	41789 CST	R0001460	139.00
	NA21196	2" press, 2-½" nut, washer	incl. w/tail	NA10709	R0001460	233.00

SMALL MIXING VALVES, ZONE VALVES, OTHERS WITH 1" UNION FITTINGS



Tail piece with check valve.
Low lead brass.

Code	Description	Lbs	USD
59893A	½" NPT male fits 1" nut	0.2	21.80
59840A	¾" NPT male fits 1" nut	0.3	29.80



Tail piece without check valve.
Low lead brass.

Code	Description	Lbs	USD
R31981	½" NPT male fits 1" nut	0.3	11.60
31901A	¾" NPT male fits 1" nut	0.4	15.10



Tail piece.
Low lead brass. Requires sealing washer
R20011, not included.

Code	Description	Lbs	USD
59817A	1" NPT male with 1" nut	0.4	32.90
59894A	1" NPT male with 1" nut w/check valve	0.5	47.80



Tail piece with check valve.
Low lead brass.

Code	Description	Lbs	USD
59904A	½" sweat fits 1" nut	0.2	19.00
59905A	¾" sweat for 1" nut	0.3	26.60



Copper press tail piece with 1" brass union
nut. Low lead. Requires sealing washer, not
included.

Code	Description	Lbs	USD
NA16264	½" press with 1" union nut	0.3	17.60
NA16265	¾" press with 1" union nut	0.4	19.40
NA16266	1" press with 1" union nut	0.5	34.50



Long copper press tail piece with 1" brass
union slip nut. Low lead. Requires sealing
washer, not included.

Code	Description	Lbs	USD
NA10864L	½" press with 1" union nut NEW	0.3	17.10
NA10864LC	½" press with 1" union nut/check valve NEW	0.3	23.00
NA16265L	¾" long press with 1" union slip nut	0.3	44.40
NA16265LC	¾" long press with 1" union nut/check valve	0.3	56.20
NA16266L	1" long press with 1" union slip nut	0.3	66.30
NA16266LC	1" long press with 1" union nut/check valve	0.3	68.90



Washer fits 1" union thread.

Code	Description	Lbs	USD
R20011	1" union washer	0.1	1.60



Tail piece.
Low lead brass.

Code	Description	Lbs	USD
NA10002	½" sweat fits 1" nut	0.2	8.40
NA10003	¾" sweat fits 1" nut	0.3	11.60



Tail piece.
Low lead brass. Requires sealing washer
R20011, not included.

Code	Description	Lbs	USD
59834A	1" sweat with 1" nut	0.4	29.70
59906A	1" sweat with 1" nut w/check valve	0.5	44.70



Tail piece with high temperature check valve.
Low lead brass.

Code	Description	Lbs	USD
NA10164	½" sweat fits 1" nut	0.2	26.30
NA10165	¾" sweat fits 1" nut	0.3	30.70



Tail piece with high temperature check valve.
Low lead brass. Requires sealing washer
R20011, not included.

Code	Description	Lbs	USD
NA10166	1" sweat with 1" nut w/check valve	0.4	50.30



Copper press low lead tail piece with check
valve, requires F0000698 1" slip nut.

Code	Description	Lbs	USD
NA10419C	¾" press long fits 1" slip nut w/check	0.3	45.00



Copper press low lead tail piece, requires
F0000698 1" slip nut.

Code	Description	Lbs	USD
NA10403	½" press fits 1" nut	0.1	22.90
NA10864	½" press long fits 1" nut NEW	0.1	21.70
NA10744	¾" press fits 1" slip nut NEW	0.1	16.50
NA10419	¾" press long fits 1" slip nut	0.3	38.40
NA10404	1" press fits 1" slip nut	0.4	34.60
NA10786	1" press long fits 1" slip nut	0.5	58.40

SMALL MIXING VALVES, ZONE VALVES, OTHERS WITH 1" UNION FITTINGS



Union nut fits 1" union thread.

Code	Description	Lbs	USD
F61008	1" brass nut	0.2	4.60
F0000698	1" brass slip nut	0.2	6.40



PEX crimp (ASTM F1807) tailpiece for 1" union nut, requires sealing washer and nut, not included.

Code	Description	Lbs	USD
F0000492	1/2" PEX for 1" union nut	0.1	8.40
F0000520	3/4" PEX for 1" union nut	0.1	11.60
F0000521	1" PEX for 1" union nut	0.1	24.90



PEX crimp (ASTM F1807) tailpiece for 1" union nut with check valve, requires sealing washer and nut, not included.

Code	Description	Lbs	USD
NA10484	1/2" PEX for 1" union nut	0.1	19.00
NA10485	3/4" PEX for 1" union nut	0.1	26.60
NA10486	1" PEX for 1" union nut	0.1	39.90



Compression fitting.

Code	Description	Lbs	USD
F0000718	3/8" compression tailpiece for 1" nut	0.1	17.10



PEX expansion (ASTM F1960) tailpiece for 1" union nut, requires sealing washer and nut, not included.

Code	Description	Lbs	USD
F0001007	1/2" PEX for 1" union nut	0.1	8.40
F0001008	3/4" PEX for 1" union nut	0.1	11.60
F0001009	1" PEX for 1" union nut	0.1	24.90



PEX expansion (ASTM F1960) tailpiece for 1" union nut with check valve, requires sealing washer and nut, not included.

Code	Description	Lbs	USD
NA10634	1/2" PEX for 1" union nut	0.1	19.00
NA10635	3/4" PEX for 1" union nut	0.1	26.60
NA10636	1" PEX for 1" union nut	0.1	39.90

5231 AND 6000 SERIES MIXING VALVE FITTINGS



press tail piece.
Low lead brass.

Code	Description	Lbs	USD
NA10809	1/2" press tailpiece for 3/4" nut	0.2	16.50
NA10744	3/4" press tailpiece for 1" nut	0.2	16.50
NA10747	1" press tailpiece for 1 1/4" slip nut	0.4	22.80
NA10707	1 1/4" press tailpiece for 1 1/2" nut	0.4	84.20
NA10708	1 1/2" press tailpiece with 2" nut	0.5	121.00
NA10709	2" press tailpiece with 2 1/2" nut	0.5	214.00



Union nut.

Code	Description	Lbs	USD
F61008	1" brass nut	0.2	4.60
F0000698*	1" brass slip nut	0.2	6.40
R31589**	1 1/2" union nut	0.2	15.60
R11221	1 1/2" slip union nut for 1-1/4" press	0.2	15.20
R51838***	2 1/2" union nut	0.3	38.10

*Fits 3/4" valves
** Fits 1" and 1 1/4" valves
*** Fits 1 1/2" and 2" valves



Sweat tail piece.
Low lead brass.

Code	Description	Lbs	USD
31554 FD	1" sweat	0.3	36.50
41787 CST	1 1/4" sweat	0.3	35.80
41788 CST	1 1/2" sweat	0.4	56.80
41789 CST	2" sweat	0.5	73.90



NPT male tailpiece.
Low lead brass.

Code	Description	Lbs	USD
NA10009	1" NPT male	0.3	45.80
R41660	1 1/4" NPT male	0.3	52.40
41371A	1 1/2" NPT male	0.4	59.10
41372A	2" NPT male	0.5	76.50



Washer.

Code	Description	Lbs	USD
R0001462*	1" union washer	0.1	1.60
R0001457**	1 1/2" union washer	0.1	3.60
R0001460***	2 1/2" union washer	0.1	17.00

* Fits 3/4" valves
** Fits 1" and 1 1/4" valves
*** Fits 1 1/2" and 2" valves

PRESCAL™ PRESSURE REDUCING VALVE FITTINGS



NPT female tailpieces with union nut and washer.

Code	Description	Lbs	USD
F49644	½" NPT female tailpiece with ¾" union nut	0.4	20.30
F49645	¾" NPT female tailpiece with 1" union nut	0.5	23.00
F49646	1" NPT female tailpiece with 1¼" union nut	0.6	30.60
F49647	1¼" NPT female tailpiece with 1½" union nut	0.7	51.00
F0000493	1½" NPT female tailpiece with 2" union nut	0.9	91.70
F0000495	2" NPT female tailpiece with 2½" union nut	1.0	109.00



NPT male tailpieces for union nut.

Code	Description	Lbs	USD
F31868	½" NPT male tailpiece for ¾" union nut	0.1	12.20
31901A	¾" NPT male tailpiece for 1" union nut	0.1	15.10



Sweat tailpieces.

Code	Description	Lbs	USD
NA10001	½" sweat tailpiece for ¾" union nut	0.1	10.20
NA10003	¾" sweat tailpiece for 1" union nut	0.2	11.60
F49657*	1" sweat tailpiece with 1¼" nut	0.4	20.30
41787 CST	1¼" sweat tailpiece for 1½" union nut	0.3	35.80
F0000494*	1½" sweat tailpiece with 2" union nut	0.7	68.90
F0000496*	2" sweat tailpiece with 2½" union nut	0.8	94.30

*With washer



press tailpieces.

Code	Description	Lbs	USD
NA16265	¾" press with 1" union nut	0.2	19.40
NA10497	1" press tailpiece with 1¼" union nut	0.4	38.20
NA10707	1¼" press tailpiece for 1½" union nut	0.6	84.20
NA10715	1½" press tailpiece with 2" union nut	0.8	167.00
NA10709	2" press tailpiece with 2½" union nut	0.9	214.00
NA10744	¾" press tailpiece for 1" nut 	0.2	16.50
NA10747	1" press tailpiece for 1¼" slip nut 	0.4	22.80
NA10809	½" press tailpiece for ¾" nut 	0.2	16.50



PEX expansion tailpieces (ASTM F1960) for union nut.

Code	Description	Lbs	USD
F0001008	¾" PEX expansion tailpiece for 1" union nut	0.1	11.60
NA10556	1" PEX expansion tailpiece for 1¼" union nut	0.2	15.20



PEX crimp tailpieces (ASTM F1807) for union nut.

Code	Description	Lbs	USD
F0000520	¾" PEX crimp tailpiece for 1" union nut	0.1	11.60
NA10496	1" PEX crimp tailpiece for 1¼" union nut	0.2	27.10



Union nut.

Code	Description	Lbs	USD
F41186	¾" union nut for ½" 535H	0.1	3.80
F61008	1" union nut for ¾" 535H	0.2	4.60
R0000915	1" slip union nut for ¾" 535H	0.2	4.60
R31495	1 ¼" union nut for 1" 535H	0.3	7.60
R11222	1 ¼" slip nut for 1" 535H	0.3	7.60
R31589	1 ½" union nut for 1-¼" 535H	0.4	15.60
R53003	2" union nut for 1-½" 535H	0.4	31.00
R51838	2 ½" union nut for 2" 535H	0.5	38.10



Union washers.

Code	Description	Lbs	USD
R0001458	¾" union washer for ½" 535H	0.1	1.50
R20011	1" union washer for ¾" 535H	0.1	1.60
R0001454	1-¼" union washer 1" 535H	0.1	2.50
R0001457	1½" union washer for 1¼" 535H	0.1	3.60
R0001459	2" union washer for 1½" 535H	0.1	6.90
R0001460	2½" union washer for 2" 535H	0.1	17.00

AUTOFILL™ FITTINGS



AutoFill™ union nut.

Code	Description	Lbs	USD
F41186	¾" union nut	0.1	3.00



AutoFill™ tail piece.

Code	Description	Lbs	USD
NA10001	½" sweat	0.3	9.40



AutoFill™ tail piece.

Code	Description	Lbs	USD
F31868	½" NPT male	0.1	11.20



AutoFill™ washer.

Code	Description	Lbs	USD
R0001458	¾" union washer	0.1	1.40

BACKFLOW PREVENTER FITTINGS



Tail piece with screen fits 573 backflow preventer.

Code	Description	Lbs	USD
R0000892	½" NPT female, outlet	0.1	15.20
R0001393	½" NPT female, inlet	NEW 0.1	7.30



Tail piece fits 573 backflow preventer.

Code	Description	Lbs	USD
41380A	½" sweat	0.1	14.50



Washer union fits 573 backflow preventer.

Code	Description	Lbs	USD
R0001622	Union washer	0.1	3.50

SEPARATOR FITTINGS



Tail piece for steel 548, 5495, 5461.

Code	Description	Lbs	USD
31553 FD	1" NPT female, fits 54...6A	0.3	18.10
31401 FD	1¼" NPT female, fits 54...7A	0.3	39.20
R41441	1½" NPT female, fits 54...8A	0.3	39.60
31426 FD	2" NPT female, fits 54...9A	0.4	77.50



Tail piece for steel 548, 5495, 5461.

Code	Description	Lbs	USD
31554 FD	1" sweat, fits 54...6A	0.3	36.50
31403 FD	1¼" sweat, fits 54...7A	0.3	67.80
41882A	1½" sweat, fits 54...8A	0.3	64.20
31428 FD	2" sweat, fits 54...9A	0.4	105.00



Press tail piece for steel 548, 5495, 5461.

Code	Description	Lbs	USD
NA10707	1¼" press tailpiece for 1½" nut	0.4	1.40
NA10708	1½" press tailpiece with 2" nut	0.5	1.40
NA10709	2" press tailpiece with 2½" nut	0.5	1.40



Union nut for steel 548, 5495, 5461.

Code	Description	Lbs	USD
R0001452	fits 54...6A	0.4	15.10
R53003	fits 54...7A	0.4	31.00
R53004	fits 54...8A	0.4	31.00
R53005	fits 54...9A	0.4	35.50



Union washer for steel 548, 5495, 5461.

Code	Description	Lbs	USD
R50005	fits 54...6A	0.2	3.60
R50008	fits 54...7A	0.2	7.20
R50047	fits 54...8A	0.2	14.50
R50048	fits 54...9A	0.2	17.60

FITTINGS WITH ¾" THREADS



Union nut.

Code	Description	Lbs	USD
F41186	¾" union nut	0.1	3.00

FITTINGS WITH 1" THREADS



Double nipple.

Code	Description	Lbs	USD
NA12173	1" NPT x 1" NPT	0.4	27.40



Sweat adapter.

Code	Description	Lbs	USD
NA10062	1" sweat adaptor w/ 1" male thread	0.1	23.80



Union nut fits 1" union thread.

Code	Description	Lbs	USD
F61008	1" brass nut	0.2	4.60
F0000698	1" brass slip nut	0.2	6.40



Nipple.

Code	Description	Lbs	USD
NA12162	¾" male w/ O-ring x 1" male thread	0.2	25.30



Nipple.

Code	Description	Lbs	USD
NA10064	1" NPT w/ 1" male thread	0.2	24.70

FITTINGS WITH 1¼" THREADS



Sweat adapter.

Code	Description	Lbs	USD
NA10119	1" sweat adapter x 1¼" union thread	0.4	30.20



Bushing.

Code	Description	Lbs	USD
NA10087	1" female x 1¼" male thread bushing	0.4	22.10



Bushing.

Code	Description	Lbs	USD
61215A	1" NPT F x 1¼" M thread bushing	0.8	22.00



Nipple.

Code	Description	Lbs	USD
R31706	1" male x 1¼" male nipple	0.3	27.40



Union nut.

Code	Description	Lbs	USD
R31495	1¼" union nut	0.1	7.60



Washer.

Code	Description	Lbs	USD
R0001454	1¼" washer	0.1	2.50

DIFFERENTIAL PRESSURE BYPASS



519

Differential pressure by-pass valve.
Adjustable from 2 to 10 psid.
Brass body.
Max. working pressure: 150 psi.
Working temperature range: 32° – 230°F.
¾" flow up to 9 gpm.
1" flow up to 40 gpm.
1¼" flow up to 45 gpm.

Code	Description	Lbs	USD
519502A	¾" NPT male union	1.0	134.00
519566A	¾" press union	1.0	152.00
519599A	¾" sweat union	1.0	133.00
519600A	1" FNPT in, 1" NPT male union out	1.4	210.00
519609A	1" FNPT in, 1" sweat union out	1.4	210.00
519700A	1¼" FNPT in, 1¼" NPT male union out	1.5	252.00
519709A	1¼" FNPT in, 1¼" sweat union out	1.5	252.00

UNIVERSAL FLOW SWITCH



626

Uni-Switch™

Universal flow switch.
Suitable for 1" to 8" pipe size.
Working pressure: 150 psi.
Working temperature range: -20° – 250°F.
Minimum flow: 5.7 gpm.
Switch contacts: NO or NC.
Switch rating: 15 A.
CE, cUL, NEMA Type 3, IP 54.



Code	Description	Lbs	USD
626600A	1" NPT male thread	2.3	263.00
626009	Replacement paddle assembly*	0.1	24.60

* stainless steel

MISCELLANEOUS COMPONENTS



NA101

Ball valve. Brass body.
Max. working pressure: 600 psi.
Max. working temperature: 365°F.

Code	Description	Lbs	USD
NA10167	½" sweat x ½" sweat	0.5	10.30



NA510

NBR, POM check valve.
Max. percentage of glycol: 50%.
Max. working pressure: 150 psi.
Temperature range: 32° – 150°F (190°F for max. 1 hour).
Opening pressure differential: 0.25 psi (½" through 1¼"); 0.50 psi (1½", 2").

Code	Description	Cv	Lbs	USD
NA51069	1" sweat union	17	1.0	76.50



538

Drain valve. Brass body.
¾" garden hose thread with cap.
Max. working pressure: 150 psi.
Max. working temperature: 250°F.

Code	Description	Lbs	USD
538202 FD	¼" NPT male x ¾" GHT	0.3	15.20
538402 FD	½" NPT male x ¾" GHT	0.3	15.60



NA503

Tridicator dual pressure / temperature gauge for boilers. Dial size: 3 1/8".
Pressure range: 0—75 psi.
Temperature range: 60°—320°F.
¼" NPT rear probe.
For direct fluid stream submersion.

Code	Description	Lbs	USD
NA503040	¼" NPT male center back	0.2	38.10

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*PRODUCT warranty exceptions:

Switching Zone Relays	3 years
Switching zone relays + valves (Z-one valves and Z-one relays installed together)	5 years

NOT COVERED: This Limited Warranty also does not apply to, and WARRANTOR shall have no liability or responsibility in respect of, damages or expenses relating to:

- The failure to properly store, transport, install or use the PRODUCT as, for example, specified in any manuals or other literature supplied by WARRANTOR, on WARRANTOR's website, or in accordance with any applicable laws, codes, regulators or standards;
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- Alteration, change or modification of the PRODUCT, including its subcomponents, parts or assemblies;
- WARRANTOR also makes no warranty that a PRODUCT manufactured does not infringe the intellectual property or other proprietary rights of any third party;
- Accidents, misuse, abuse, abnormal use, improper use, negligent use, wilful misconduct, or use exceeding the recommended and permitted limits of the PRODUCT, and/or normal wear or deterioration;
- Any defect or non-conformity that has not been timely and promptly communicated in writing to WARRANTOR as set forth herein.
- Any damage, cost or expense caused by Act of God; or
- Loss of time, loss of use, inconvenience, loss of profits, lost business, lost business opportunities, damage to reputation, goodwill and any incidental or consequential damages arising out of or relating to the PRODUCT, or other matters not specifically covered hereunder.

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All requests and notices under this Limited Warranty shall be directed to:

Caleffi North America Inc.
3883 West Milwaukee Road
Milwaukee, WI 53208
E-Mail: returns.us@caleffi.com
Phone (414) 238-2360
Fax: (414) 238-2366

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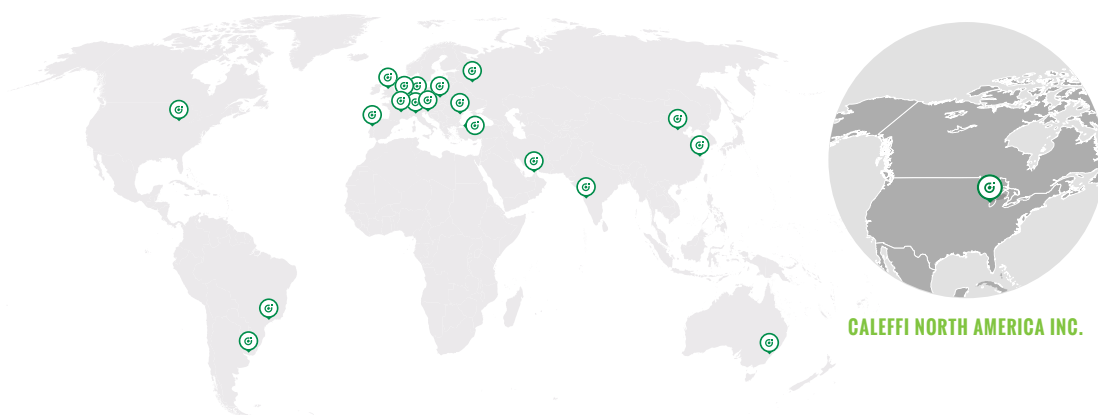
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