VesiPEX

Versatility, Reliability & Flexibility

VESIPRO / VESIPRO XL
STAINLESS STEEL RADIANT MANIFOLD
INSTALLATION GUIDE

Included Components

Supply and Return Ball Valves (NPT Connection)

Air Vent and Drain Port with Shutoff

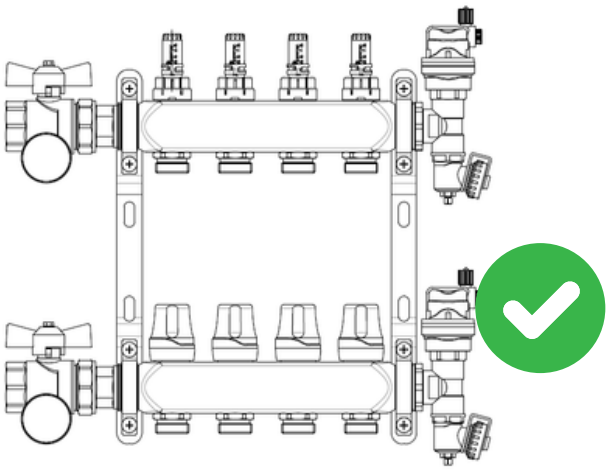
Manifold Supply and Return Trunk with Adjustable Flow Gauge and Shutoff Knobs

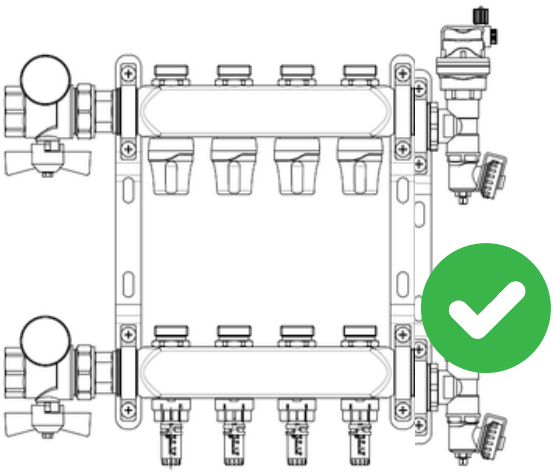
Manifold Mounting Bracket (Pair)

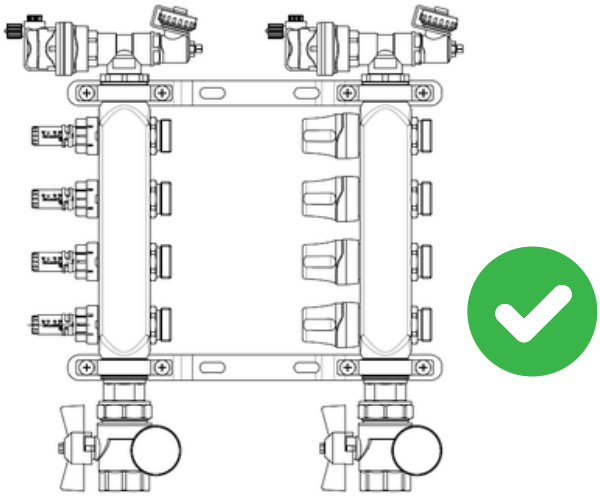
Flanged Philips Head Mounting Screws and Anchors (Qty: 4)

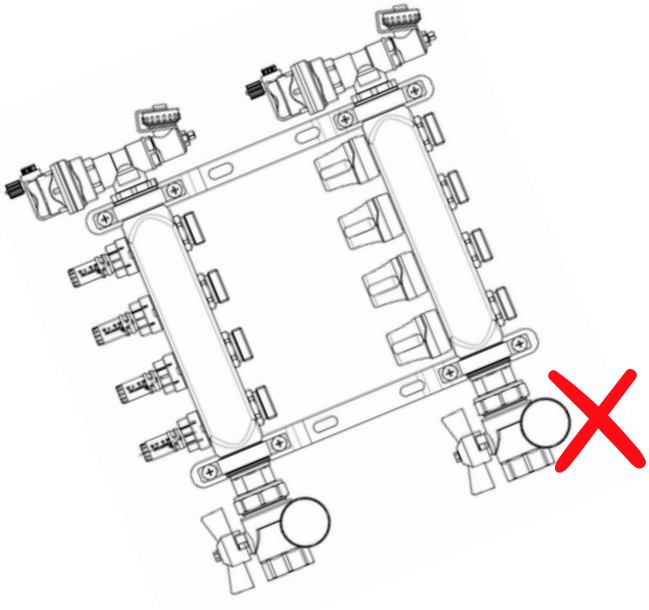
Manifolds are compatible with 3/8", 1/2", 5/8" and 3/4" R-20 adapters. Adapters are not included with the manifold and must be installed separately

Mounting









1. VesiPro and VesiPro XL manifolds shall be mounted with factory supplied screws into stud or concrete. In the event that screws must be replaced, use 10-12 gauge and length 2”
2. When mounting use a level to avoid tension on PEX connector threads
3. When mounting inverted, rotate return trunk air vent to ensure bubbles can vacate
4. Supply and return trunk positions may be swapped to suit site conditions

PEX Connection

Step 1:

Make a clean straight cut perpendicular to the tubing as close to 90 degrees as possible.

Note: Please use a PEX tubing cutter which is specifically designed to cut PEX smoothly. Do not use reciprocating cutting tools like saws, as the uneven tubing ends may cause leaks.

Step 2:

When connecting a manifold with a compression adapter, the fitting body should be installed and pushed into the manifold connection first.

Step 3:

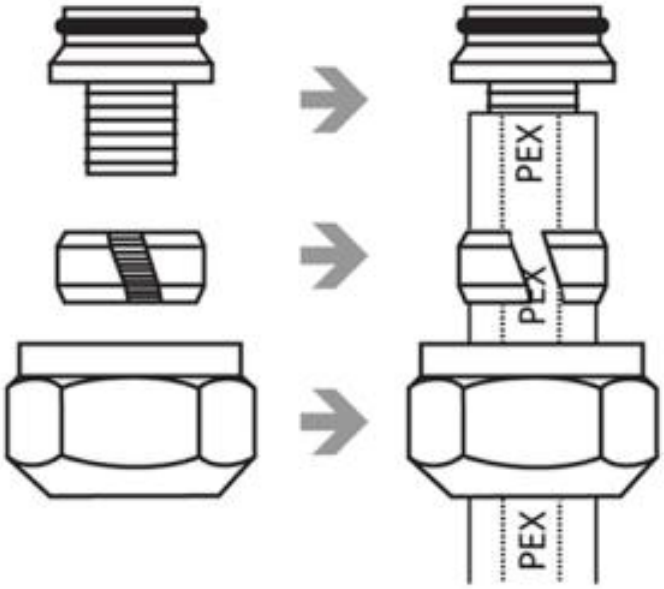
Ensure that the nut and compression ring are properly placed on the tubing before connecting tubing. Then ensure the tubing is pushed all the way into the fitting.

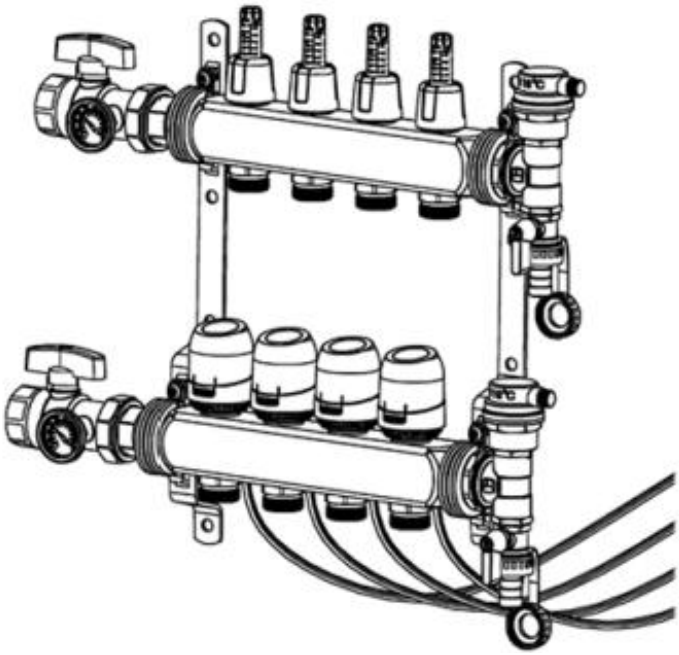
Step 4:

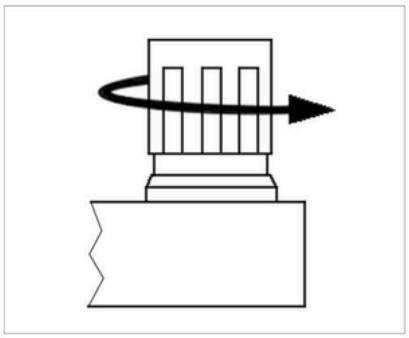
Use a wrench to tighten the fitting.

Note: Do not over-tighten the compression adapter or over-twist the tube.

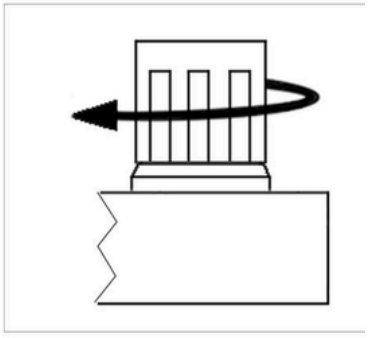
Adapter Connection



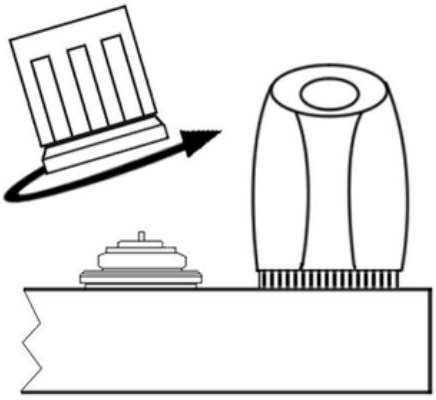




Turn gate valve counter-clockwise to OPEN the valve

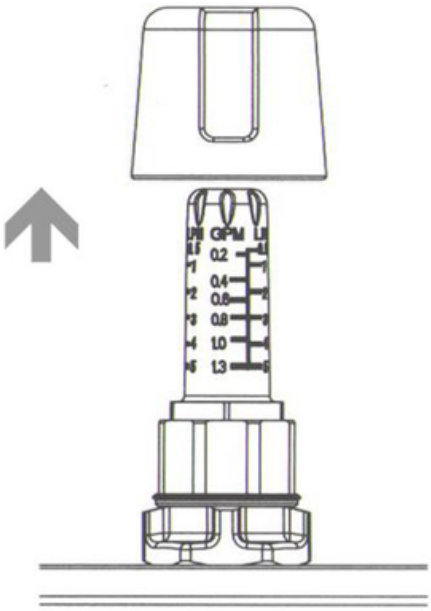


Turn gate valve clockwise to CLOSE the valve

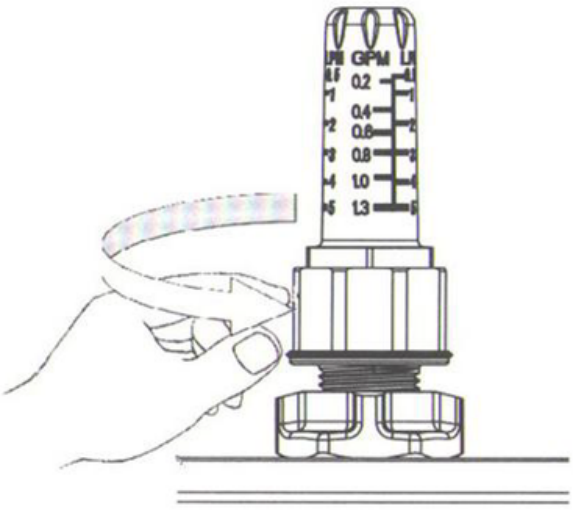


1. Place R-20 nut onto PEX tubing
2. Place split ring onto PEX tubing ensuring snug fit
3. Push PEX tubing fully onto barb
4. If a thermal actuator is used for zone control, VesiPro and VesiPro XL manifolds are compatible with all 2-wire or 4-wire actuators with M30 thread

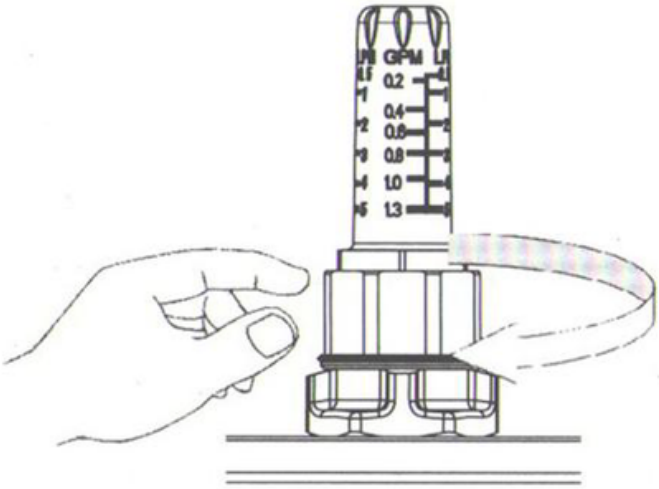
Flow Meter Adjustment



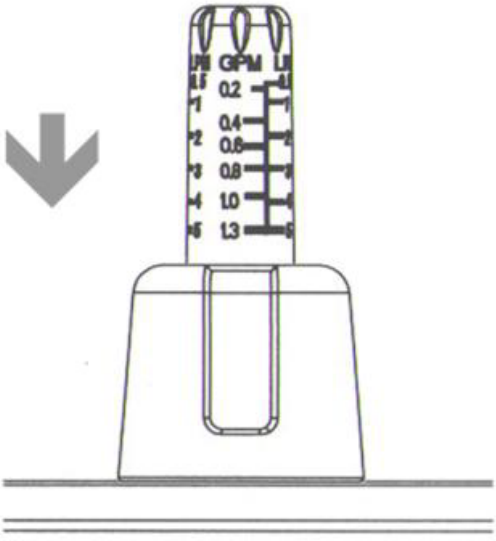
Remove red cap



Turn counter clockwise to increase flow rate



Turn clockwise to increase flow rate



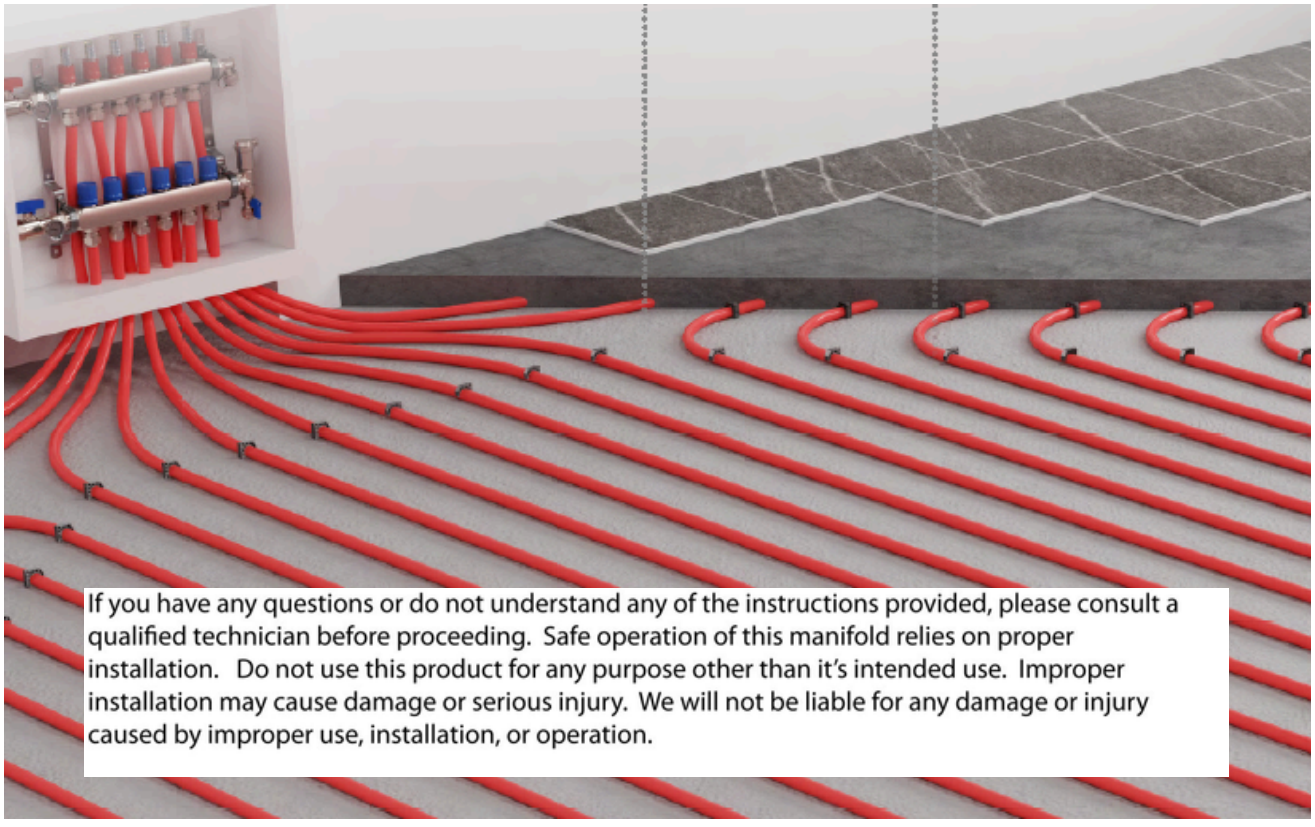
Replace red cap

Warning: Do not turn plastic sight indicator to adjust flow rate. Do not adjust more than 3 full turns counter clockwise

Pressure Testing

Pressure testing your radiant system and manifold assembly to take the following steps

1. Connect and tighten all PEX tubing lines
2. Hook up and close air purge valves
3. Connect pressure test kit to supply trunk
4. Pressurize to 2x operating static pressure (typically 30 psi)
5. Do not exceed 40 psi
6. Leave pressure applied for minimum 3 hours, with preference up to 24 hours and overnight
7. Check pressure drop. A pressure drop of 5-10 psi may be due to atmospheric or temperature changes
8. A drop to 0 psi indicates a leak in the system



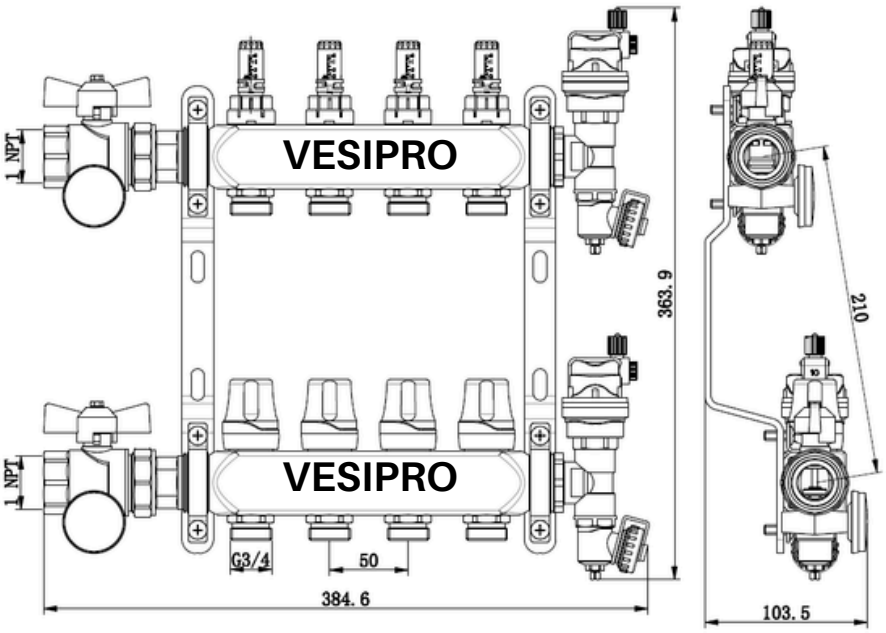
If you have any questions or do not understand any of the instructions provided, please consult a qualified technician before proceeding. Safe operation of this manifold relies on proper installation. Do not use this product for any purpose other than it's intended use. Improper installation may cause damage or serious injury. We will not be liable for any damage or injury caused by improper use, installation, or operation.

Submittal
VesiPro VP100
1" Stainless Steel Manifold

VesiPEX
Versatility, Reliability & Flexibility

JOB	ENGINEER	CONTRACTOR	REP	NOTES/QUANTITY
ORDER NUMBER	**SUBMITTED BY**	**APPROVED BY**		

VesiPro packaged radiant heating manifolds are produced of high quality 304 Stainless Steel for long service life. Supply and Return isolation ball valves are NPT connection for easy connection to building systems and a union connection to the trunk allows for precise mounting. All manifold accessories are modular including ball valves, filling, purging and venting end pieces. All manifolds come with flow meters with integrated shut off stems providing positive shut off for loop isolation during charging and testing. The unit is designed for residential or commercial applications and can be installed in wall or in a manifold box. All manifolds are pressure tested after assembly.



Parameter	.	Value
Flow Rate per Zone		0-1.5 GPM
Maximum Operating Pressure		145 psi
Maximum Operating Temperature		158F
Minimum Install Temperature		4F
Pex Connection		3/4" R-20 / G3/4
Flow Meter Material		Temperature Resistant GFR-EP
Pex Adapters		Hot-Forged Brass Ms58 -Ni Plated
O-Ring Seals		CPDM Elastomers
Valve Seats		PTFE

NOTES:

When using loop cap, ensure gasket is in place to prevent leakage

Adjust loop flow from flow meter on supply trunk

Cap on return trunk is for shut off purposes only

Approved materials: 100% Water, <=50% Propylene Glycol, <=50% Ethylene Glycol

Loops	**2**	**3**	**4**	**5**	**6**	**7**	**8**	9	**10**	**11**	**12**
Length (cm)	28.5	33.5	38.5	43.5	48.5	53.5	58.5	63.5	68.5	73.5	78.5

Standards and Approvals

CSA B137.5 ASTM F877

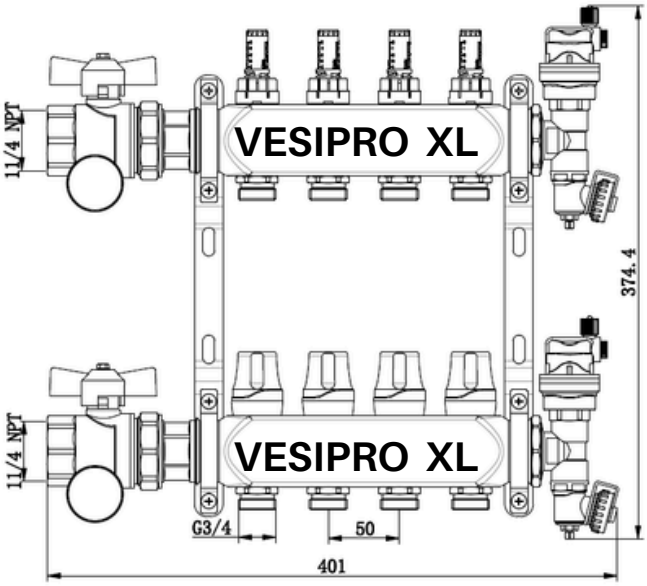
www.vesipex.com

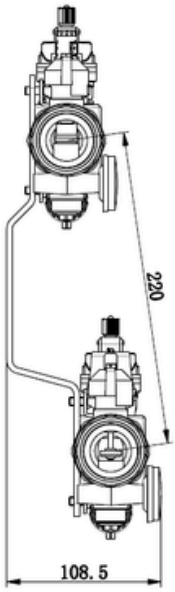
Submittal
VesiPro VP125
1.25" Stainless Steel Manifold

VesiPEX
Versatility, Reliability & Flexibility

JOB	ENGINEER	CONTRACTOR	REP	NOTES/QUANTITY
ORDER NUMBER	**SUBMITTED BY**	**APPROVED BY**		

VesiPro XL packaged radiant heating manifolds are produced of high quality 304 Stainless Steel for long service life. Supply and Return isolation ball valves are NPT connection for easy connection to building systems and a union connection to the trunk allows for precise mounting. All manifold accessories are modular including ball valves, filling, purging and venting end pieces. All manifolds come with flow meters with integrated shut off stems providing positive shut off for loop isolation during charging and testing. The unit is designed for residential or commercial applications and can be installed in wall or in a manifold box. All manifolds are pressure tested after assembly.





Parameter	.	Value
Flow Rate per Zone		0-1.5 GPM
Maximum Operating Pressure		145 psi
Maximum Operating Temperature		158F
Minimum Install Temperature		4F
Pex Connection		3/4" R-20 / G3/4
Flow Meter Material		Temperature Resistant GFR-EP
Pex Adapters		Hot-Forged Brass Ms58 -Ni Plated
O-Ring Seals		CPDM Elastomers
Valve Seats		PTFE

NOTES:
When using loop cap, ensure gasket is in place to prevent leakage
Adjust loop flow from flow meter on supply trunk
Cap on return trunk is for shut off purposes only
Approved materials: 100% Water, <=50% Propylene Glycol, <=50% Ethylene Glycol

Loops	**2**	**3**	**4**	**5**	**6**	**7**	**8**	9	**10**	**11**	**12**
Length (cm)	30.1	35.1	40.1	45.1	50.1	55.1	60.1	65.1	70.1	75.1	80.1

Standards and Approvals
CSA B137.5 ASTM F877

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