

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](http://caleffi.com) or contact us at [marketingadmin@caleffi.com](mailto:marketingadmin@caleffi.com). **CALEFFI GUARANTEED.**



# AWARD-WINNING PLUMBING INNOVATION



2014

2018

2019

2020

2021

2022

2023

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

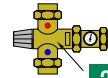
## Commercial

Use 5213 TubMixer™ for high flow fixtures



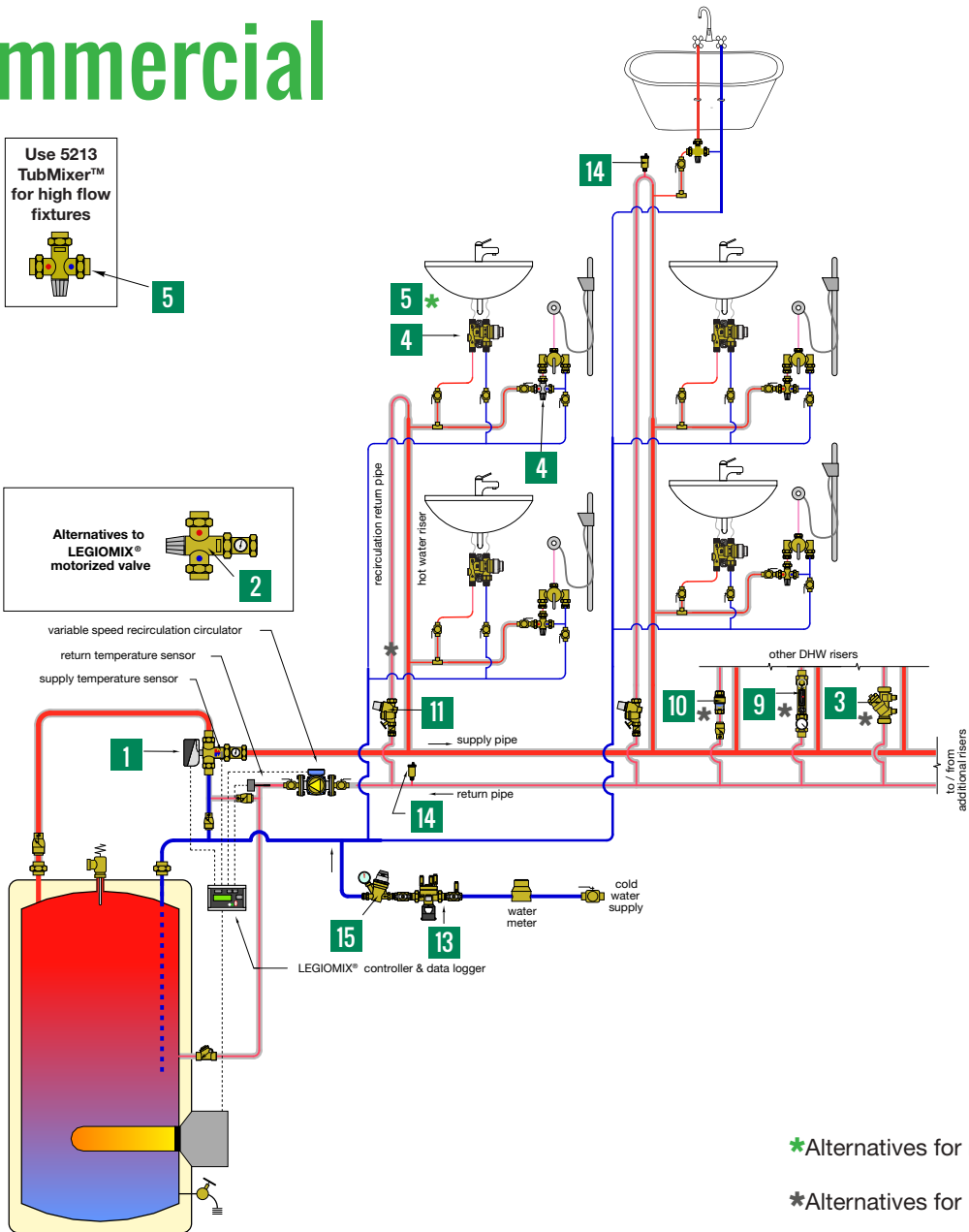
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Alternatives to LEGIOMIX® motorized valve



2

variable speed recirculation circulator  
return temperature sensor  
supply temperature sensor

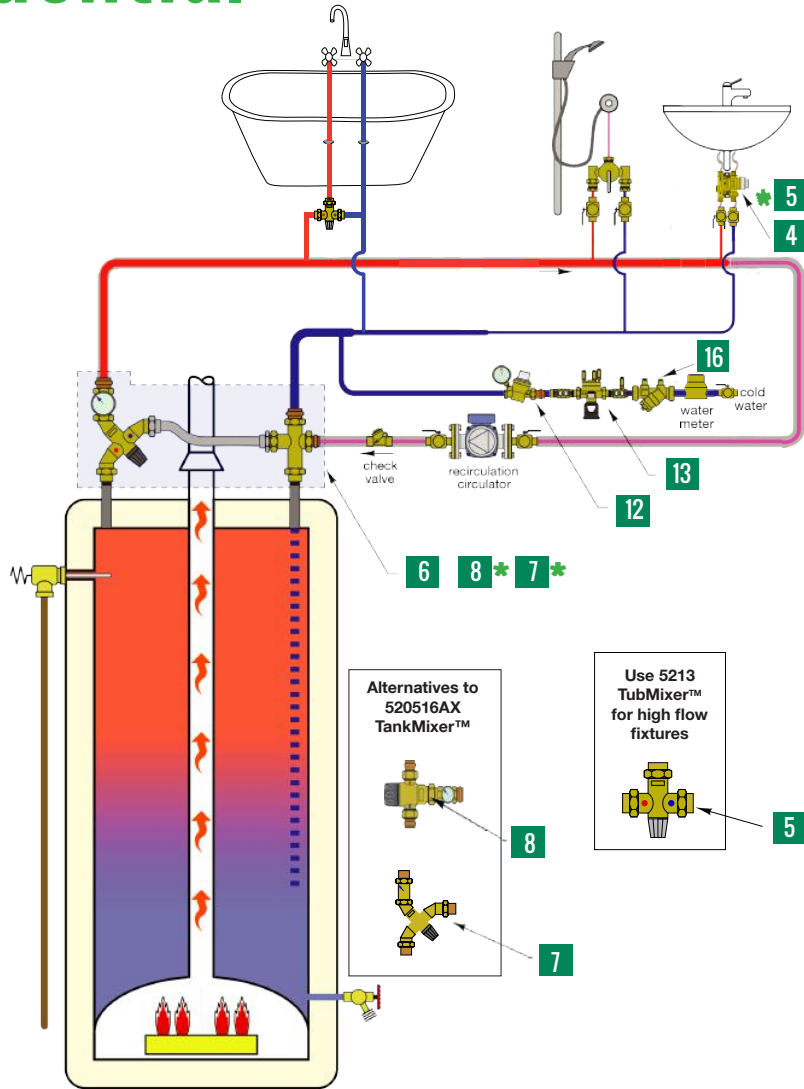


\*Alternatives for mixing.

\*Alternatives for balancing.

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

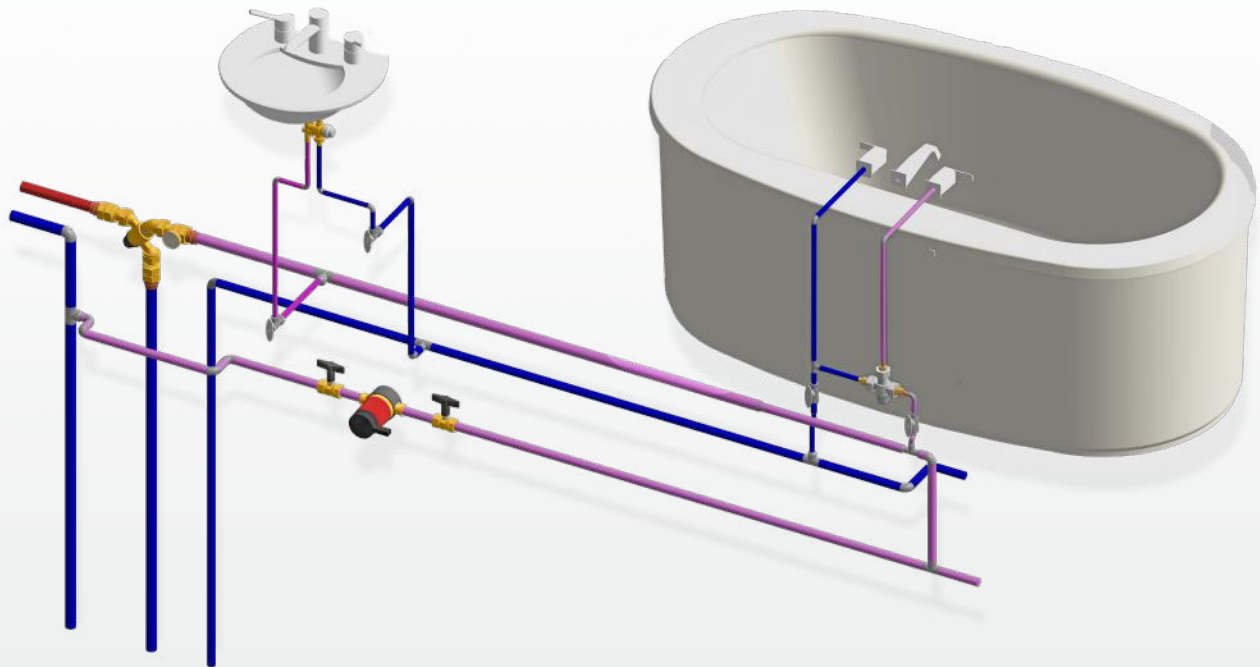


# CUTTING-EDGE INNOVATION IN TEMPERATURE MIXING



**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



## 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
<b>521409A</b>	1/2" sweat union	3.0	2.4	<b>200.00</b>
<b>521409AC</b>	1/2" sweat union, check valves	3.0	2.4	<b>221.00</b>
<b>521509A</b>	3/4" sweat union	3.0	2.4	<b>209.00</b>
<b>521509AC</b>	3/4" sweat union, check valves	3.0	2.4	<b>240.00</b>
<b>521609A</b>	1" sweat union	3.0	2.4	<b>249.00</b>
<b>521609AC</b>	1" sweat union, check valves	3.0	2.4	<b>278.00</b>



**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
<b>521400A</b>	1/2" NPT male union	3.0	2.4	<b>209.00</b>
<b>521400AC</b>	1/2" NPT male union, check valves	3.0	2.4	<b>230.00</b>
<b>521500A</b>	3/4" NPT male union	3.0	2.4	<b>218.00</b>
<b>521500AC</b>	3/4" NPT male union, check valves	3.0	2.4	<b>249.00</b>
<b>521600A</b>	1" NPT male union	3.0	2.4	<b>259.00</b>
<b>521600AC</b>	1" NPT male union, check valves	3.0	2.4	<b>288.00</b>



**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
<b>521406A</b>	1/2" press union	3.0	2.4	<b>213.00</b>
<b>521406AC</b>	1/2" press union, check valves	3.0	2.5	<b>234.00</b>
<b>521506A</b>	3/4" press union	3.0	2.4	<b>218.00</b>
<b>521506AC</b>	3/4" press union, check valves	3.0	2.5	<b>271.00</b>
<b>521606A</b>	1" press union	3.0	2.6	<b>264.00</b>
<b>521606AC</b>	1" press union, check valves	3.0	3.1	<b>287.00</b>



**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
<b>521407A</b>	1/2" PEX crimp union	3.0	2.4	<b>200.00</b>
<b>521407AC</b>	1/2" PEX crimp union, check valves	3.0	2.9	<b>221.00</b>
<b>521408A</b>	1/2" PEX expansion union	3.0	2.4	<b>209.00</b>
<b>521408AC</b>	1/2" PEX expansion union, check valves	3.0	2.9	<b>240.00</b>
<b>521507A</b>	3/4" PEX crimp union	3.0	2.4	<b>249.00</b>
<b>521507AC</b>	3/4" PEX crimp union, check valves	3.0	2.9	<b>278.00</b>
<b>521508A</b>	3/4" PEX expansion union	3.0	2.4	<b>200.00</b>
<b>521508AC</b>	3/4" PEX expansion union, check valves	3.0	2.9	<b>221.00</b>
<b>521607A</b>	1" PEX crimp union	3.0	2.4	<b>209.00</b>
<b>521607AC</b>	1" PEX crimp union, check valves	3.0	2.9	<b>240.00</b>
<b>521608A</b>	1" PEX expansion union	3.0	2.4	<b>249.00</b>
<b>521608AC</b>	1" PEX expansion union, check valves	3.0	2.9	<b>278.00</b>

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**



**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	<b>238.00</b>
521419AC	1/2" sweat union, check valves	3.0	2.9	<b>258.00</b>
521519A	3/4" sweat union	3.0	2.9	<b>246.00</b>
521519AC	3/4" sweat union, check valves	3.0	2.9	<b>276.00</b>
521619A	1" sweat union	3.0	2.9	<b>287.00</b>
521619AC	1" sweat union, check valves	3.0	2.9	<b>317.00</b>



**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	<b>246.00</b>
521410AC	1/2" NPT male union, check valves	3.0	2.9	<b>266.00</b>
521510A	3/4" NPT male union	3.0	2.9	<b>256.00</b>
521510AC	3/4" NPT male union, check valves	3.0	2.9	<b>284.00</b>
521610A	1" NPT male union	3.0	2.9	<b>298.00</b>
521610AC	1" NPT male union, check valves	3.0	2.9	<b>325.00</b>



**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	<b>250.00</b>
521416AC	1/2" press union, check valves	3.0	3.0	<b>269.00</b>
521516A	3/4" press union	3.0	2.9	<b>256.00</b>
521516AC	3/4" press union, check valves	3.0	3.0	<b>307.00</b>
521616A	1" press union	3.0	3.1	<b>302.00</b>
521616AC	1" press union, check valves	3.0	3.5	<b>324.00</b>



**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	<b>238.00</b>
521417AC	1/2" PEX crimp union, checks	3.0	2.9	<b>258.00</b>
521418A	1/2" PEX expansion union	3.0	2.5	<b>238.00</b>
521418AC	1/2" PEX expansion union, checks	3.0	2.9	<b>258.00</b>
521517A	3/4" PEX crimp union	3.0	2.5	<b>246.00</b>
521517AC	3/4" PEX crimp union, checks	3.0	2.9	<b>276.00</b>
521518A	3/4" PEX expansion union	3.0	2.5	<b>246.00</b>
521518AC	3/4" PEX expansion union, checks	3.0	2.9	<b>276.00</b>
521617A	1" PEX crimp union	3.0	2.5	<b>287.00</b>
521617AC	1" PEX crimp union, checks	3.0	2.9	<b>317.00</b>
521618A	1" PEX expansion union	3.0	2.5	<b>287.00</b>
521618AC	1" PEX expansion union, checks	3.0	2.9	<b>317.00</b>

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

**ACCESSORIES**



Replacement check valves for 521 (AC models).

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



Conical inlet filter for 521 mixing valves.

Code	Description	Lbs	USD
<b>F52429</b>	Conical filter for 521 mixing valve	0.1	<b>5.00</b>

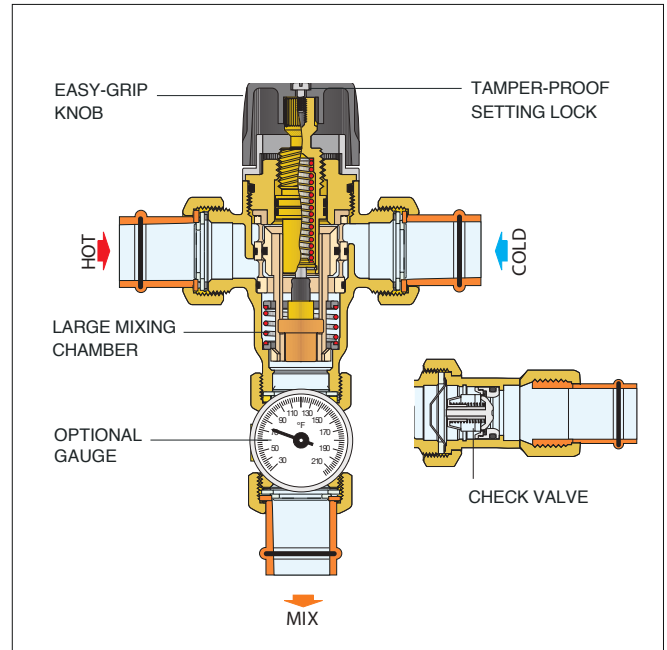


**521 MixCal™ Body**

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

Code	Description	Cv	Lbs	USD
<b>521101A</b>	1" union body	3.0	1.9	<b>153.00</b>

**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
<b>523179A</b>	For 1" and 1¼" sizes	4.4 to 40	7.6	5.0	<b>1,129.00</b>
<b>523199A</b>	For 1½" and 2" sizes	8.8 to 70	14.2	14.2	<b>1,616.00</b>



**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
<b>523177A</b>	1¼" sweat union	7.6	9.0	<b>1,412.00</b>

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**



**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 - MaxFlow (gpm)	Cv	Lbs	USD
523168A	1" sweat union	4.4 to 40	7.0	7.0	<b>1,257.00</b>
523178A	1¼" sweat union	4.4 to 40	7.6	7.0	<b>1,313.00</b>
523188A	1½" sweat union	8.8 to 70	13	17	<b>1,973.00</b>
523198A	2" sweat union	8.8 to 70	14	18	<b>2,074.00</b>



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	<b>144.00</b>
NA10476	1" and 1¼" male x female union	3.0	<b>165.00</b>
NA10461	1½" and 2" male x female union	4.0	<b>283.00</b>
688003A	Replacement gauge with pocket well	0.2	<b>40.50</b>
R39591	Replacement gauge	0.1	<b>26.50</b>



**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 - MaxFlow (gpm)	Cv	Lbs	USD
523160A	1" NPT male union	4.4 to 40	7.0	7.0	<b>1,270.00</b>
523170A	1¼" NPT male union	4.4 to 40	7.6	7.0	<b>1,372.00</b>
523180A	1½" NPT male union	8.8 to 70	13	17	<b>2,023.00</b>
523190A	2" NPT male union	8.8 to 70	14	18	<b>2,127.00</b>



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

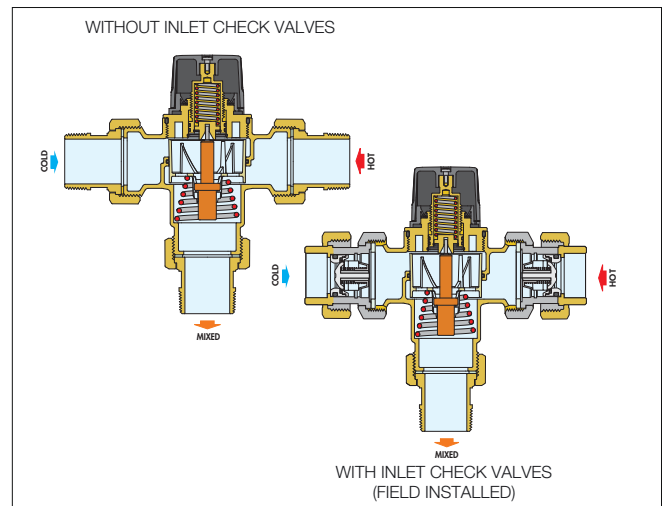
Code	Description	Lbs	USD
NA10366	Check valve assembly 1" and 1¼"	1.0	<b>103.00</b>
NA10367	Check valve assembly 1½" & 2"	1.5	<b>228.00</b>



**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 - MaxFlow (gpm)	Cv	Lbs	USD
523166A	1" press union	4.4 to 40	7.0	7.0	<b>1,337.00</b>
523176A	1¼" press union	4.4 to 40	7.6	7.0	<b>1,399.00</b>
523186A	1½" press union	8.8 to 70	13	17	<b>2,150.00</b>
523196A	2" press union	8.8 to 70	14	18	<b>2,391.00</b>



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™ 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



**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



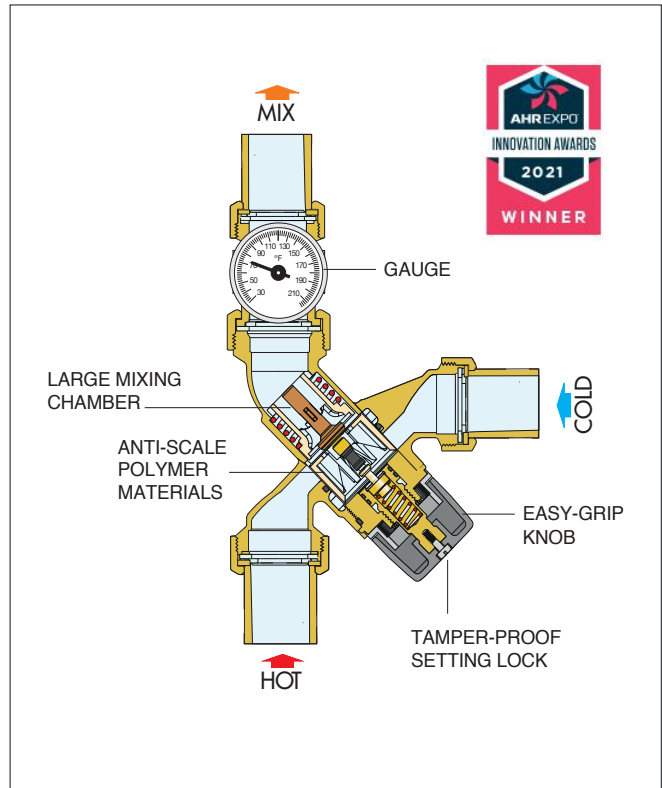
**520 AngleMix™ Body**

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

**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/fittings	1.1	115.00



**5213 TubMixer™**  
High-Flow Scald Protection

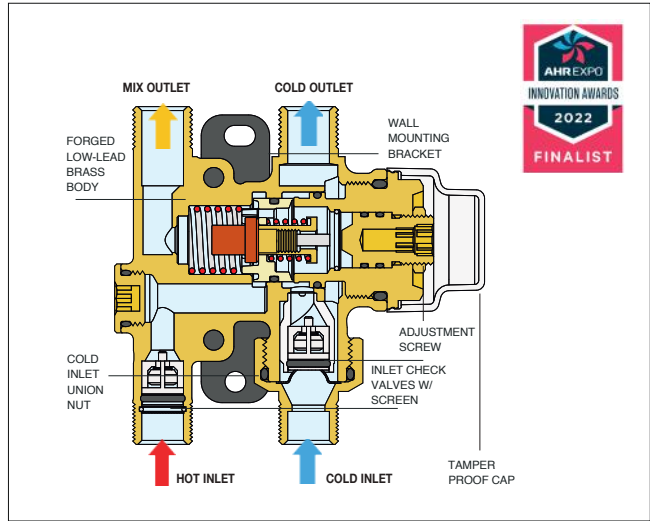
Adjustable thermostatic high-flow point of use mixing valve for Roman Tubs and other high-flow fixtures. Locking set point knob. Complete with check valves on both hot and cold inlets. Low-lead brass body. Max. working pressure: 150 psi. Max. inlet temperature: 185°F. Adjustable range: 85° – 120°F. Temperature 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.

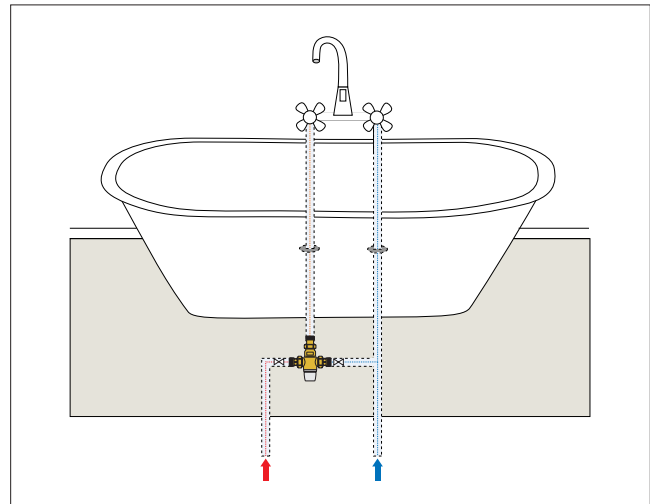
Code	Description	Lbs	USD
F0001270	Replacement check valve/filter kit	0.1	6.80



**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.

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



**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.

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

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.



**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
600056A	¾" press union	9.7	5.1	<b>2,972.00</b>
600066A 001	1" press union, ¾" body	9.7	5.2	<b>3,084.00</b>
600066A	1" press union	21	7.3	<b>3,197.00</b>
600076A	1¼" press union	24	8.2	<b>3,252.00</b>
600086A	1½" press union	34	21	<b>3,767.00</b>
600096A	2" press union	48	22	<b>3,989.00</b>



**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
600060A	2½" ANSI 150 flanges	105	30	<b>13,462.00</b>
600080A	3" ANSI 150 flanges	120	42	<b>14,250.00</b>

**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.



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
<b>F69807</b>	Fits 1" and 1¼" valve	1.0	<b>66.30</b>



Replacement mixed temp sensor.

Code	Description	Lbs	USD
<b>F69804</b>	Fits 1½" and 2" valve	1.0	<b>94.30</b>



Replacement recirculation sensor.

Code	Description	Lbs	USD
<b>F69591</b>	Replacement recirculation sensor	1.0	<b>84.20</b>



Replacement controller.

Code	Description	Lbs	USD
<b>F000962</b>	Replacement controller	1.5	<b>1,890.00</b>



Replacement actuator.

Code	Description	Lbs	USD
<b>645114</b>	Replacement actuator	1.0	<b>473.00</b>



Replacement transformer.

Code	Description	Lbs	USD
<b>NA10759</b>	Plug-in transformer 20 VA	1.0	<b>40.60</b>



LEGIOMIX® parts bag assembly.

Code	Description	Lbs	USD
<b>R0001397</b>	Bag assembly	0.2	<b>86.50</b>



Replacement temp gauge.

Code	Description	Lbs	USD
<b>R19101</b>	Replacement temp gauge	0.3	<b>23.00</b>



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

Code	Description	Lbs	USD
<b>755052</b>	Modbus-to-BACnet gateway	1.2	<b>2,007.00</b>



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
<b>NA10366</b>	Check valve assembly 1" and 1¼"	1.0	<b>103.00</b>
<b>NA10367</b>	Check valve assembly 1½" & 2"	1.5	<b>228.00</b>



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

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

Replacement controller battery.



Code	Description	Lbs	USD
<b>F69888</b>	Replacement controller battery	0.1	<b>47.50</b>

**ELECTRONIC MIXING VALVES FOR PLUMBING**



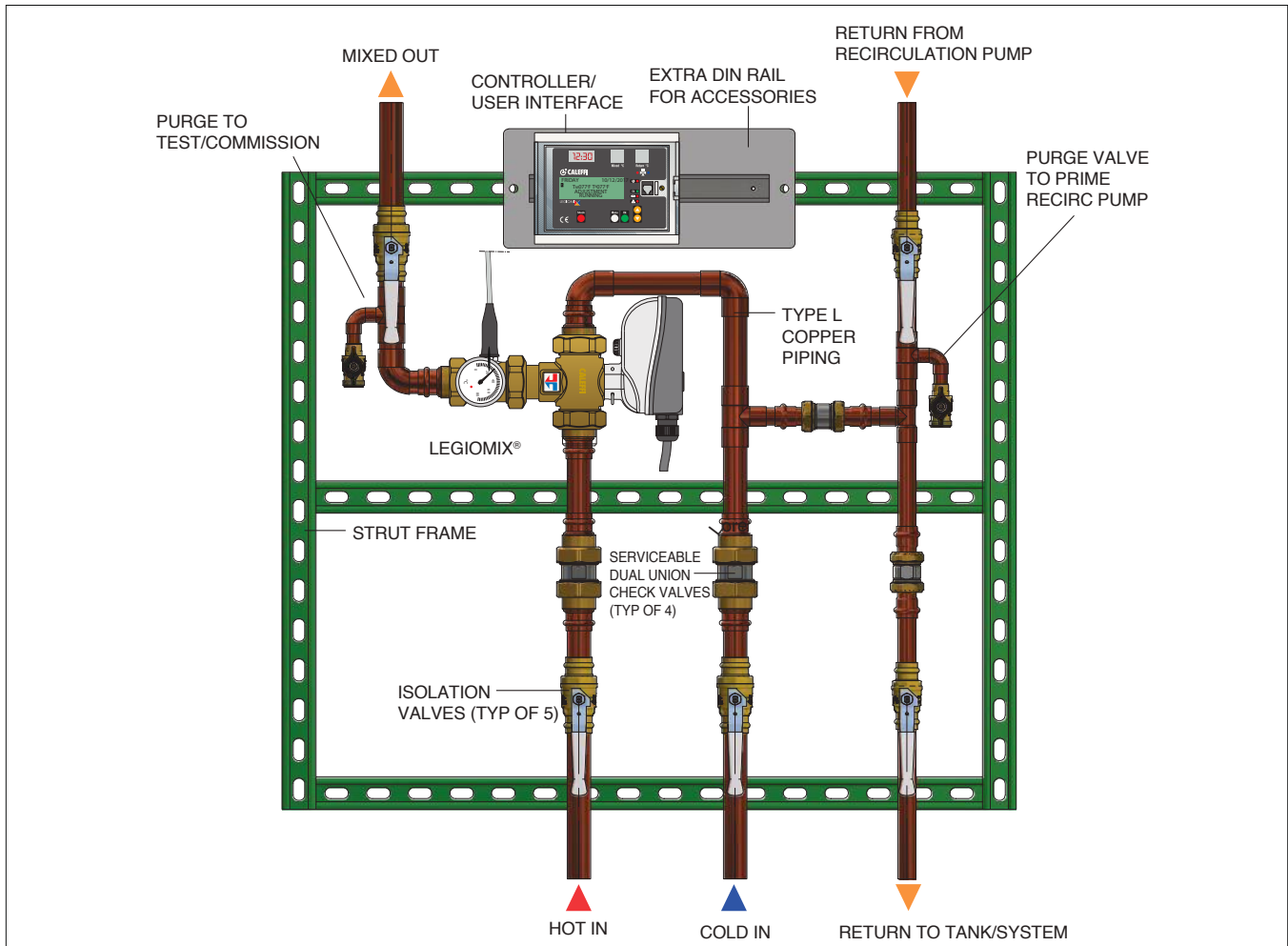
**6000 LEGIOMIX® Station**

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	<b>9,922.00</b>
600076AS	1¼" copper wall-mount station	9.0	148	<b>11,274.00</b>
600086AS	1½" copper wall-mount station	20	219	<b>14,269.00</b>
600096AS	2" copper wall-mount station	38	248	<b>16,196.00</b>
600060AS	2½" copper wall-mount station	43	250	<b>18,522.00</b>

**Construction details**



**THERMOSTATIC MIXING VALVE KITS FOR DOMESTIC WATER HEATERS**



**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: 3/4" NPT female union connections.  
 System: 3/4" NPT M, press or sweat union connections.

Code	Description	Cv	Lbs	USD
520500AX	3/4" NPT male union system connections	2.0	2.4	<b>287.00</b>
520506AX	3/4" press union system connections	2.0	2.4	<b>328.00</b>
520509AX	3/4" sweat union system connections	2.0	2.4	<b>277.00</b>

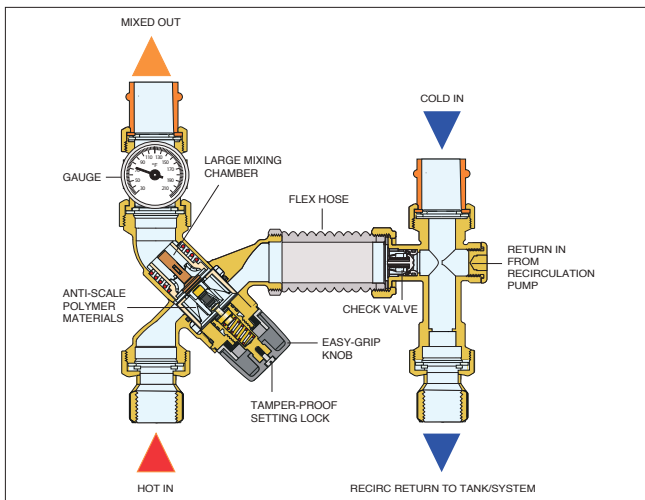


**520 TankMixer™ with gauge**

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: 3/4" NPT female union connections.  
 System: 3/4" NPT M, press or sweat union connections.

Code	Description	Cv	Lbs	USD
520510AX	3/4" NPT male union system connections	2.0	2.9	<b>328.00</b>
520516AX	3/4" press union system connections	2.0	2.9	<b>369.00</b>
520519AX	3/4" sweat union system connections	2.0	2.9	<b>318.00</b>

**Construction details TankMixer™**



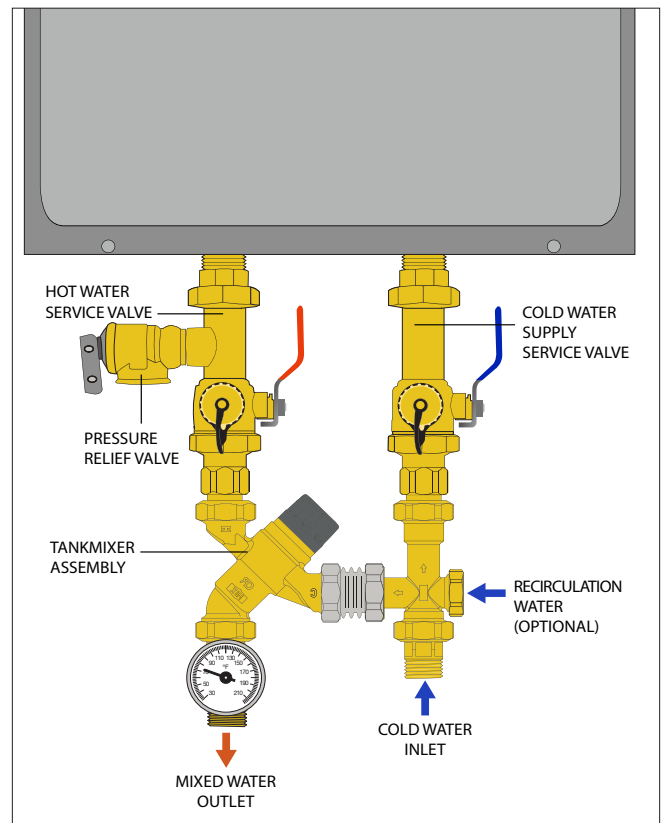
**520 TankMixer™ with Tankless Heater Service Valve Kit**

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	3/4" press	2.0	5.0	<b>475.00</b>
290519A	3/4" sweat	2.0	5.0	<b>456.00</b>
290510A	3/4" FNPT	2.0	5.0	<b>467.00</b>
290517A	3/4" PEX crimp	2.0	5.0	<b>456.00</b>
290518A	3/4" PEX exp	2.0	5.0	<b>456.00</b>

**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

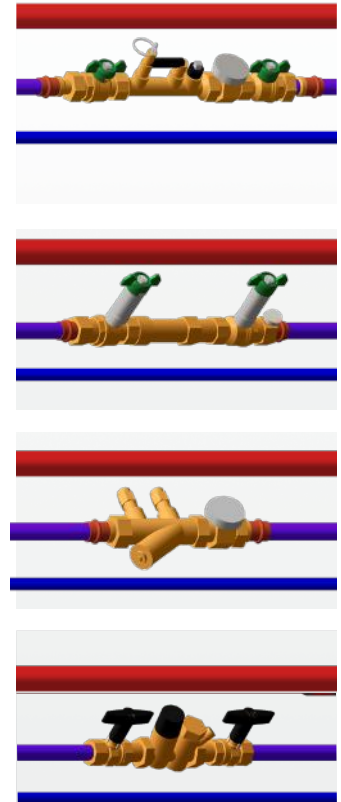
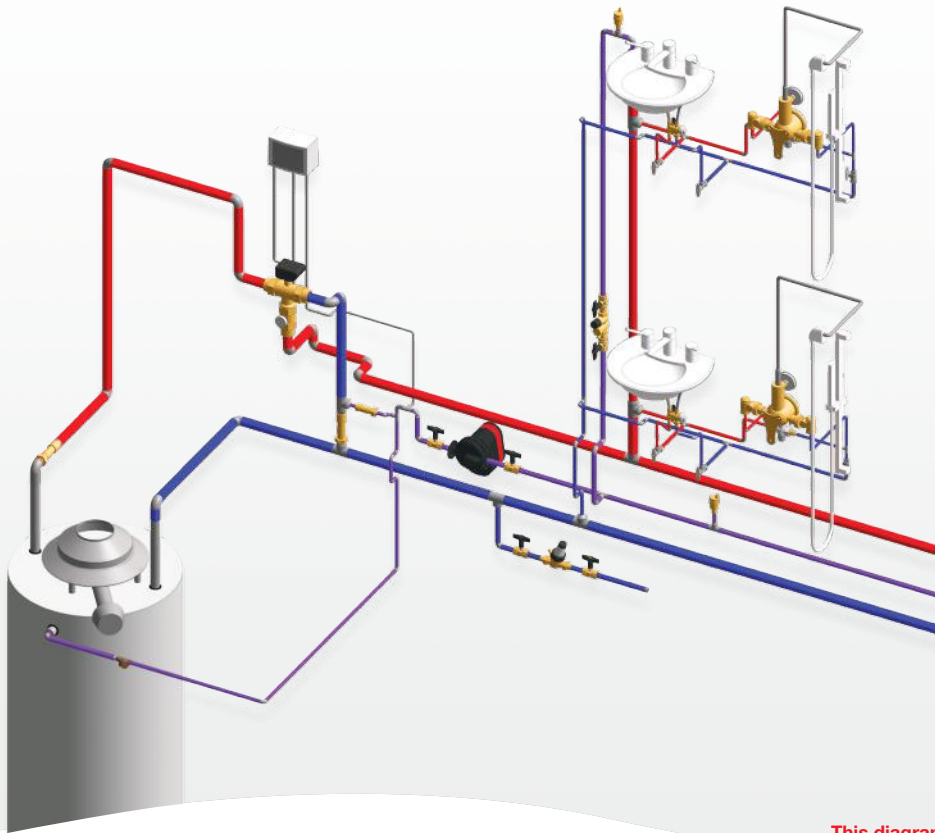


**ThermoSetter™** thermal balancing valves maintain precise temperature in recirculation return piping using state-of-the-art modulating control. **Setup is simple** and safe with an easy-to-read, lockable temperature adjustment dial. Enjoy **ease of maintenance** with serviceable cartridge. Models with 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



  
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## 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™**

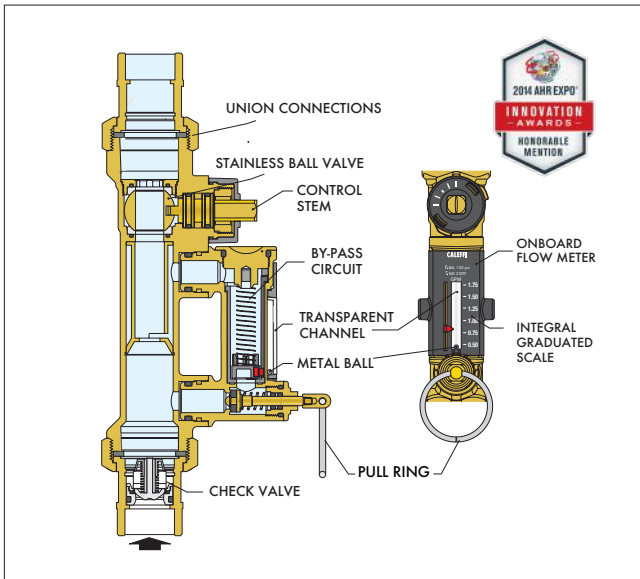
Balancing valve with flow meter.  
 Direct reading of flow rate.  
 No sight gauge clouding or scaling.  
 Brass valve body and flow meter.  
 Max. working pressure: 150 psi.  
 Temperature range: 14°–230°F.  
 Max. percentage of glycol: 50%.  
 Insulation jacket included.

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

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

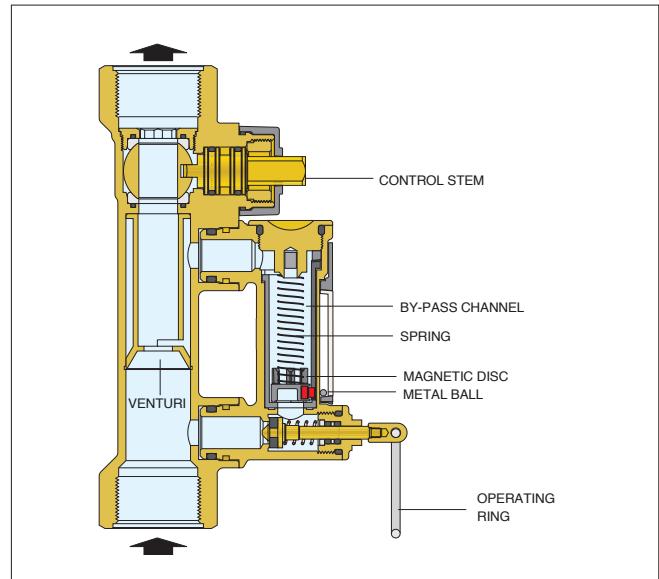
**STATIC BALANCING VALVES WITH BUILT-IN FLOWMETER**

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

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**ACCESSORIES**



See 290030 and NA108 isolation valves in Section 6D.

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



**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
<b>NA10824</b>	½" FNPT ball valve low lead	0.4	<b>38.40</b>
<b>NA10825</b>	¾" FNPT ball valve low lead	0.6	<b>47.10</b>
<b>NA10826</b>	1" FNPT ball valve low lead	1.0	<b>61.10</b>
<b>NA10827</b>	1¼" FNPT ball valve low lead	1.6	<b>102.00</b>
<b>NA10828</b>	1½" FNPT ball valve low lead	1.9	<b>129.00</b>
<b>NA10829</b>	2" FNPT ball valve low lead	3.0	<b>314.00</b>



Replacement flow meter.

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

\*With operating ring



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

Code	Description	Lbs	USD
<b>F0000926</b>	For models with temperature gauge	0.1	<b>42.40</b>
<b>112001</b>	For models without temperature gauge	0.1	<b>41.80</b>



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

Code	Description	Lbs	USD
<b>132637</b>	0.5 - 1.8 GPM	1.0	<b>210.00</b>
<b>132657</b>	2.0 - 7.0 GPM	1.0	<b>221.00</b>

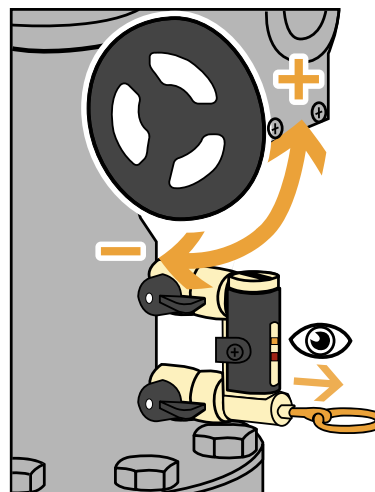
**STATIC BALANCING VALVES WITH BUILT-IN FLOWMETER FOR HYDRONICS**



**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%.

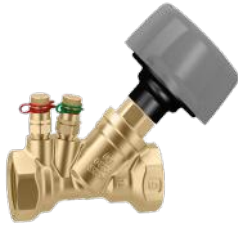
Code	Description	Flow scale (gpm)	Lbs	USD
<b>132060A</b>	2½" ANSI flange	30—105	35	<b>1,256.00</b>
<b>132080A</b>	3" ANSI flange	38—148	62	<b>1,675.00</b>
<b>132100A</b>	4" ANSI flange	55—210	67	<b>2,556.00</b>



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**



**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.

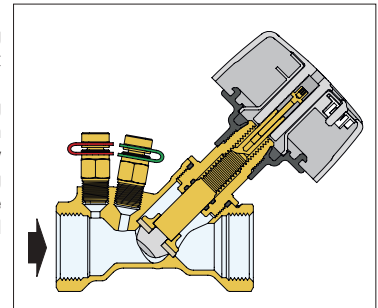


Insulation shell fits 130 Series balancing valves.

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.



P2

**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

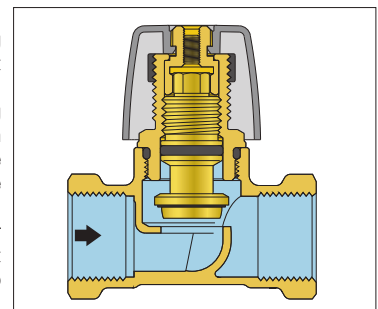


Insulation shell fits 142 Series balancing valves.

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***	1/2" sweat, PT ports, check	2.0	162.00
128458AFC***	3/4" 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***	1/2" NPT male, PT ports, check	2.0	167.00
128450AFC***	3/4" 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***	1/2" press, PT ports, check	2.0	184.00
128457AFC***	3/4" press, PT ports, check	2.0	207.00
128467AFC***	1" press, PT ports, check	2.2	215.00

**NEW**



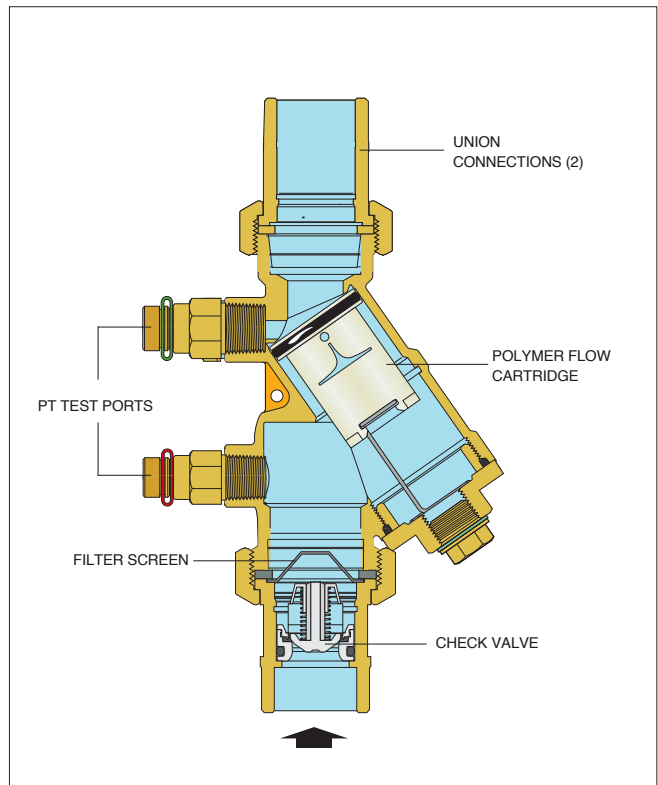
**128 FlowCal+™ PEX**

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***	1/2" PEX crimp, PT ports, check	2.0	162.00
128455AFC***	3/4" PEX crimp, PT ports, check	2.0	189.00
128465AFC***	1" PEX crimp, PT ports, check	2.2	198.00
128443AFC***	1/2" PEX expansion, PT ports, check	2.0	162.00
128453AFC***	3/4" 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**

P2

**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***	1/2" sweat, PT ports, check	1.8	130.00
128459AFC***	3/4" sweat, PT ports, check	1.8	137.00
128469AFC***	1" sweat, PT ports, check	2.0	165.00

**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***	1/2" PEX crimp, PT ports, check	1.8	130.00
128454AFC***	3/4" PEX crimp, PT ports, check	1.8	137.00
128464AFC***	1" PEX crimp, PT ports, check	2.0	165.00
128442AFC***	1/2" PEX expansion, PT ports, check	1.8	130.00
128452AFC***	3/4" PEX expansion, PT ports, check	1.8	137.00
128462AFC***	1" PEX expansion, PT ports, check	2.0	165.00

**NEW**



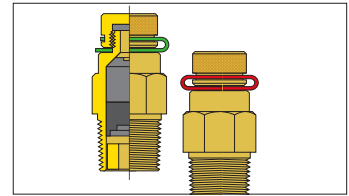
**128 FlowCal+™ NPT**

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***	1/2" NPT male, PT ports, check	1.8	131.00
128451AFC***	3/4" NPT male, PT ports, check	1.6	138.00
128461AFC***	1" NPT male, PT ports, check	1.8	167.00

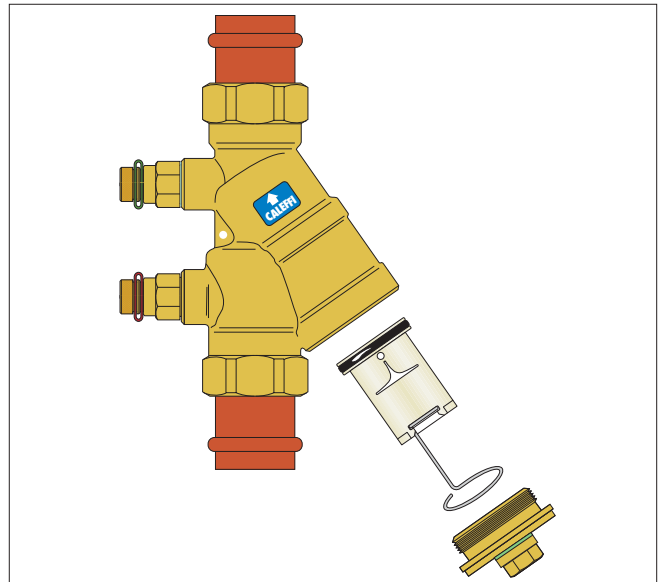
**Connecting Device**

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.



**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***	1/2" press, PT ports, check	1.8	141.00
128456AFC***	3/4" press, PT ports, check	1.8	155.00
128466AFC***	1" press, PT ports, check	2.0	173.00

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.

**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™ 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

**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**



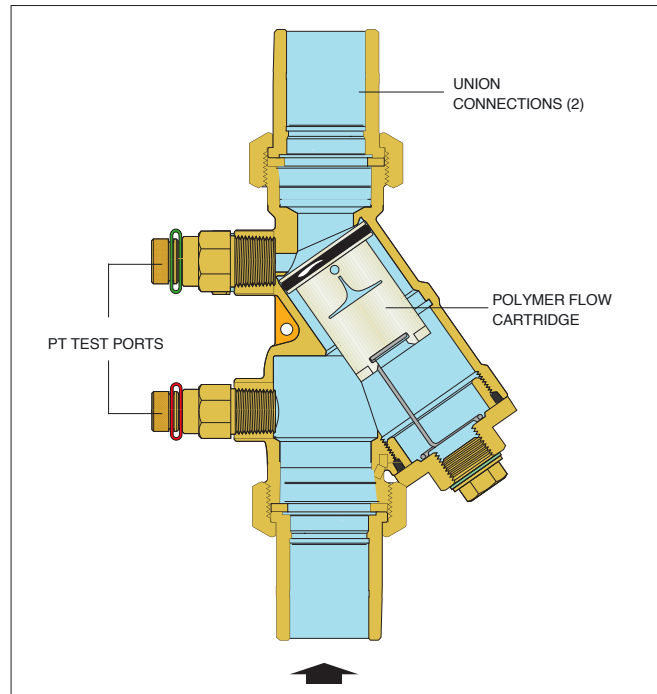
**128 FlowCal™ press**

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

**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.



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.  
 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
<b>127349AF ***</b>	½" sweat union	0.8	<b>108.00</b>
<b>127359AF ***</b>	¾" sweat union	0.8	<b>114.00</b>
<b>127369AF ***</b>	1" sweat union	1.0	<b>131.00</b>



**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
<b>127341AF ***</b>	½" NPT male union	1.0	<b>115.00</b>
<b>127351AF ***</b>	¾" NPT male union	1.0	<b>119.00</b>
<b>127361AF ***</b>	1" NPT male union	1.2	<b>135.00</b>



**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
<b>127346AF ***</b>	½" press union	0.9	<b>127.00</b>
<b>127356AF ***</b>	¾" press union	1.0	<b>140.00</b>
<b>127366AF ***</b>	1" press union	1.3	<b>171.00</b>



**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
<b>127344AF ***</b>	½" PEX crimp union	1.0	<b>108.00</b>
<b>127342AF ***</b>	½" PEX expansion union	1.0	<b>108.00</b>
<b>127354AF ***</b>	¾" PEX crimp union	1.0	<b>114.00</b>
<b>127352AF ***</b>	¾" PEX expansion union	1.0	<b>114.00</b>
<b>127364AF ***</b>	1" PEX crimp union	1.3	<b>131.00</b>
<b>127362AF ***</b>	1" PEX expansion union	1.3	<b>131.00</b>



**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
<b>127000A ***</b>	127 body + *** GPM cartridge, no fittings	1.0	<b>82.20</b>



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

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

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	<b>156.00</b>
127158AFC ***	¾" sweat union	1.0	<b>170.00</b>
127168AFC ***	1" sweat union	1.2	<b>198.00</b>



**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	<b>161.00</b>
127150AFC ***	¾" NPT male union	1.2	<b>193.00</b>
127160AFC ***	1" NPT male union	1.4	<b>200.00</b>



**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	<b>151.00</b>
127157AFC ***	¾" press union	1.2	<b>188.00</b>
127167AFC ***	1" press union	1.5	<b>207.00</b>



**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	<b>156.00</b>
127143AFC ***	½" PEX expansion union	1.2	<b>156.00</b>
127155AFC ***	¾" PEX crimp union	1.2	<b>170.00</b>
127153AFC ***	¾" PEX expansion union	1.2	<b>170.00</b>
127165AFC ***	1" PEX crimp union	1.5	<b>198.00</b>
127163AFC ***	1" PEX expansion union	1.5	<b>198.00</b>

**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

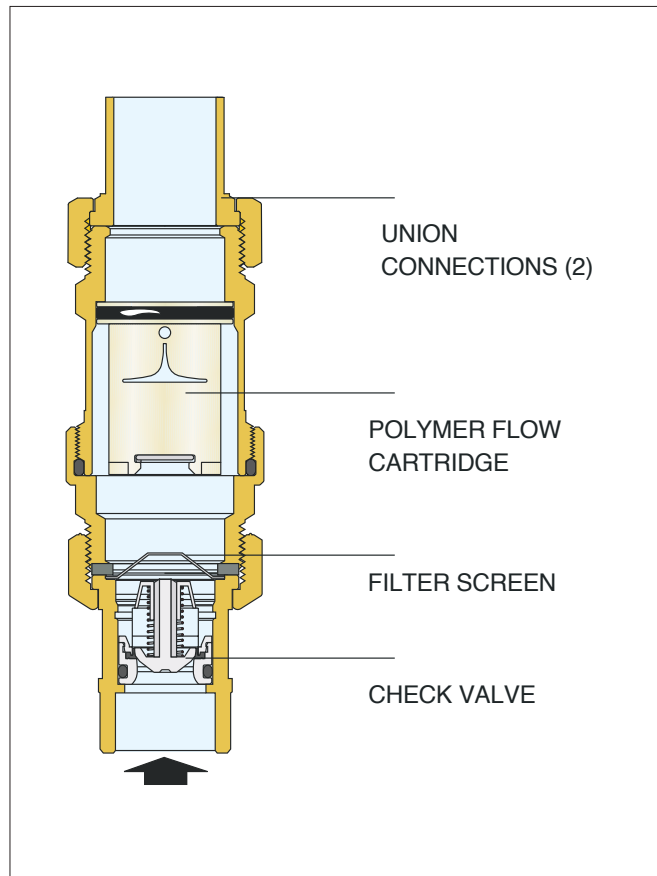


**127 FlowCal+™ PEX**

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+**



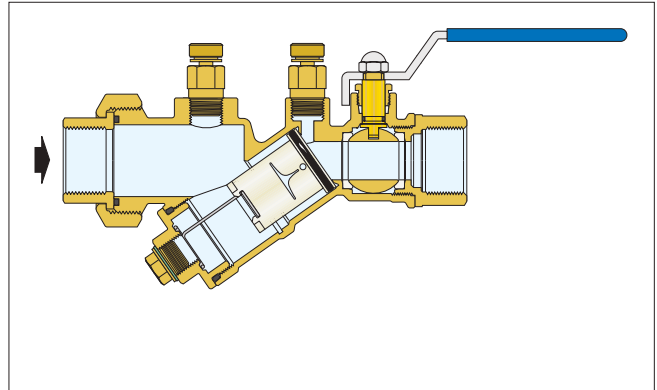
Complies with NSF/ANSI/CAN 372, low lead laws, for use in accordance with the U.S. and Canadian plumbing codes. US Patent 7,246,635 B2.

**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).



Select desired flow rate to complete full part number.

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

Code	Description	Lbs	USD
121141A ...	1/2" NPT female	2.7	142.00
121149A ...	1/2" sweat	2.7	136.00
121151A ...	3/4" NPT female	2.7	143.00
121159A ...	3/4" sweat	2.7	137.00
121161A ...	1" NPT female	5.0	294.00
121169A ...	1" sweat	5.0	280.00
121171A ...	1 1/4" NPT female	5.0	330.00
121179A ...	1 1/4" sweat	5.0	314.00
121341A ...	1/2" NPT female with PT test ports	3.2	153.00
121349A ...	1/2" sweat with PT test ports	3.2	145.00
121351A ...	3/4" NPT female with PT test ports	3.2	157.00
121359A ...	3/4" 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 ...	1 1/4" NPT female with PT test ports	5.5	340.00
121379A ...	1 1/4" sweat with PT test ports	5.5	323.00

Size	GPM	Last 3 digits ...	Differential Pressure Control Ranges (psid)
1/2", 3/4", 1", 1 1/4"	9	9G0	5 – 35
1/2", 3/4", 1", 1 1/4"	10	10G	
1", 1 1/4"	11	11G	3 – 32
1", 1 1/4"	12	12G	
1", 1 1/4"	13	13G	
1", 1 1/4"	14	14G	4 – 35
1", 1 1/4"	15	15G	
1", 1 1/4"	16	16G	
1", 1 1/4"	17	17G	
1", 1 1/4"	18	18G	
1", 1 1/4"	19	19G	
1", 1 1/4"	20	20G	
1", 1 1/4"	21	21G	

Size	Flow Rates
1/2"	.35 – 10 GPM
3/4"	.35 – 10 GPM
1"	2.5 – 21 GPM
1 1/4"	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.



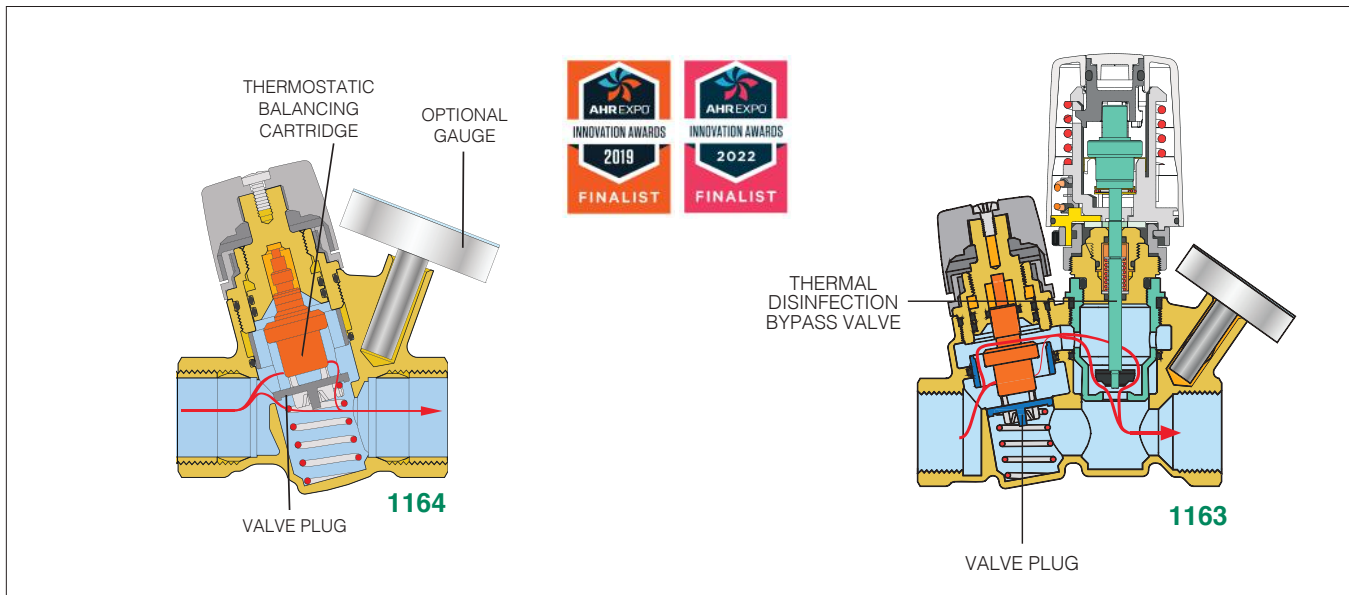
**1163 ThermoSetter™**

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

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

**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.



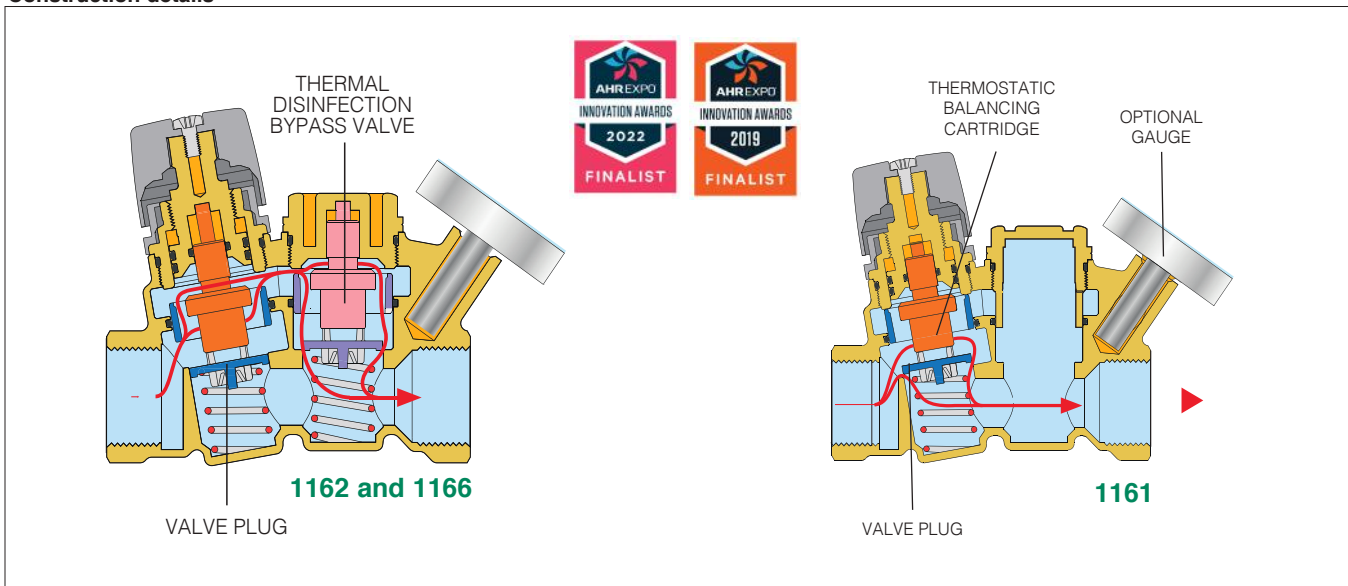
**1161  
ThermoSetter™**

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
<b>F0001286</b>	140°F bypass cartridge	0.1	<b>52.70</b>
<b>F0000580</b>	160°F bypass cartridge	0.1	<b>52.70</b>



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

Code	Description	Lbs	USD
<b>116010</b>	1½" dial temp. gauge	0.1	<b>15.00</b>



Actuator disinfection cartridge for use with 656 actuator.

Code	Description	Lbs	USD
<b>116000</b>	Replacement actuator bypass cartridge	0.1	<b>68.00</b>



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

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



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
<b>NA10834</b>	½" NPT nipple	0.1	<b>4.80</b>
<b>NA10835</b>	¾" NPT nipple	0.1	<b>7.60</b>
<b>NA10836</b>	1" NPT nipple	0.1	<b>11.90</b>
<b>NA10837</b>	1¼" NPT nipple	0.3	<b>20.60</b>
<b>NA10838</b>	1½" NPT nipple	0.3	<b>21.60</b>
<b>NA10839</b>	2" NPT nipple	0.5	<b>31.40</b>



Replacement main balancing cartridge.

Code	Description	Lbs	USD
<b>F0001516</b>	½", ¾" balancing cartridge	0.1	<b>52.70</b>



Insulation shell fits 116 ThermoSetter™ thermal balancing valve.

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

\*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
<b>NA10824</b>	½" FNPT ball valve low lead	0.4	<b>38.40</b>
<b>NA10825</b>	¾" FNPT ball valve low lead	0.6	<b>47.10</b>
<b>NA10826</b>	1" FNPT ball valve low lead	1.0	<b>61.10</b>
<b>NA10827</b>	1¼" FNPT ball valve low lead	1.6	<b>102.00</b>
<b>NA10828</b>	1½" FNPT ball valve low lead	1.9	<b>129.00</b>
<b>NA10829</b>	2" FNPT ball valve low lead	3.0	<b>314.00</b>

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.



# PRESCAL™ PRVS

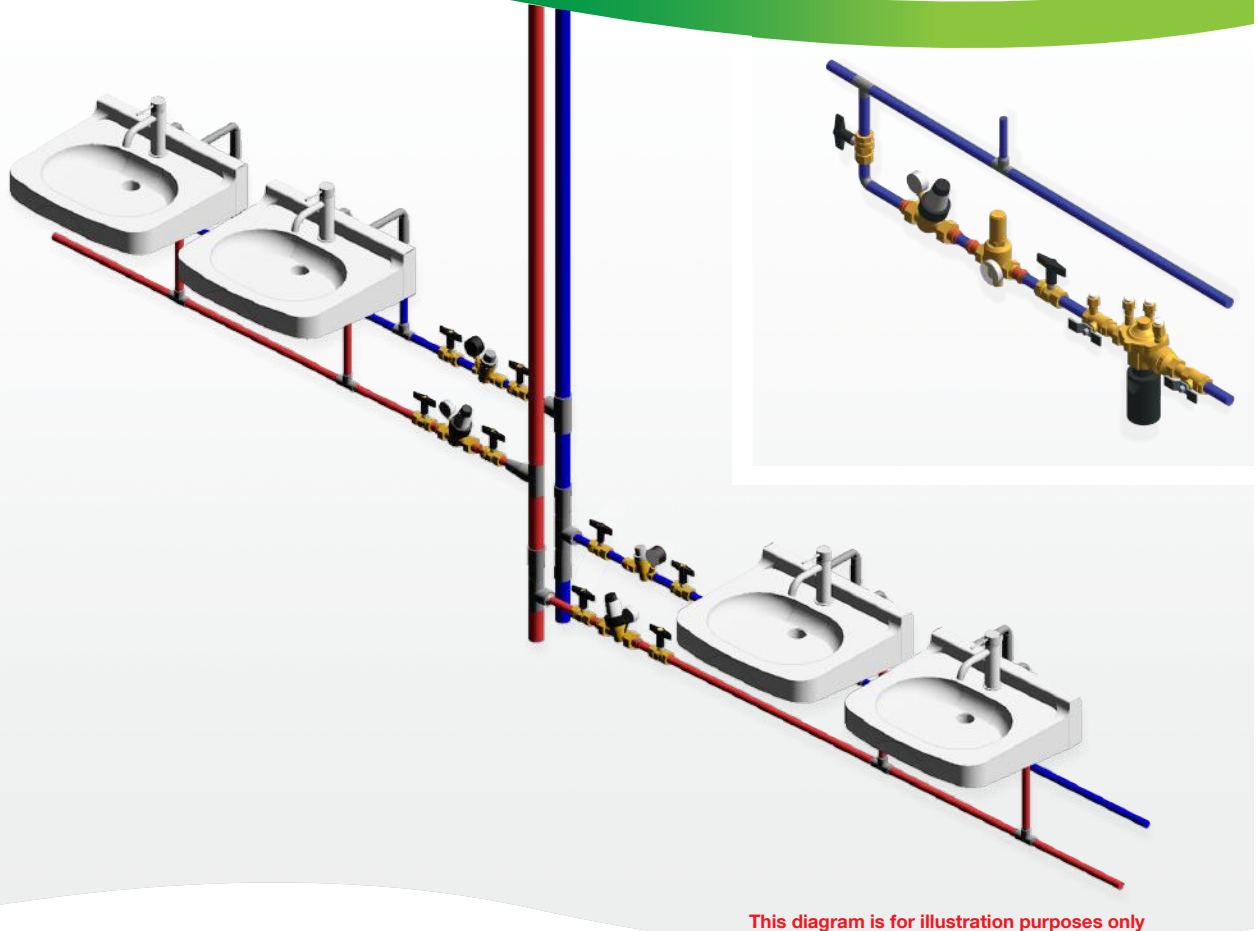
## PRECISION ENGINEERED FOR DURABLE PERFORMANCE



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



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.

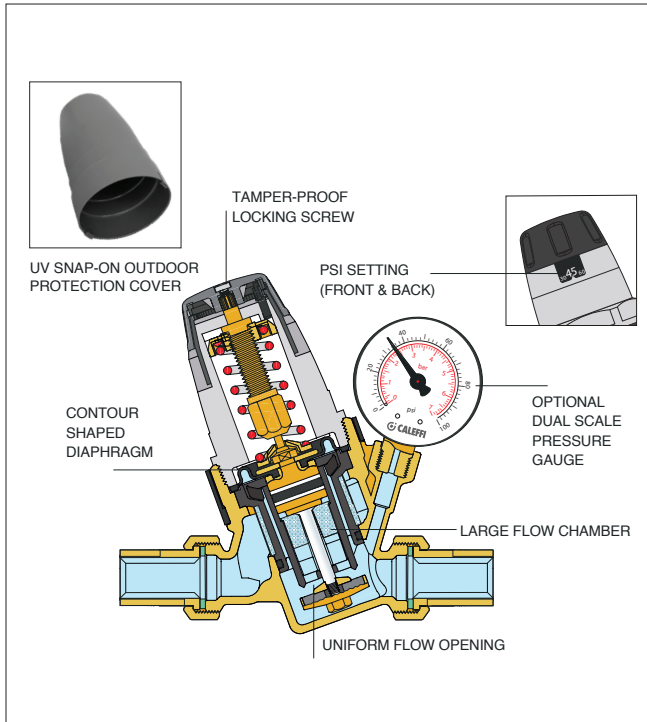
Code	Description	Max GPM	Lbs	USD
535940HA	1/2" sweat union	7.3	1.9	117.00
535941HA*	1/2" sweat union	7.3	2.0	128.00
535950HA	3/4" sweat union	12	2.2	128.00
535951HA*	3/4" sweat union	12	2.3	140.00
535960HA	1" sweat union	19	2.9	168.00
535961HA*	1" sweat union	19	3.0	180.00
535970HA	1 1/4" sweat union	34	5.6	372.00
535971HA*	1 1/4" sweat union	34	5.7	383.00
535980HA	1 1/2" sweat union	44	7.3	522.00
535981HA*	1 1/2" 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	1/2" NPT female union	7.3	2.0	128.00
535341HA*	1/2" NPT female union	7.3	2.1	140.00
535350HA	3/4" NPT female union	12	2.3	137.00
535351HA*	3/4" 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	1 1/4" NPT female union	34	5.7	383.00
535371HA*	1 1/4" NPT female union	34	5.8	395.00
535380HA	1 1/2" NPT female union	44	7.3	549.00
535381HA*	1 1/2" 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	1/2" press union	7.3	1.9	141.00
535641HA*	1/2" press union	7.3	2.0	152.00
535650HA	3/4" press union	12	2.3	144.00
535651HA*	3/4" 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	1 1/4" press union	34	5.8	543.00
535671HA*	1 1/4" press union	34	5.8	554.00
535680HA	1 1/2" press union	44	7.3	779.00
535681HA*	1 1/2" 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	<b>128.00</b>
535751HA*	¾" PEX crimp union	12	2.4	<b>140.00</b>
535550HA	¾" PEX expansion union	19	2.3	<b>168.00</b>
535551HA*	¾" PEX expansion union	19	2.4	<b>180.00</b>
535760HA	1" PEX crimp union	12	3.0	<b>128.00</b>
535761HA*	1" PEX crimp union	12	3.1	<b>140.00</b>
535560HA	1" PEX expansion union	19	3.0	<b>168.00</b>
535561HA*	1" PEX expansion union	19	3.1	<b>180.00</b>

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
<b>NA11304</b>	Jumper nipple for 535H ½"	0.1	<b>15.90</b>
<b>NA11305</b>	Jumper nipple for 535H ¾"	0.1	<b>17.50</b>
<b>NA11306</b>	Jumper nipple for 535H 1"	0.2	<b>18.70</b>
<b>NA11307</b>	Jumper nipple for 535H 1¼"	0.3	<b>20.10</b>
<b>NA11308</b>	Jumper nipple for 535H 1½"	0.3	<b>21.90</b>
<b>NA11309</b>	Jumper nipple for 535H 2"	0.5	<b>63.20</b>

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



Replacement cartridge for 535H Series pressure reducer.

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



**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	<b>91.30</b>
533941HA**	1/2", sweat union in	5.6	2.1	<b>104.00</b>
533950HA*	3/4", sweat union in	10	2.3	<b>65.90</b>
533951HA**	3/4", sweat union in	10	2.4	<b>77.30</b>

\*FNPT outlet  
\*\*FNPT outlet with gauge

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

\*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	<b>100.00</b>
533341HA**	1/2", NPT female union in	5.6	2.0	<b>113.00</b>
533350HA*	3/4", NPT female union in	10	2.2	<b>65.90</b>
533351HA**	3/4", NPT female union in	10	2.3	<b>77.30</b>

\*FNPT outlet  
\*\*FNPT outlet with gauge

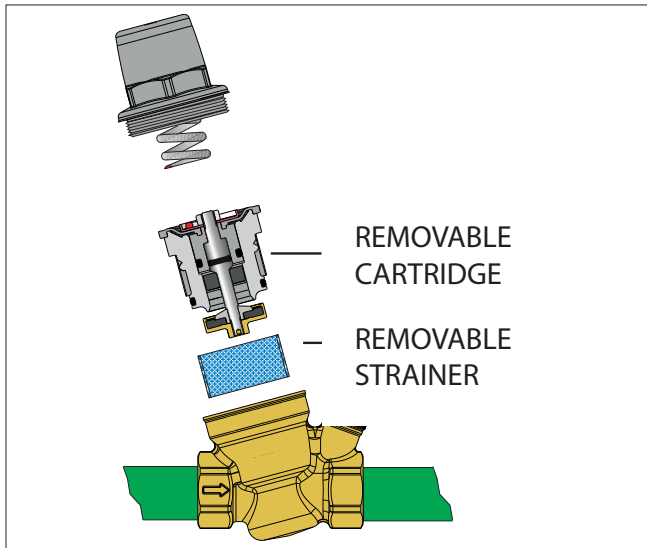
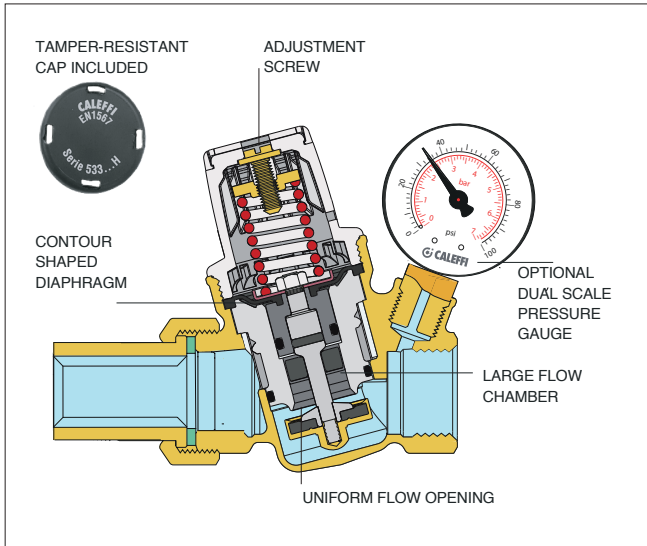
Code	Description	Max GPM	Lbs	USD
533750HA*	3/4", PEX crimp union in	10	2.3	<b>65.90</b>
533751HA**	3/4", PEX crimp union in	10	2.4	<b>77.30</b>
533850HA*	3/4", PEX expan union in	10	2.3	<b>65.90</b>
533851HA**	3/4", PEX expan union in	10	2.3	<b>77.30</b>

\*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
<b>533000H</b>	Fits 533H 1/2", 3/4"	0.2	<b>49.10</b>



**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
<b>NA533449HA</b>	1/2" body	0.7	<b>81.60</b>
<b>NA533459HA</b>	3/4" body	0.9	<b>86.30</b>



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
<b>NA10273</b>	1/8" NPT male	0.1	<b>14.60</b>

P3

**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	<b>321.00</b>
536053A 109	¾" sweat	12	4.4	<b>354.00</b>
536063A 109	1" sweat	19	5.0	<b>468.00</b>
536073A 109	1¼" sweat	34	7.5	<b>648.00</b>
536083A 109	1½" sweat	44	8.8	<b>793.00</b>
536093A 109	2" sweat	70	12	<b>1,020.00</b>

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

**NEW**

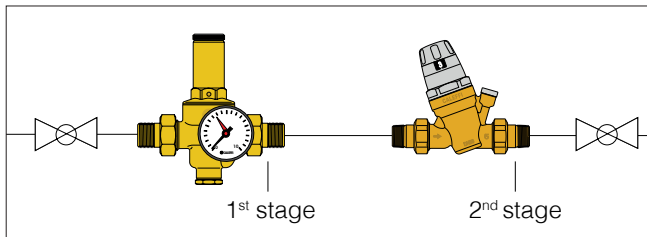


Gauge for high range. 2½" dial. ¼" CBM

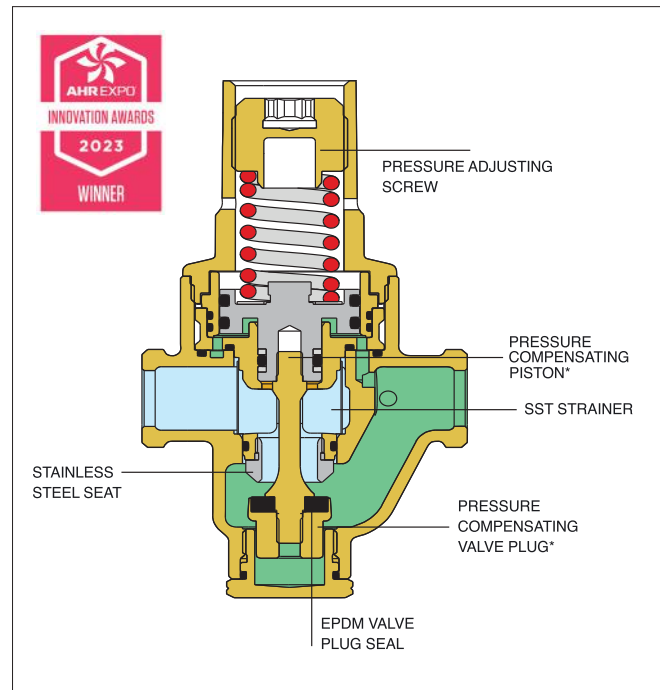
Code	Description	Lbs	USD
NA10813	0-200 psi	0.4	<b>54.10</b>

**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.



**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	½" sweat	7.3	3.3	<b>321.00</b>
536054A 109	¾" sweat	12	4.4	<b>354.00</b>
536064A 109	1" sweat	19	5.0	<b>468.00</b>
536074A 109	1¼" sweat	34	7.5	<b>648.00</b>
536084A 109	1½" sweat	44	8.8	<b>793.00</b>

**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	½" NPT female	7.3	3.3	<b>338.00</b>
536054A 103	¾" NPT female	12	4.4	<b>372.00</b>
536064A 103	1" NPT female	19	5.0	<b>491.00</b>
536074A 103	1-¼" NPT female	34	7.5	<b>680.00</b>
536084A 103	1-½" NPT female	44	8.8	<b>835.00</b>



**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	½" press	7.3	3.3	<b>353.00</b>
536054A 106	¾" press	12	4.4	<b>409.00</b>
536064A 106	1" press	19	5.0	<b>540.00</b>
536074A 106	1-¼" press	34	7.5	<b>749.00</b>
536084A 106	1-½" press	44	8.8	<b>959.00</b>



Gauge for low range. 2½" dial. ¼" CBM

Code	Description	Lbs	USD
NA10817	0-100 psi gauge, low range	0.4	<b>52.50</b>



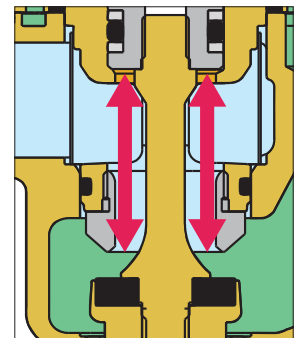
O-ring seal and NA10810 gauge adapter for 536A PresCal™ HP valves.

Code	Description	Lbs	USD
R57264*	O-ring seal	0.1	<b>1.00</b>
NA10810**	¼" G male x ¼" FNPT	0.3	<b>24.90</b>

\*for NA10810 gauge adapter for high and low range.  
\*\*Gauge adapter fitting for high and low range.

**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.



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.

**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.

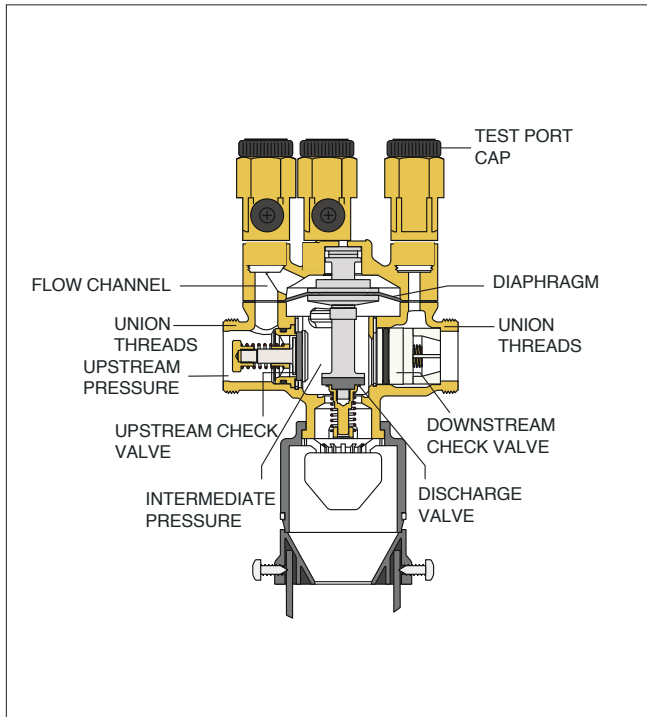
Code	Description	Lbs	USD
574004A	1/2" FNPT	5.0	<b>361.00</b>
574064A	1/2" press	5.1	<b>382.00</b>
59977*	Upstream check valve	0.1	<b>22.40</b>
59978*	Downstream check valve	0.2	<b>25.90</b>
59979*	Discharge valve assembly	0.1	<b>40.20</b>
NA11604**	Rebuild kit (1/2") incl. checks, disch valve	0.7	<b>80.00</b>
59980*	Discharge air gap	0.1	<b>54.10</b>
F0001006*	Test port valve (1/2" - 1")	0.2	<b>24.70</b>

\*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 1/2" RPZ Backflow Preventer**



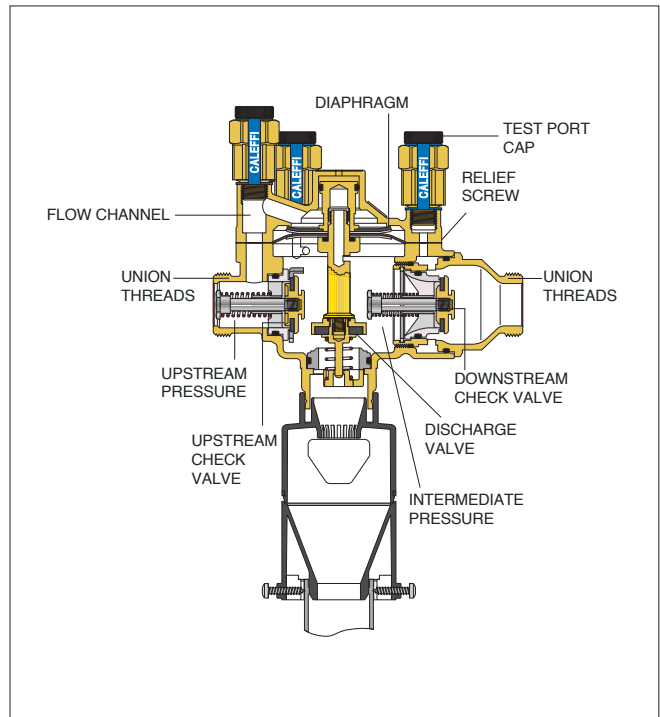
Code	Description	Lbs	USD
574050A	3/4" FNPT	9.5	<b>433.00</b>
574056A	3/4" press	9.6	<b>471.00</b>
59469*	Upstream check valve (3/4")	0.2	<b>57.60</b>
59470*	Downstream check valve (3/4")	0.2	<b>61.20</b>
59471*	Discharge valve assembly (3/4")	0.3	<b>122.00</b>
59472*	Valve seat (3/4")	0.1	<b>43.20</b>
NA11605**	Checks, disch valve, seat for (3/4")	0.8	<b>258.00</b>
39623*	Discharge air gap (3/4" to 2")	0.2	<b>59.50</b>
F0001006*	Test port valve (1/2" to 1")	0.2	<b>24.70</b>

\*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 3/4 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 (3/4" to 2")	0.2	59.50
F0001006	Test port valve (1/2" to 1")	0.2	24.70

\*Replacement  
\*\*Rebuild kit

**574 RPZ Backflow Preventer**

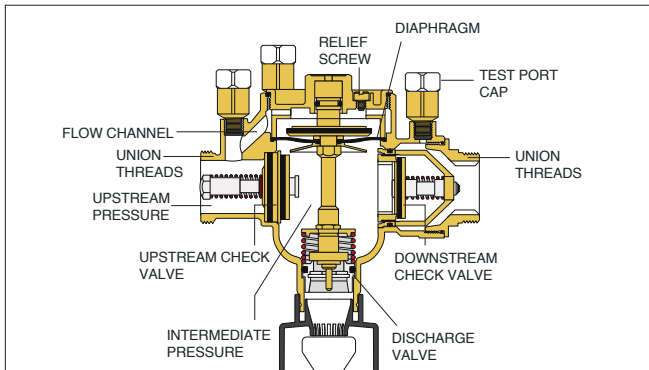


Testable reduced pressure zone backflow preventer.  
DZR low lead brass body.  
Max. working pressure: 150 psi.  
Max. working temperature: 150°F.

Code	Description	Lbs	USD
574801A	1 1/2" FNPT	14	887.00
574806A	1 1/2" press	14	1,006.00
59455*	Upstream check valve (1 1/2")	0.3	94.10
59456*	Downstream check valve (1 1/2")	0.6	94.10
59457*	Discharge valve assembly (1 1/2")	0.6	133.00
59458*	Valve seat (1 1/2")	0.2	45.40
NA11608**	incl. checks, disch valve, seat for (1 1/2")	1.4	367.00
39623*	Discharge air gap (3/4" to 2")	0.2	59.50
F0001901	Test port valve (1 1/4" to 2")	0.2	20.10

\*Replacement  
\*\*Rebuild kit

**Construction details 1 1/4" and 1 1/2" 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	1 1/4" FNPT	14	821.00
574706A	1 1/4" press	14	934.00
59455*	Upstream check valve (1 1/4")	0.3	94.10
59456*	Downstream check valve (1 1/4")	0.3	94.10
59457*	Discharge valve assembly (1 1/4")	0.6	133.00
59458*	Valve seat (1 1/4")	0.2	45.40
NA11607**	Incl. checks, disch valve, seat for (1 1/4")	1.4	367.00
39623*	Discharge air gap (3/4" to 2")	0.2	59.50
F0001901	Test port valve (1 1/4" to 2")	0.2	20.10

\*Replacement  
\*\*Rebuild kit

**574 RPZ Backflow Preventer**

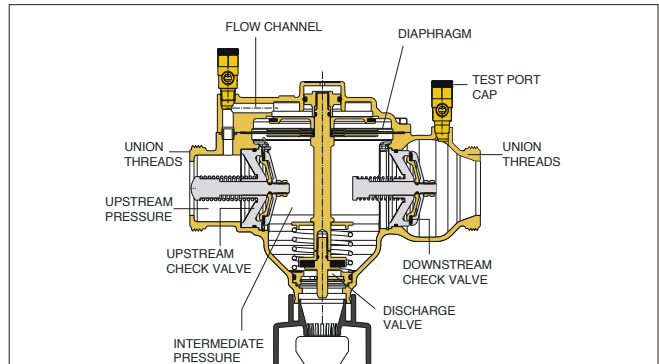


Testable reduced pressure zone backflow preventer.  
DZR low lead brass body.  
Max. working pressure: 150 psi.  
Max. working temperature: 150°F.

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 (3/4" to 2")	0.2	59.50
F0001901	Test port valve (1 1/4" 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**

2<sup>nd</sup> 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

2<sup>nd</sup> 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

2<sup>nd</sup> 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.

2<sup>nd</sup> 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

2<sup>nd</sup> QTR

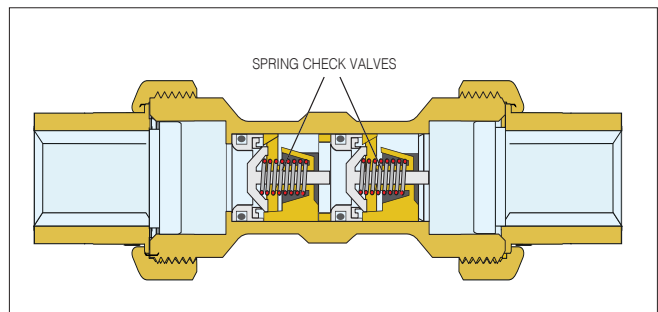


**3048 Dual Check Backflow Preventer press**

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.

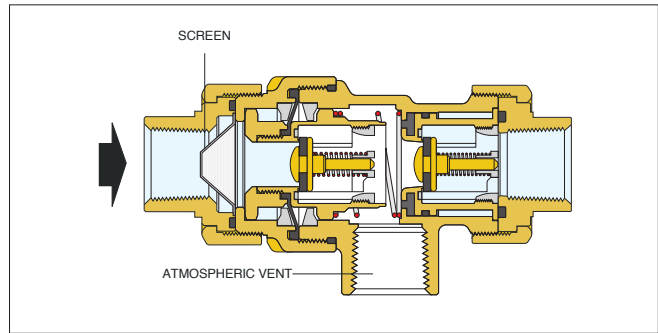
Max. working pressure: 175 psi.

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**



**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.

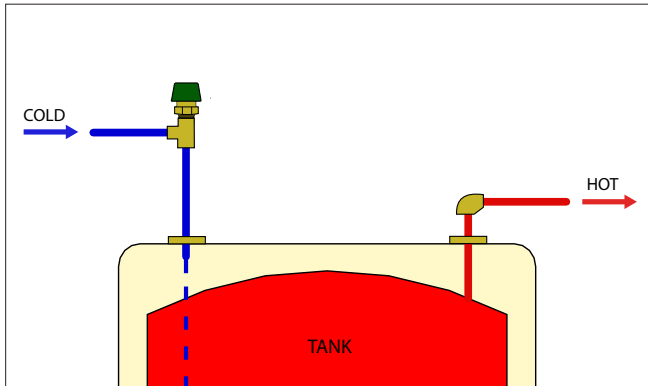
DZR low-lead brass body.

Max working pressure 160 psi.

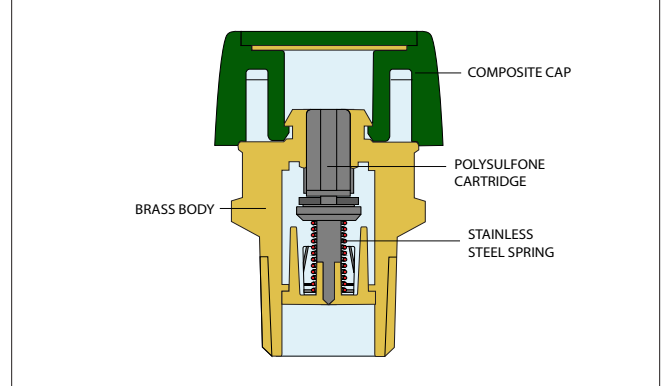
Operating temperature range 32° – 150°F.

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

**Application diagram**



**Construction details**



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

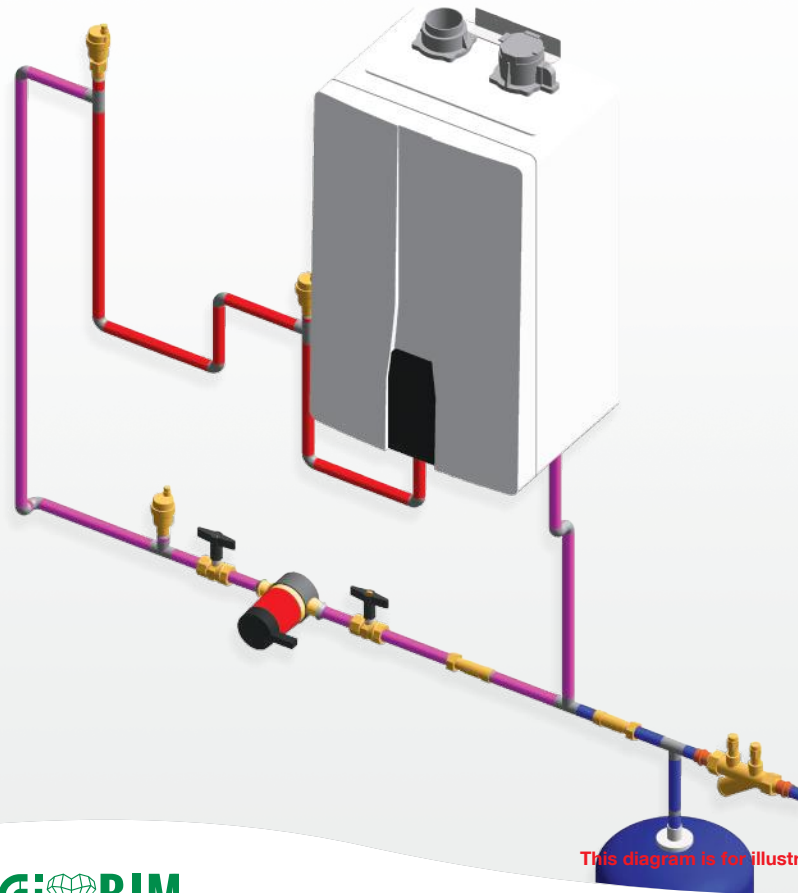
# PLUMBVENT™ LOW LEAD AIR VENT



**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.**



# PLUMBING MISCELLANEOUS COMPONENTS



This diagram is for illustration purposes only



 **BIM**  
bim.caleffi.com

## PRODUCTS INCLUDED IN SECTION

- 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



**UNION Y-STRAINERS FOR PLUMBING AND HYDRONICS**

**NEW**



**128 Y-strainer sweat**

Y-strainer with union connections. PT ports included. 1/2" 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 1/2" sweat, PT ports	1.3	<b>133.00</b>
128759A 000	Union strainer 3/4" sweat, PT ports	1.5	<b>136.00</b>
128769A 000	Union strainer 1" sweat, PT ports	1.7	<b>141.00</b>

**NEW**



**128 Y-strainer PEX**

Y-strainer with union connections. PT ports included. 1/2" 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 1/2" PEX crimp, PT ports	1.5	<b>137.00</b>
128754A 000	Union strainer 3/4" PEX crimp, PT ports	1.5	<b>141.00</b>
128764A 000	Union strainer 1" PEX crimp, PT ports	1.7	<b>143.00</b>
128742A 000	Union strainer 1/2" PEX expan., PT ports	1.5	<b>137.00</b>
128752A 000	Union strainer 3/4" PEX expan., PT ports	1.5	<b>141.00</b>
128762A 000	Union strainer 1" PEX expan., PT ports	1.7	<b>143.00</b>

**NEW**



**128 Y-strainer NPT**

Y-strainer with union connections. PT ports included. 1/2" FNPT plugged blowdown port. Max. working pressure: 400 psi. Temperature range: 32°–212°F. Max. percentage of glycol: 50%

Code	Description	Lbs	USD
128741A 000	Union strainer 1/2" NPT male, PT ports	1.5	<b>144.00</b>
128751A 000	Union strainer 3/4" NPT male, PT ports	1.5	<b>147.00</b>
128761A 000	Union strainer 1" NPT male, PT ports	1.7	<b>149.00</b>

**NEW**



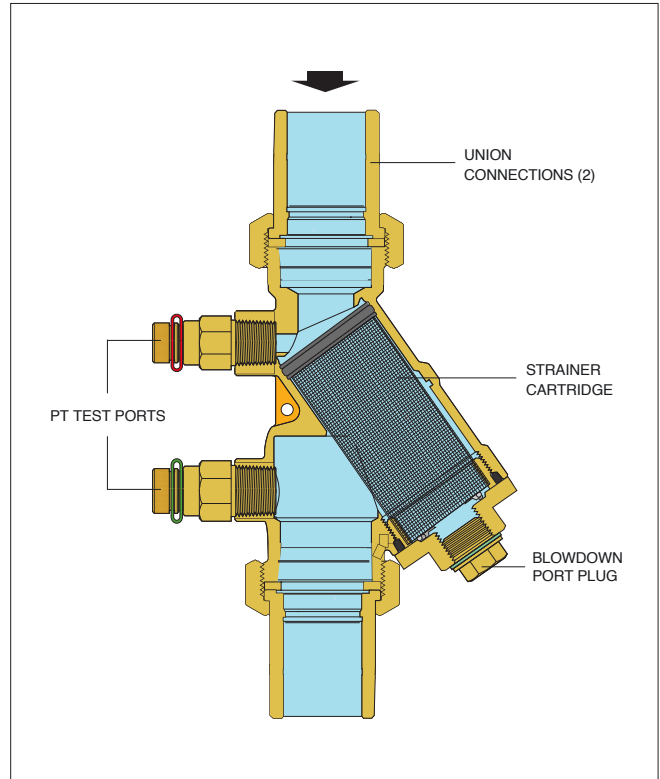
**128 Y-strainer press**

Y-strainer with union connections. PT ports included. 1/2" 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 1/2" press, PT ports	1.5	<b>153.00</b>
128756A 000	Union strainer 3/4" press, PT ports	1.5	<b>157.00</b>
128766A 000	Union strainer 1" press, PT ports	1.7	<b>166.00</b>

**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 1/2" purge valve can replace the plug for easy dirt blowdown.



**Y-STRAINER WITH BALL VALVE FOR HYDRONICS**

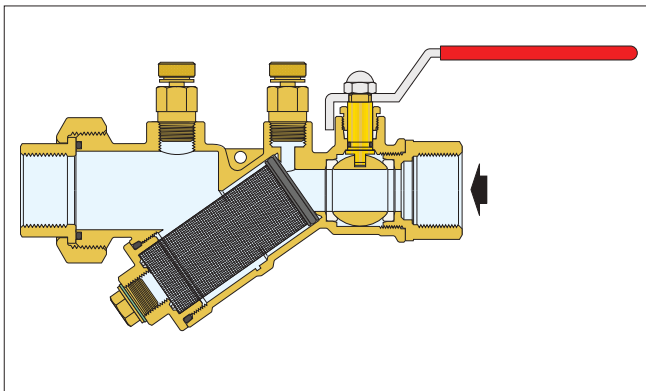


**120 Y-strainer**

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

**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
<b>538202 FD</b>	¼" NPT fits ½–¾" 120 Series	0.3	<b>15.20</b>
<b>538402 FD</b>	½" NPT fits 1–1¼" 120 Series	0.3	<b>15.60</b>



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
<b>100001A</b>	Standard size, 1½" length (pair)	0.5	<b>16.10</b>

**ISOLATION BALL VALVES**

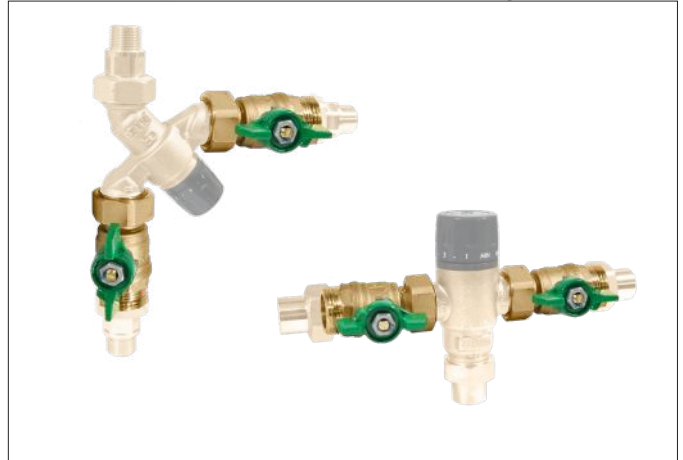


**290  
Isolation Valve**

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

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

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
<b>NA10824</b>	½" FNPT ball valve low lead	0.4	<b>38.40</b>
<b>NA10825</b>	¾" FNPT ball valve low lead	0.6	<b>47.10</b>
<b>NA10826</b>	1" FNPT ball valve low lead	1.0	<b>61.10</b>
<b>NA10827</b>	1¼" FNPT ball valve low lead	1.6	<b>102.00</b>
<b>NA10828</b>	1½" FNPT ball valve low lead	1.9	<b>129.00</b>
<b>NA10829</b>	2" FNPT ball valve low lead	3.0	<b>314.00</b>

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
<b>NA10834</b>	½" NPT nipple	0.1	<b>4.80</b>
<b>NA10835</b>	¾" NPT nipple	0.1	<b>7.60</b>
<b>NA10836</b>	1" NPT nipple	0.1	<b>11.90</b>
<b>NA10837</b>	1¼" NPT nipple	0.3	<b>20.60</b>
<b>NA10838</b>	1½" NPT nipple	0.3	<b>21.60</b>
<b>NA10839</b>	2" NPT nipple	0.5	<b>31.40</b>

**TANKLESS WATER HEATER SERVICE VALVE KIT**

2<sup>nd</sup> QTR

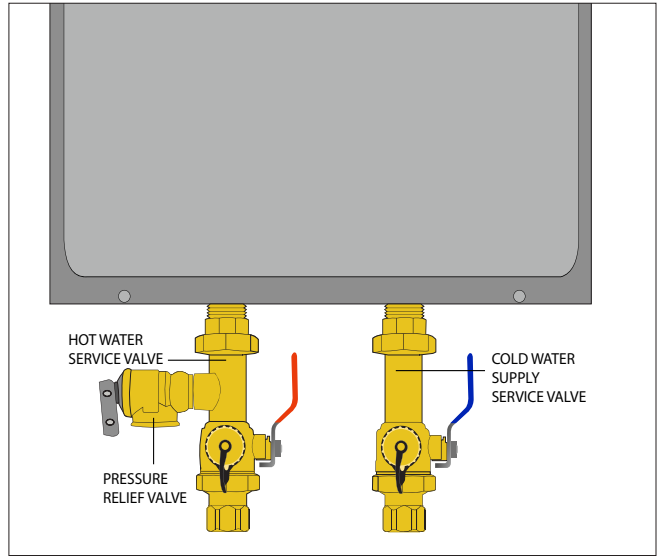


**290 Tankless Water Heater Service Valve Kit**

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.

2<sup>nd</sup> QTR

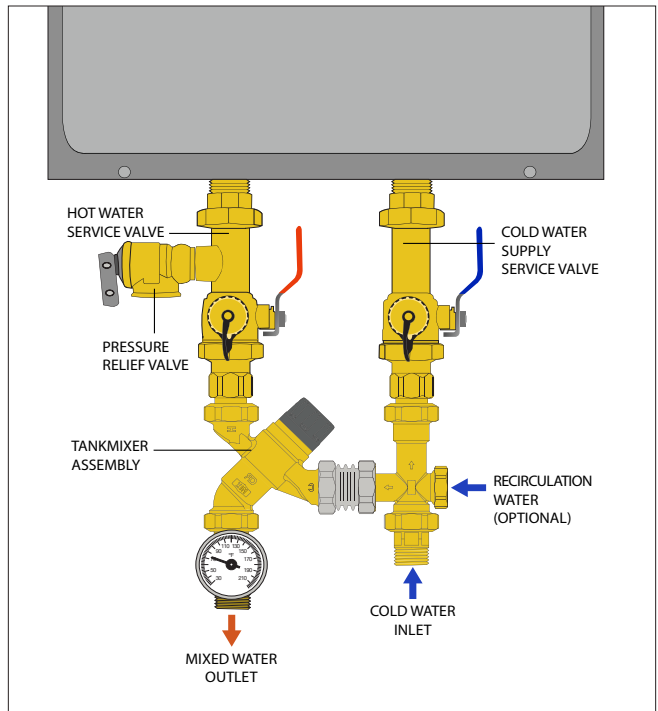


**290 Service Valve Kit with 520 TankMixer™**

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**



P4

**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
<b>NA51249</b>	½" sweat	17	0.4	<b>79.00</b>
<b>NA51259</b>	¾" sweat	17	0.4	<b>86.70</b>
<b>NA51369</b>	1" sweat	30	0.9	<b>123.00</b>
<b>NA51379</b>	1¼" sweat	30	1.1	<b>138.00</b>
<b>NA51489</b>	1½" sweat	75	2.4	<b>344.00</b>
<b>NA51499</b>	2" sweat	75	2.4	<b>366.00</b>



**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
<b>NA51240</b>	½" MNPT	17	0.4	<b>94.30</b>
<b>NA51250</b>	¾" MNPT	17	0.6	<b>99.50</b>
<b>NA51360</b>	1" MNPT	30	1.1	<b>130.00</b>
<b>NA51370</b>	1¼" MNPT	30	1.3	<b>143.00</b>
<b>NA51480</b>	1½" MNPT	75	2.6	<b>366.00</b>
<b>NA51490</b>	2" MNPT	75	2.6	<b>388.00</b>



**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
<b>NA51243</b>	½" FNPT	17	0.4	<b>107.00</b>
<b>NA51253</b>	¾" FNPT	17	0.6	<b>114.00</b>
<b>NA51363</b>	1" FNPT	30	1.1	<b>138.00</b>
<b>NA51373</b>	1¼" FNPT	30	1.3	<b>150.00</b>
<b>NA51493</b>	2" FNPT	75	2.6	<b>403.00</b>



**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
<b>NA51246</b>	½" press	17	0.4	<b>114.00</b>
<b>NA51256</b>	¾" press	17	0.6	<b>123.00</b>
<b>NA51366</b>	1" press	30	1.1	<b>178.00</b>
<b>NA51376</b>	1-¼" press	30	1.3	<b>209.00</b>
<b>NA51486</b>	1½" press	75	2.6	<b>451.00</b>
<b>NA51496</b>	2" press	75	2.6	<b>495.00</b>



**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
<b>NA51247</b>	½" PEX crimp	17	0.4	<b>86.70</b>
<b>NA51257</b>	¾" PEX crimp	17	0.6	<b>94.30</b>
<b>NA51248</b>	½" PEX expansion	17	0.4	<b>86.70</b>
<b>NA51258</b>	¾" PEX expansion	17	0.6	<b>94.30</b>



**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
<b>NA51200</b>	½", ¾" body, small	17	0.2	<b>56.00</b>
<b>NA51300</b>	1", 1¼" body, medium	30	0.5	<b>71.40</b>
<b>NA51400</b>	1½", 2" body, large	75	1.8	<b>186.00</b>



Replacement checks.

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



**AUTOMATIC AIR VENT FOR PLUMBING**



**NA5026  
PLUMBVENT™**

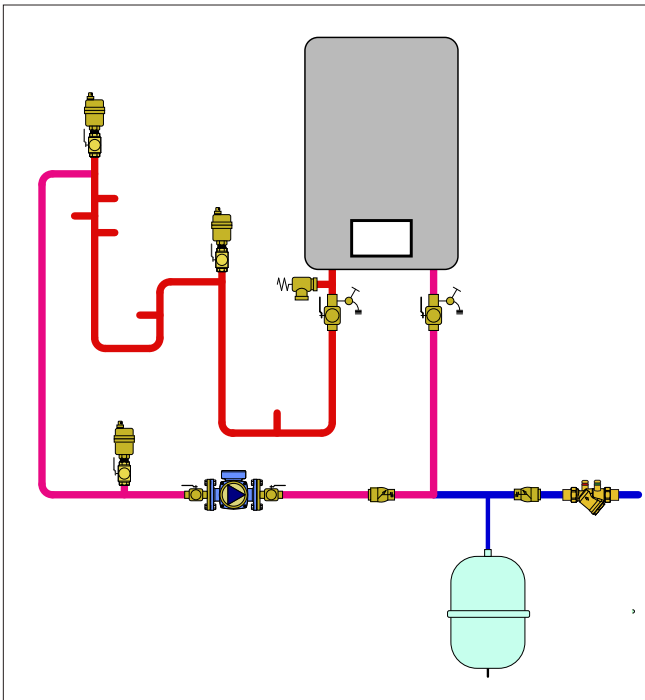
Automatic air vent with low lead brass body.  
 Compatible with plumbing systems.  
 Hygroscopic cap (anti-drip).  
 Max. working pressure: 150 psi.  
 Max. discharge pressure: 90 psi.  
 Max. discharge rate: 1.75 SCFM.  
 Max working temperature: 240°F.  
 Approval: NSF/ANSI/CAN 372 low lead.

**Function**

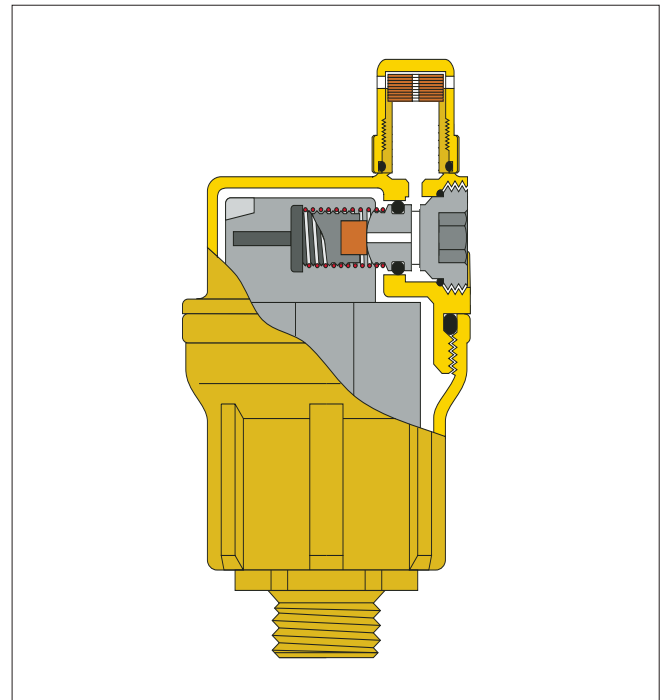
Float type automatic air vent designed to vent air from water at high points in plumbing system piping. Example applications include risers, domestic hot water storage tanks and recirculation system pump inlets. The automatic air vent is installed in the vertical position in parts of the system where 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
<b>NA502640A</b>	1/2" MNPT	0.6	<b>50.00</b>

**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.

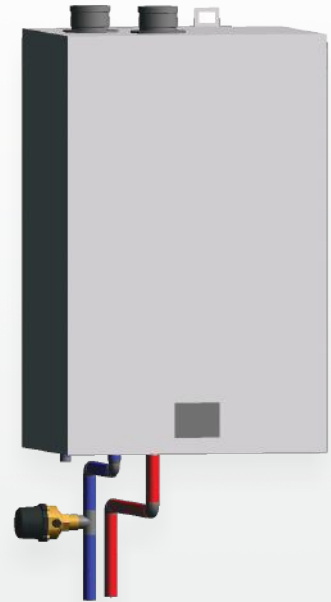
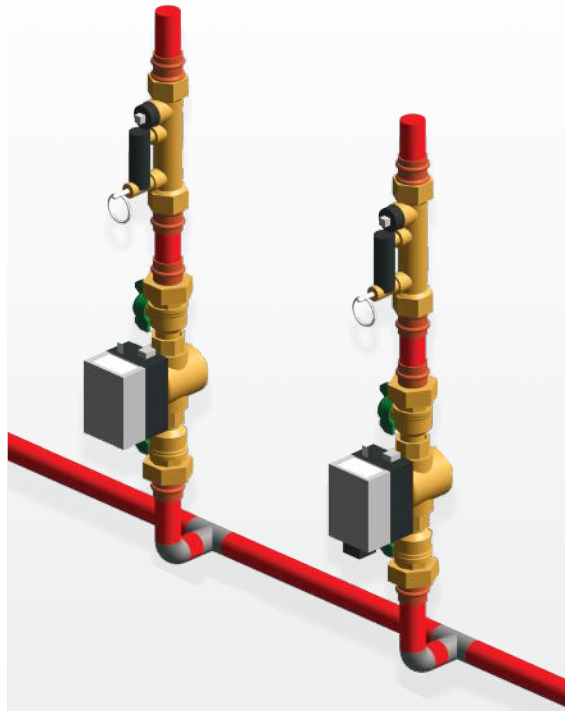
# FAST CONNECTIONS EASY & VERSATILE



**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**  
bim.caleffi.com

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

**FITTING CONFIGURATION TABLE**

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



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



Tail piece with check valve.  
Low lead brass.

Code	Description	Lbs	USD
59893A	1/2" NPT male fits 1" nut	0.2	<b>21.80</b>
59840A	3/4" NPT male fits 1" nut	0.3	<b>29.80</b>



Tail piece without check valve.  
Low lead brass.

Code	Description	Lbs	USD
R31981	1/2" NPT male fits 1" nut	0.3	<b>11.60</b>
31901A	3/4" NPT male fits 1" nut	0.4	<b>15.10</b>



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

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



Tail piece with check valve.  
Low lead brass.

Code	Description	Lbs	USD
59904A	1/2" sweat fits 1" nut	0.2	<b>19.00</b>
59905A	3/4" sweat for 1" nut	0.3	<b>26.60</b>



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

Code	Description	Lbs	USD
NA16264	1/2" press with 1" union nut	0.3	<b>17.60</b>
NA16265	3/4" press with 1" union nut	0.4	<b>19.40</b>
NA16266	1" press with 1" union nut	0.5	<b>34.50</b>



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

Code	Description	Lbs	USD
NA10864L	1/2" press with 1" union nut <b>NEW</b>	0.3	<b>17.10</b>
NA10864LC	1/2" press with 1" union nut/check valve <b>NEW</b>	0.3	<b>23.00</b>
NA16265L	3/4" long press with 1" union slip nut	0.3	<b>44.40</b>
NA16265LC	3/4" long press with 1" union nut/check valve	0.3	<b>56.20</b>
NA16266L	1" long press with 1" union slip nut	0.3	<b>66.30</b>
NA16266LC	1" long press with 1" union nut/check valve	0.3	<b>68.90</b>



Washer fits 1" union thread.

Code	Description	Lbs	USD
R20011	1" union washer	0.1	<b>1.60</b>



Tail piece.  
Low lead brass.

Code	Description	Lbs	USD
NA10002	1/2" sweat fits 1" nut	0.2	<b>8.40</b>
NA10003	3/4" sweat fits 1" nut	0.3	<b>11.60</b>



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

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



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

Code	Description	Lbs	USD
NA10164	1/2" sweat fits 1" nut	0.2	<b>26.30</b>
NA10165	3/4" sweat fits 1" nut	0.3	<b>30.70</b>



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	<b>50.30</b>



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

Code	Description	Lbs	USD
NA10419C	3/4" press long fits 1" slip nut w/check	0.3	<b>45.00</b>



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

Code	Description	Lbs	USD
NA10403	1/2" press fits 1" nut	0.1	<b>22.90</b>
NA10864	1/2" press long fits 1" nut <b>NEW</b>	0.1	<b>21.70</b>
NA10744	3/4" press fits 1" slip nut <b>NEW</b>	0.1	<b>16.50</b>
NA10419	3/4" press long fits 1" slip nut	0.3	<b>38.40</b>
NA10404	1" press fits 1" slip nut	0.4	<b>34.60</b>
NA10786	1" press long fits 1" slip nut	0.5	<b>58.40</b>

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



Union nut fits 1" union thread.

Code	Description	Lbs	USD
<b>F61008</b>	1" brass nut	0.2	<b>4.60</b>
<b>F0000698</b>	1" brass slip nut	0.2	<b>6.40</b>



Compression fitting.

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



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

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



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

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



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

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



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

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

**5231 AND 6000 SERIES MIXING VALVE FITTINGS**



press tail piece.  
Low lead brass.

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



Sweat tail piece.  
Low lead brass.

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



NPT male tailpiece.  
Low lead brass.

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



Union nut.

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

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



Washer.

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

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

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**PRESCAL™ PRESSURE REDUCING VALVE FITTINGS**



NPT female tailpieces with union nut and washer.

Code	Description	Lbs	USD
<b>F49644</b>	1/2" NPT female tailpiece with 3/4" union nut	0.4	<b>20.30</b>
<b>F49645</b>	3/4" NPT female tailpiece with 1" union nut	0.5	<b>23.00</b>
<b>F49646</b>	1" NPT female tailpiece with 1 1/4" union nut	0.6	<b>30.60</b>
<b>F49647</b>	1 1/4" NPT female tailpiece with 1 1/2" union nut	0.7	<b>51.00</b>
<b>F0000493</b>	1 1/2" NPT female tailpiece with 2" union nut	0.9	<b>91.70</b>
<b>F0000495</b>	2" NPT female tailpiece with 2 1/2" union nut	1.0	<b>109.00</b>



PEX expansion tailpieces (ASTM F1960) for union nut.

Code	Description	Lbs	USD
<b>F0001008</b>	3/4" PEX expansion tailpiece for 1" union nut	0.1	<b>11.60</b>
<b>NA10556</b>	1" PEX expansion tailpiece for 1 1/4" union nut	0.2	<b>15.20</b>



NPT male tailpieces for union nut.

Code	Description	Lbs	USD
<b>F31868</b>	1/2" NPT male tailpiece for 3/4" union nut	0.1	<b>12.20</b>
<b>31901A</b>	3/4" NPT male tailpiece for 1" union nut	0.1	<b>15.10</b>



PEX crimp tailpieces (ASTM F1807) for union nut.

Code	Description	Lbs	USD
<b>F0000520</b>	3/4" PEX crimp tailpiece for 1" union nut	0.1	<b>11.60</b>
<b>NA10496</b>	1" PEX crimp tailpiece for 1 1/4" union nut	0.2	<b>27.10</b>



Sweat tailpieces.

Code	Description	Lbs	USD
<b>NA10001</b>	1/2" sweat tailpiece for 3/4" union nut	0.1	<b>10.20</b>
<b>NA10003</b>	3/4" sweat tailpiece for 1" union nut	0.2	<b>11.60</b>
<b>F49657*</b>	1" sweat tailpiece with 1 1/4" nut	0.4	<b>20.30</b>
<b>41787 CST</b>	1 1/4" sweat tailpiece for 1 1/2" union nut	0.3	<b>35.80</b>
<b>F0000494*</b>	1 1/2" sweat tailpiece with 2" union nut	0.7	<b>68.90</b>
<b>F0000496*</b>	2" sweat tailpiece with 2 1/2" union nut	0.8	<b>94.30</b>

\*With washer



Union nut.

Code	Description	Lbs	USD
<b>F41186</b>	3/4" union nut for 1/2" 535H	0.1	<b>3.80</b>
<b>F61008</b>	1" union nut for 3/4" 535H	0.2	<b>4.60</b>
<b>R0000915</b>	1" slip union nut for 3/4" 535H	0.2	<b>4.60</b>
<b>R31495</b>	1 1/4" union nut for 1" 535H	0.3	<b>7.60</b>
<b>R11222</b>	1 1/4" slip nut for 1" 535H	0.3	<b>7.60</b>
<b>R31589</b>	1 1/2" union nut for 1-1/4" 535H	0.4	<b>15.60</b>
<b>R53003</b>	2" union nut for 1-1/2" 535H	0.4	<b>31.00</b>
<b>R51838</b>	2 1/2" union nut for 2" 535H	0.5	<b>38.10</b>



press tailpieces.

Code	Description	Lbs	USD
<b>NA16265</b>	3/4" press with 1" union nut	0.2	<b>19.40</b>
<b>NA10497</b>	1" press tailpiece with 1 1/4" union nut	0.4	<b>38.20</b>
<b>NA10707</b>	1 1/4" press tailpiece for 1 1/2" union nut	0.6	<b>84.20</b>
<b>NA10715</b>	1 1/2" press tailpiece with 2" union nut	0.8	<b>167.00</b>
<b>NA10709</b>	2" press tailpiece with 2 1/2" union nut	0.9	<b>214.00</b>
<b>NA10744</b>	3/4" press tailpiece for 1" nut <b>NEW</b>	0.2	<b>16.50</b>
<b>NA10747</b>	1" press tailpiece for 1 1/4" slip nut <b>NEW</b>	0.4	<b>22.80</b>
<b>NA10809</b>	1/2" press tailpiece for 3/4" nut <b>NEW</b>	0.2	<b>16.50</b>



Union washers.

Code	Description	Lbs	USD
<b>R0001458</b>	3/4" union washer for 1/2" 535H	0.1	<b>1.50</b>
<b>R20011</b>	1" union washer for 3/4" 535H	0.1	<b>1.60</b>
<b>R0001454</b>	1-1/4" union washer 1" 535H	0.1	<b>2.50</b>
<b>R0001457</b>	1 1/2" union washer for 1 1/4" 535H	0.1	<b>3.60</b>
<b>R0001459</b>	2" union washer for 1 1/2" 535H	0.1	<b>6.90</b>
<b>R0001460</b>	2 1/2" union washer for 2" 535H	0.1	<b>17.00</b>

**AUTOFILL™ FITTINGS**



AutoFill™ union nut.

Code	Description	Lbs	USD
<b>F41186</b>	¾" union nut	0.1	<b>3.00</b>



AutoFill™ tail piece.

Code	Description	Lbs	USD
<b>NA10001</b>	½" sweat	0.3	<b>9.40</b>



AutoFill™ tail piece.

Code	Description	Lbs	USD
<b>F31868</b>	½" NPT male	0.1	<b>11.20</b>



AutoFill™ washer.

Code	Description	Lbs	USD
<b>R0001458</b>	¾" union washer	0.1	<b>1.40</b>

**BACKFLOW PREVENTER FITTINGS**



Tail piece with screen fits 573 backflow preventer.

Code	Description	Lbs	USD
<b>R0000892</b>	½" NPT female, outlet	0.1	<b>15.20</b>
<b>R0001393</b>	½" NPT female, inlet	0.1	<b>7.30</b>



Tail piece fits 573 backflow preventer.

Code	Description	Lbs	USD
<b>41380A</b>	½" sweat	0.1	<b>14.50</b>



Washer union fits 573 backflow preventer.

Code	Description	Lbs	USD
<b>R0001622</b>	Union washer	0.1	<b>3.50</b>

**SEPARATOR FITTINGS**



Tail piece for steel 548, 5495, 5461.

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



Tail piece for steel 548, 5495, 5461.

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



Press tail piece for steel 548, 5495, 5461.

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



Union nut for steel 548, 5495, 5461.

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



Union washer for steel 548, 5495, 5461.

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

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**FITTINGS WITH 3/4" THREADS**



Union nut.

Code	Description	Lbs	USD
<b>F41186</b>	3/4" union nut	0.1	<b>3.00</b>

**FITTINGS WITH 1" THREADS**



Double nipple.

Code	Description	Lbs	USD
<b>NA12173</b>	1" NPT x 1" NPT	0.4	<b>27.40</b>



Sweat adapter.

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



Union nut fits 1" union thread.

Code	Description	Lbs	USD
<b>F61008</b>	1" brass nut	0.2	<b>4.60</b>
<b>F0000698</b>	1" brass slip nut	0.2	<b>6.40</b>



Nipple.

Code	Description	Lbs	USD
<b>NA12162</b>	3/4" male w/ O-ring x 1" male thread	0.2	<b>25.30</b>



Nipple.

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

**FITTINGS WITH 1 1/4" THREADS**



Sweat adapter.

Code	Description	Lbs	USD
<b>NA10119</b>	1" sweat adapter x 1 1/4" union thread	0.4	<b>30.20</b>



Bushing.

Code	Description	Lbs	USD
<b>NA10087</b>	1" female x 1 1/4" male thread bushing	0.4	<b>22.10</b>



Bushing.

Code	Description	Lbs	USD
<b>61215A</b>	1" NPT F x 1 1/4" M thread bushing	0.8	<b>22.00</b>



Nipple.

Code	Description	Lbs	USD
<b>R31706</b>	1" male x 1 1/4" male nipple	0.3	<b>27.40</b>



Union nut.

Code	Description	Lbs	USD
<b>R31495</b>	1 1/4" union nut	0.1	<b>7.60</b>



Washer.

Code	Description	Lbs	USD
<b>R0001454</b>	1 1/4" washer	0.1	<b>2.50</b>



**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	<b>134.00</b>
519566A	¾" press union	1.0	<b>152.00</b>
519599A	¾" sweat union	1.0	<b>133.00</b>
519600A	1" FNPT in, 1" NPT male union out	1.4	<b>210.00</b>
519609A	1" FNPT in, 1" sweat union out	1.4	<b>210.00</b>
519700A	1¼" FNPT in, 1¼" NPT male union out	1.5	<b>252.00</b>
519709A	1¼" FNPT in, 1¼" sweat union out	1.5	<b>252.00</b>

**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	<b>263.00</b>
626009	Replacement paddle assembly*	0.1	<b>24.60</b>

\* 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	<b>10.30</b>



**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	<b>76.50</b>



**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	<b>15.20</b>
538402 FD	½" NPT male x ¾" GHT	0.3	<b>15.60</b>



**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	<b>38.10</b>

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# LIMITED WARRANTY

**COVERAGE:** Caleffi North America Inc. ("WARRANTOR") warrants that each Caleffi PRODUCT will be free from defects in material and workmanship for a period of two years\* from the date of shipment/delivery of the PRODUCT (that can be identified by the "Caleffi" trademark, trade name, or logo affixed to them). The Limited Warranty is referred to herein as "the Limited warranty." The PURCHASER's sole and exclusive remedy under this Limited Warranty for defects in the PRODUCT shall be the repair, replacement or refund of the purchase price, in WARRANTOR's sole discretion, of the defective PRODUCT, or components thereof.

**\*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;
- Any PRODUCT purchased from any entity other than WARRANTOR;
- 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.

**PROCEDURE:** Upon delivery, PURCHASER shall, within one (3) business day, inspect the PRODUCT for conformity and visible defects. PURCHASER shall give WARRANTOR immediate written, specific and detailed notice of any non-conformities or defects regarding the PRODUCT. Upon receipt of the written notice of claim, WARRANTOR shall have the right to inspect the PRODUCT. In the event of a defect covered by this Limited Warranty, WARRANTOR will, at WARRANTOR's discretion, repair or replace the PRODUCT or any component of the PRODUCT or refund the purchase price for that particular PRODUCT. In the event that PURCHASER submits a warranty claim that, in the sole reasonable discretion of the WARRANTOR, is unfounded, the PURCHASER shall reimburse the WARRANTOR all reasonable costs incurred by the WARRANTOR in evaluating the warranty claim (i.e. travel, lodging, expert evaluations, etc.). WARRANTOR must approve, in advance and in writing, all repairs or replacements covered under or performed pursuant to this Limited Warranty. Any warranty repairs or service must be performed exclusively by WARRANTOR or other authorized representative of WARRANTOR or by another servicing facility pre-approved in writing by WARRANTOR. Acceptance of any Limited Warranty claim is not an admission that any PRODUCT or any of its component parts are defective. The PURCHASER forfeits any rights it may have under this Limited Warranty if the PURCHASER does not follow the procedure described herein.

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

**LIMITATION OF DAMAGES:** Except as expressly provided by this Limited Warranty, **WARRANTOR SHALL NOT BE RESPONSIBLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES ASSOCIATED WITH THE USE OR NON-USE OF THE PRODUCT OR A CLAIM UNDER THIS LIMITED WARRANTY, WHETHER THE CLAIM IS BASED ON CONTRACT, TORT OR OTHERWISE.** The foregoing statements of warranty are exclusive and in lieu of all other remedies or damages. Some states do not allow the exclusion or limitation of incidental or consequential damages, so only in this case this limitation or exclusion may not apply to you.

This Limited Warranty shall be the sole and exclusive remedy available to the PURCHASER with respect to this PRODUCT. In the event of any alleged breach of any warranty or any legal action brought by the PURCHASER, based on breach of warranty, alleged negligence or other tortious conduct by WARRANTOR, the PURCHASER's sole and exclusive remedy will be the repair or replacement of any defective PRODUCT as stated herein. In no event shall the liability of the WARRANTOR exceed the purchase price of the PRODUCT.

**DISCLAIMER: ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE AND ALL IMPLIED WARRANTIES ARISING FROM A COURSE OF DEALING, USAGE OF TRADE, BY STATUTE OR OTHERWISE, IS HEREBY STRICTLY LIMITED TO THE TERM OF THIS WRITTEN WARRANTY.** This Limited Warranty shall be the sole and exclusive remedy available to the PURCHASER with respect to this PRODUCT. In the event of any alleged breach of any warranty or any legal action brought by the PURCHASER based on alleged negligence or other tortious conduct by WARRANTOR, the PURCHASER'S sole and exclusive remedy will be repair or replacement of defective materials or refund of the purchase price, as stated herein.

**TRANSFER OF LIMITED WARRANTY:** This warranty is made by WARRANTOR with only first PURCHASER of the PRODUCT and does not extend to any subsequent PURCHASER or any third parties. The unexpired portion of this Limited Warranty may not be transferred to any entity.

**APPLICABLE LAW:** The parties expressly acknowledge and irrevocably agree that any and all claims or disputes arising out of or otherwise relating to this Limited Warranty shall be decided by a binding arbitration administered by the American Arbitration Association pursuant to Commercial Industry Rules in effect as of the date of this Limited Warranty, to the exclusion of any courts of any place, except as necessary for the enforcement of arbitration rights. The place for any such arbitration shall be The State of Wisconsin. PURCHASER expressly waives any provision of law in the jurisdiction in which PURCHASER is located or any other potentially applicable law which conflicts with any provision of this Limited Warranty at any time.

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**ENTIRE AGREEMENT:** This document alone contains the entire Limited Warranty given by WARRANTOR in respect of the PRODUCT. Nothing in WARRANTOR's product literature, marketing materials, advertisements and technical specifications expand or enlarge the scope of this Limited Warranty. There are no terms, promises, conditions or warranties regarding the PRODUCT other than those expressly contained herein. WARRANTOR specifically does not authorize any person, including but not limited to any dealer or other agent or employee of WARRANTOR, to extend the time, scope, terms or conditions of this Limited Warranty or to create or assume for WARRANTOR any other obligation or liability with respect to the PRODUCT or other products designed, manufactured or sold by WARRANTOR. All terms of this Limited Warranty are contractual and not mere recitals, and constitute material terms of this Limited Warranty. It is agreed and acknowledged that the provisions of this Limited Warranty allocate the risks between WARRANTOR and PURCHASER, that WARRANTOR's pricing reflects this allocation of risk, and but for this allocation and limitation of liability, WARRANTOR would not have entered into this Limited Warranty. The agents, employees, and dealers of Caleffi Products are not authorized to make modifications to this limited warranty or make additional warranties binding on Caleffi.

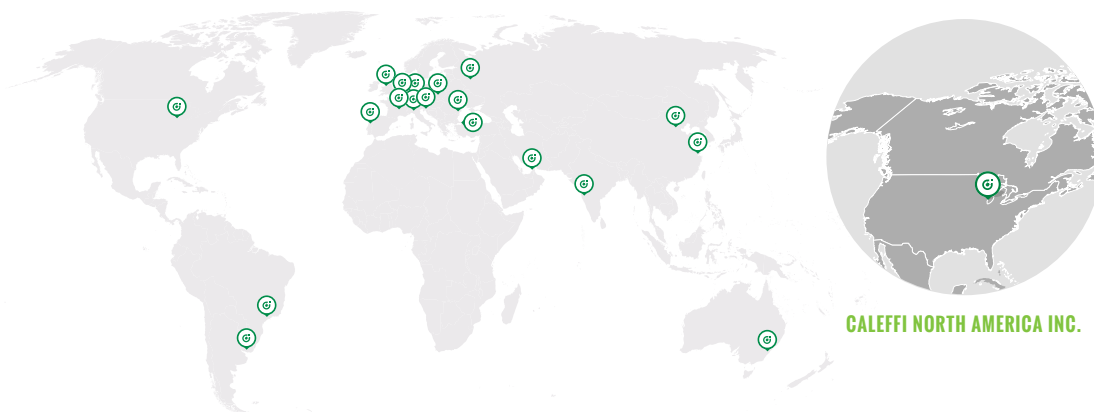
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