

Heating and Cooling Solutions



4.1



Heating and Cooling Solutions

Radiant heating systems have been around since 10,000 B.C., but Viega has made them more efficient, reliable and easier to install. Viega offers a full line of prefabricated Climate Mats for wet installs, panels for dry installs, tubing, manifolds, mixing options and controls all engineered to work together. Radiant heating and cooling solutions can reduce energy costs by up to 30% for both residential and commercial buildings. Our hands-on design team can provide you with a complete design and bill of materials, so you know you have everything you need for a properly functioning system.

FEATURES AND BENEFITS

- Faster and easier than traditional radiant installation
- Typically reduces energy costs from 10-30%
- Minimizes circulation of dust, allergens and airborne contaminants
- Proven press technology helps to ensure secure connections
- Backed by a 30-year warranty on Viega Barrier PEX, PureFlow Press metal and polymer fittings
- Technical support
- Design and layout services

NOTE

Products within this section meet various codes, standards, listings and certifications. Please refer to the most up-to-date Tech Data sheets relevant to the product or to the listing agency's official record. A green dot on a Viega PureFlow Press polymer fitting indicates Smart Connect technology.

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Tubing



Viega Barrier PEX tubing

- Coil
- Oxygen diffusion barrier, protective outer layer

Technical Data

PEX designation code 5306
 Chlorine resistance ratings CL5
 UV resistance 6 months
 ASTM F876, ASTM F877, ASTM F3253, NSF 61

Model 2802US

d	L [ft]	Version	Wt [lb]	Quantity	Part No	DG
5/16	250	black with stripe	9.000	1	11400	4
5/16	1000	black with stripe	34.000	1	11405	4
3/8	300	black with stripe	12.900	1	11415	4
3/8	1200	black with stripe	51.600	1	11418	4
1/2	250	black with stripe	10.750	1	11428	4
1/2	300	black with stripe	17.100	1	11425	4
1/2	400	black with stripe	23.200	1	11430	4
1/2	500	black with stripe	29.000	1	11427	4
1/2	1000	black with stripe	58.000	1	11436	4
1/2	1200	black with stripe	68.400	1	11435	4
1/2	2000	black with stripe	112.000	1	11440	4
5/8	500	black with stripe	39.500	1	11445	4
5/8	1500	black with stripe	118.500	1	11450	4
3/4	150	black with stripe	16.050	1	11455	4
3/4	300	black with stripe	32.400	1	11457	4
3/4	500	black with stripe	56.500	1	11458	4
3/4	800	black with stripe	86.400	1	11460	4
3/4	1000	black with stripe	108.000	1	11462	4
1	150	black with stripe	27.000	1	11465	4
1	500	black with stripe	88.000	1	11470	4
1 1/4	100	black with stripe	27.000	1	11475	4
1 1/2	100	black with stripe	36.500	1	11480	4
2	100	black with stripe	60.300	1	11485	4



Viega Barrier PEX tubing

- Straight length
- Oxygen diffusion barrier, protective outer layer

Technical Data

PEX designation code 5306
 Chlorine resistance ratings CL5
 UV resistance 6 months
 ASTM F876, ASTM F877, ASTM F3253, NSF 61

Model 2803US

d	L [ft]	Version	Wt [lb]	Quantity	Part No	DG
3/4	20	black with stripe	2.100	25	11500	4
1	20	black with stripe	3.500	15	11505	4
1 1/4	20	black with stripe	5.280	10	11510	4
1 1/2	20	black with stripe	7.400	5	11515	4
2	20	black with stripe	12.280	5	11520	4



Zip tie

- Plastic
- Model 2866US**


L [in]	Version	Wt [lb]	Quantity	Part No	DG
8.7	yellow	0.003	100	15304	4



U-channel fastener


- Plastic
 - Pre-drilled holes
- Model 2864US**

W [in]	L [ft]	Wt [lb]	Quantity	Part No	DG
1/2	6 1/2	1.029	16	15310	4
5/8	6 1/2	1.899	16	15311	4
3/4	6 1/2	1.300	16	15314	4




Bend support
 - For in slab applications
 - Not suitable for Viega FostaPEX
 - Plastic
Model 2851US

for d	Wt [lb]	Quantity	Part No	DG
3/8	0.075	10	15106	4
1/2	0.127	10	15107	4
5/8, 3/4	0.190	10	15108	4



J-clamp tubing fastener
 - Plastic
Components
 Nail
Model 2860US


for d	Wt [lb]	Quantity	Part No	DG
3/8	0.006	100	52000	2
1/2	0.008	100	52020	2
3/4	0.013	100	52040	2
1	0.021	100	52060	2



Lock clip
 - Plastic
Model 2863US


for d	Wt [lb]	Quantity	Part No	DG
5/16	0.009	100	58070	4
3/8	0.009	100	58071	2
1/2	0.013	100	58072¹⁾	2
3/4	0.009	50	58073	2
1	0.020	50	58074	2
1 1/4	0.030	50	58075	2
1 1/2	0.040	25	58076	2
2	0.050	15	58077	2

¹⁾ Suitable for Viega Barrier PEX tubing Part No 11445, 11450




Bend support Drop ear
 - Not suitable for Viega FostaPEX
 - Plastic-coated steel
Model 2850.1US

for d	Wt [lb]	Quantity	Part No	DG
3/8, 1/2	0.198	25	50520	2




Bend support
 - Not suitable for Viega FostaPEX
 - Plastic
Model 2850.2US

for d	Wt [lb]	Quantity	Part No	DG
1/2	0.083	25	51020	2
5/8, 3/4	0.154	25	51040	2
1	0.258	25	51060	2



90° elbow coupling
 - For 5/16" Viega Barrier PEX
 - Suitable for Viega Barrier PEX tubing Part No 11400, 11405
Components
 Coupling, plastic clip
Model 2810.8US

d	Wt [lb]	Quantity	Part No	DG
5/16	0.032	2	15104	4



Clip
 - Plastic
Model 2871.6US

d	Wt [lb]	Quantity	Part No	DG
5/16	0.002	100	15112	4

Elbows



Viega PureFlow Press 90° elbow Zero Lead
 - Bronze
 - Press connection
Model 2816ZL

P1	P2	Wt [lb]	Quantity	Part No	DG
1/2	1/2	0.086	10	93520	6
3/4	3/4	0.156	10	93540	6
1	1	0.212	10	93560	6
1 1/4	1 1/4	0.359	5	93570	6
1 1/2	1 1/2	0.450	5	93580	6



Viega PureFlow Press 90° elbow
 - Bronze
 - Press connection
Model 2816NG

P1	P2	Wt [lb]	Quantity	Part No	DG
5/8	5/8	0.164	5	83530*	4

* = Available while supplies last



Viega PureFlow Press 90° elbow Smart Connect Technology
 - Polymer
 - Press connection
Model V5616

P1	P2	Wt [lb]	Quantity	Part No	DG
3/8	3/8	0.023	25	49210	6
1/2	1/2	0.029	250	49220	6
3/4	3/4	0.047	250	49240	6
1	1	0.080	10	49260	6
1 1/4	1 1/4	0.171	5	49270	6
1 1/2	1 1/2	0.220	5	49280	6
2	2	0.377	1	49290	6



Viega PureFlow Press 90° elbow
 - Bronze
 - Press connection, female copper tube size
Model 2814.5NG

P	C	Wt [lb]	Quantity	Part No	DG
5/8	3/4	0.344	5	89312*	4

* = Available while supplies last



Viega PureFlow Press 90° elbow
 - Bronze
 - Press connection, street, female copper tube size
Model 2814.7NG

P	FTG (CTS)	C	Wt [lb]	Quantity	Part No	DG
5/8	3/4	1/2	0.333	5	89313*	4

* = Available while supplies last



Viega PureFlow Press 90° elbow Zero Lead
 - Bronze
 - Press connection, male pipe thread
Model 2814ZL

P	MPT	Wt [lb]	Quantity	Part No	DG
1/2	1/2	0.202	10	92520	6
1/2	3/4	0.315	10	92525	6
3/4	3/4	0.317	10	92540	6
3/4	1	0.748	10	92545	6
3/4	1 1/4	1.210	2	92565	6
1	1	0.743	10	92560	6
1	1 1/4	1.201	2	92570	6
1 1/4	1 1/4	1.270	2	92757	6
1 1/2	1 1/2	1.415	2	92580	6



Viega ProPress insert stiffener
 - For Viega ProPress 90° extended street elbow
 - Suitable for Viega ProPress 90° extended street elbow Model 2947
 - Bronze
Model 2946

d	Wt [lb]	Quantity	Part No	DG
3/4	0.046	5	16423	4

Tees



Viega PureFlow Press tee
 - Bronze
 - Press connection
Model 2818NG

P1	P2	P3	Wt [lb]	Quantity	Part No	DG
5/8	5/8	5/8	0.188	5	84030	4



Viega PureFlow Press tee Zero Lead
 - Bronze
 - Press connection
Model 2818ZL

P1	P2	P3	Wt [lb]	Quantity	Part No	DG
1/2	1/2	1/2	0.107	10	94020	6
1/2	1/2	3/4	0.194	10	94022	6
3/4	1/2	1/2	0.177	10	94032	6
3/4	1/2	3/4	0.177	10	94034	6
3/4	3/4	1/2	0.185	10	94036	6
3/4	3/4	3/4	0.182	10	94040	6
1	1/2	1/2	0.282	10	94037	6
1	1/2	1	0.233	10	94039	6
1	3/4	1/2	0.287	10	94038	6
1	3/4	3/4	0.220	10	94052	6
1	3/4	1	0.242	10	94053	6
1	1	1/2	0.216	10	94050	6
1	1	3/4	0.262	10	94056	6
1	1	1	0.296	10	94060	6
1 1/4	1 1/4	3/4	0.547	5	94072	6



Viega PureFlow Press tee Smart Connect Technology
 - Polymer
 - Press connection
Model V5618

P1	P2	P3	Wt [lb]	Quantity	Part No	DG
3/8	3/8	3/8	0.035	25	49200	6
1/2	3/8	3/8	0.036	25	49322	6
1/2	1/2	3/8	0.039	25	49332	6
1/2	1/2	1/2	0.042	25	49520	6
1/2	1/2	3/4	0.052	25	49334	6
3/4	1/2	1/2	0.052	25	49433	6
3/4	1/2	3/4	0.061	25	49434	6
3/4	3/4	1/2	0.059	25	49443	6
3/4	3/4	3/4	0.068	25	49540	6
1	1/2	1/2	0.068	10	49533	6
1	1/2	1	0.097	10	49535	6
1	3/4	1/2	0.074	10	49543	6
1	3/4	3/4	0.084	10	49544	6
1	3/4	1	0.104	10	49545	6
1	1	1/2	0.088	10	49553	6
1	1	3/4	0.102	10	49554	6
1	1	1	0.115	10	49560	6
1 1/4	1	3/4	0.150	5	49754	6
1 1/4	1	1	0.166	5	49755	6
1 1/4	1 1/4	1/2	0.245	5	49888	6
1 1/4	1 1/4	3/4	0.182	5	49774	6
1 1/4	1 1/4	1	0.206	5	49775	6
1 1/4	1 1/4	1 1/4	0.250	5	49570	6
1 1/2	1	3/4	0.170	5	49854	6
1 1/2	1	1	0.195	5	49855	6
1 1/2	1	1 1/2	0.245	5	49886	6
1 1/2	1 1/4	3/4	0.205	5	49874	6
1 1/2	1 1/4	1	0.225	5	49875	6
1 1/2	1 1/4	1 1/4	0.275	5	49877	6
1 1/2	1 1/2	1/2	0.214	5	49883	6
1 1/2	1 1/2	3/4	0.233	5	49884	6
1 1/2	1 1/2	1	0.245	5	49885	6
1 1/2	1 1/2	1 1/4	0.290	5	49887	6
1 1/2	1 1/2	1 1/2	0.326	5	49580	6
2	1 1/2	3/4	0.001	1	49984	6
2	1 1/2	1	0.315	1	49985	6
2	1 1/2	1 1/4	0.365	1	49987	6
2	1 1/2	1 1/2	0.390	1	49988	6
2	2	1/2	0.309	1	49993	6
2	2	3/4	0.355	1	49994	6
2	2	1	0.373	1	49995	6
2	2	1 1/4	0.405	1	49997	6
2	2	1 1/2	0.435	1	49998	6
2	2	2	0.500	1	49590	6

Adapters



Viega PureFlow Press adapter
 - Bronze
 - Press connection, male pipe thread
Model 2811NG

P	MPT	Wt [lb]	Quantity	Part No	DG
5/8	1/2	0.119	5	80527*	4
5/8	3/4	0.165	5	80531	4

* = Available while supplies last

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**Viega PureFlow Press adapter
Zero Lead**
- Bronze
- Press connection, male pipe thread
Model 2811ZL

P	MPT	Wt [lb]	Quantity	Part No	DG
3/8	1/2	0.101	10	90506	6
1/2	1/2	0.098	10	90521	6
1/2	3/4	0.152	10	90526	6
3/4	1/2	0.113	10	90542	6
3/4	3/4	0.160	10	90541	6
3/4	1	0.283	10	90546	6
3/4	1 1/4	0.507	2	90562	6
1	3/4	0.182	10	90556	6
1	1	0.284	10	90561	6
1	1 1/4	0.524	2	90566	6
1 1/4	1 1/4	0.564	2	90571	6
1 1/2	1 1/2	0.683	2	90581	6
2	2	1.104	5	90591	6



**Viega PureFlow Press adapter
Zero Lead**
- Bronze
- Press connection, female pipe thread
Model 2812ZL

P	FPT	Wt [lb]	Quantity	Part No	DG
1/2	1/2	0.098	10	91520	6
1/2	3/4	0.135	10	91525	6
3/4	1/2	0.110	10	91541	6
3/4	3/4	0.141	10	91540	6
1	3/4	0.166	10	91545	6
1	1	0.239	10	91560	6
1 1/4	1 1/4	0.436	5	91570	6
1 1/2	1 1/2	0.511	5	91580	6
2	2	0.818	5	91590	6



**Viega PureFlow Press adapter
Smart Connect Technology**
- Bronze
- Press connection
Components
EPDM sealing elements
Model 2813PNG

P1	P2	Wt [lb]	Quantity	Part No	DG
3/8	1/2	0.081	5	69627	4
3/8	3/4	0.134	5	69628	4



**Viega PureFlow Press transition coupling
Smart Connect Technology
Zero Lead**
- For transitioning between Viega PureFlow
Press and Viega ProPress
- Bronze
- Press connection
Components
EPDM sealing elements
Note
ProPress and PureFlow tool and press jaws
required
Model 2813PZL

P1	P2	Wt [lb]	Quantity	Part No	DG
1/2	1/2	0.076	10	99620	6
1/2	3/4	0.115	10	99626	6
3/4	1/2	0.078	10	99630	6
3/4	3/4	0.115	10	99640	6
1	3/4	0.136	10	99645	6
1	1	0.184	10	99660	6
1 1/4	1	0.236	5	99665	6
1 1/4	1 1/4	0.287	5	99670	6
1 1/2	1 1/2	0.447	5	99680	6
2	2	0.723	5	99690	6



Viega PureFlow Press adapter
- Bronze
- Press connection, female copper tube size
Model 2813.5NG

P	C	Wt [lb]	Quantity	Part No	DG
3/8	3/4	0.108	5	82031*	4

* = Available while supplies last



**Viega PureFlow Press adapter
Zero Lead**
- Bronze
- Press connection, female copper tube size
Model 2813.5ZL

P	C	Wt [lb]	Quantity	Part No	DG
3/8	1/2	0.062	10	92006	6
1/2	1/2	0.063	10	92021	6
1/2	3/4	0.099	10	92026	6
3/4	1/2	0.067	10	92036	6
3/4	3/4	0.113	10	92041	6
3/4	1	0.176	10	92045	6
1	1	0.186	10	92060	6
1 1/4	1 1/4	0.323	5	92070	6
1 1/2	1 1/2	0.436	5	92080	6
2	2	0.655	5	92090	6


Viega PureFlow Press adapter

- Bronze
 - Press connection, street
- Model 2813.1NG**

P	FTG (CTS)	Wt [lb]	Quantity	Part No	DG
5/8	1/2	0.079	5	87530*	4
5/8	3/4	0.119	5	87531	4

* = Available while supplies last


Viega PureFlow Press adapter Zero Lead

- Bronze
 - Press connection, street
- Note**
ProPress tool and press jaw required
- Model 2813.1ZL**

P	FTG (CTS)	Wt [lb]	Quantity	Part No	DG
1/2	1/2	0.064	10	97520	6
1/2	3/4	0.094	10	97525	6
3/4	1/2	0.079	10	97535	6
3/4	3/4	0.101	10	97540	6
3/4	1	0.154	10	97545	6
1	1	0.175	10	97560	6
1 1/4	1 1/4	0.305	5	97570	6
1 1/2	1 1/2	0.436	5	97580	6
2	2	0.696	5	97590 ¹	6

¹⁾ for use with solder fittings only


SVC manifold adapter

- For Viega PureFlow Press connections with SVC manifold outlets
 - Bronze
 - Press connection, SVC
- Model 2819NG**

P	SVC	Wt [lb]	Quantity	Part No	DG
5/16	✓	0.140	5	89407	4
3/8	✓	0.141	5	89408	4
1/2	✓	0.145	5	89409	4
5/8	✓	0.161	5	89413	4
3/4	✓	0.158	5	89410	4


Compression adapter

- Bronze
- Compression, SVC
- Allows Viega PEX compression connections with SVC manifold outlets

Components

Adapter, compression ring, nut

Model 1022SV

P	SVC	Wt [lb]	Quantity	Part No	DG
5/16	✓	0.214	2	19007	4
3/8	✓	0.209	2	19008	4
1/2	✓	0.197	2	19009	4
5/8	✓	0.197	2	19010	4


Compression adapter

- Bronze
- Compression, SVC
- Allows Viega PEX compression connections with SVC manifold outlets

Components

Adapter, compression ring, nut, threaded adapter

Model 1022.1SV

P	SVC	Wt [lb]	Quantity	Part No	DG
3/4	✓	0.371	2	19011	4


SVC compression adapter

- Only for type L copper, type K copper, type M copper
- Brass
- SVC
- Allows compression copper connection with SVC manifold without soldering

Components

Brass nut, plastic insert

Model 9438.5SV

d	SVC	Wt [lb]	Quantity	Part No	DG
3/4	✓	0.321	10	19306*	4

* = Available while supplies last


SVC adapter

- Bronze
 - Male pipe thread, SVC
- Model 1022.6SV**

MPT	SVC	Wt [lb]	Quantity	Part No	DG
1/2	✓	0.140	5	19109	4
3/4	✓	0.167	5	19110*	4

* = Available while supplies last

Couplings



Viega PureFlow Press coupling
 - Bronze
 - Press connection
Model 2815NG

P1	P2	Wt [lb]	Quantity	Part No	DG
5/16	5/16	0.032	5	83001	4
5/8	5/8	0.068	5	83030	4



Viega PureFlow Press coupling Zero Lead
 - Bronze
 - Press connection
Model 2815ZL

P1	P2	Wt [lb]	Quantity	Part No	DG
3/8	3/8	0.041	10	93000	6
1/2	1/2	0.052	10	93020	6
3/4	1/2	0.070	10	93050	6
3/4	3/4	0.073	10	93040	6
1	3/4	0.113	10	93055	6
1	1	0.131	10	93060	6
1 1/4	1	0.210	5	93065	6
1 1/4	1 1/4	0.260	5	93070	6
1 1/2	1	0.246	5	93073	6
1 1/2	1 1/2	0.317	5	93080	6



Viega PureFlow Press coupling Smart Connect Technology
 - Polymer
 - Press connection
Model V5615

P1	P2	Wt [lb]	Quantity	Part No	DG
3/8	3/8	0.022	25	49402	6
1/2	3/8	0.024	25	49342	6
1/2	1/2	0.027	25	49403	6
3/4	1/2	0.034	25	49343	6
3/4	3/4	0.040	25	49404	6
1	3/4	0.055	10	49354	6
1	1	0.068	10	49405	6
1 1/4	3/4	0.101	5	49347	6
1 1/4	1	0.112	5	49357	6
1 1/4	1 1/4	0.151	5	49407	6
1 1/2	3/4	0.118	5	49348	6
1 1/2	1	0.133	5	49358	6
1 1/2	1 1/4	0.165	5	49378	6
1 1/2	1 1/2	0.190	5	49408	6
2	1 1/2	0.270	1	49398	6
2	2	0.305	1	49409	6



Coupling
 - Brass
 - Compression
 - Low profile
Model 1030SV

d1	d2	Wt [lb]	Quantity	Part No	DG
5/16	5/16	0.151	10	19013	4



SVC coupling
 - Brass
 - Compression
Components
 SVC coupling, (2) nuts and inserts
Model 1030.1SV

SVC	d1	d2	Wt [lb]	Quantity	Part No	DG
✓	1/2	1/2	0.556	1	19015	4
✓	5/8	5/8	0.542	1	19016	4
✓	3/4	3/4	0.899	1	19017	4



Reducer
 - For stainless steel manifold to mixing station connections
 - Bronze
 - Male pipe thread, female pipe thread
Model 1003.5SV

MPT	FPT	Wt [lb]	Quantity	Part No	DG
1 1/4	1	0.356	2	15044	4



Viega PureFlow Press test plug
 - Bronze
 - Press connection
Model 2856NG

P	Wt [lb]	Quantity	Part No	DG
5/8	0.048	5	85131	4

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Viega PureFlow Press test plug
Smart Connect Technology
 - Polymer
 - Press connection
Model V5656

P	Wt [lb]	Quantity	Part No	DG
3/8	0.011	25	49722	6
1/2	0.015	25	49723	6
3/4	0.022	25	49744	6
1	0.038	10	49765	6
1 1/4	0.082	5	49770	6
1 1/2	0.095	5	49780	6
2	0.154	1	49790	6



Repair coupling tape
 - For wrapping PureFlow Press fittings in a slab
 - Silicone
Model 2890.4US

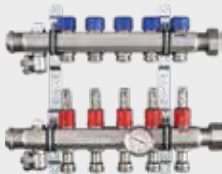
W [in]	L [ft]	Wt [lb]	Quantity	Part No	DG
1	10	0.120	1	15320	4



Expansion nipple
 - For connecting stainless steel manifolds
 - Nickel-plated brass
 - Male pipe thread
Model 2878.922

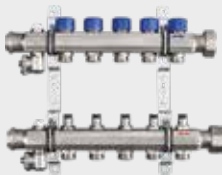
MPT1	MPT2	Wt [lb]	Quantity	Part No	DG
1/4	1	0.312	2	15186	4

Manifolds



Manifold
 - Equipped with air bleeder Model 2878.914, purge valve Model 2878.915, supply flow meter valve Model 2878.920, supply shutoff balancing valve Model 2878.924
 - Stainless steel
 - SVC, union connection, female pipe thread
 - Preassembled
Model 2804

Outlet(s)	SVC	Union	FPT	Wt [lb]	Quantity	Part No	DG
2	✓	1/4	1	5.142	1	16030	4
3	✓	1/4	1	5.587	1	16031	4
4	✓	1/4	1	6.687	1	16032	4
5	✓	1/4	1	6.687	1	16033	4
6	✓	1/4	1	8.351	1	16034	4
7	✓	1/4	1	9.202	1	16035	4
8	✓	1/4	1	10.097	1	16036	4
10	✓	1/4	1	11.935	1	16038	4
12	✓	1/4	1	13.751	1	16040	4



Manifold
 - Equipped with air bleeder Model 2878.914, purge valve Model 2878.915, supply shutoff balancing valve Model 2878.924
 - Stainless steel
 - SVC, union connection, female pipe thread
 - Preassembled
Model 2879

Outlet(s)	SVC	Union	FPT	Wt [lb]	Quantity	Part No	DG
2	✓	1/4	1	4.417	1	16400	4
3	✓	1/4	1	5.217	1	16401	4
4	✓	1/4	1	6.068	1	16402	4
5	✓	1/4	1	6.947	1	16403	4
6	✓	1/4	1	7.798	1	16404	4
7	✓	1/4	1	8.576	1	16405	4
8	✓	1/4	1	9.711	1	16406	4
10	✓	1/4	1	11.421	1	16408	4
12	✓	1/4	1	12.975	1	16410	4



Manifold ball valve set
 - For stainless steel manifold
 - Nickel-plated brass
 - Union connection, female pipe thread

Components
 (1) red-handled and (1) blue-handled ball valve
Model 2877.2

Union	FPT	Wt [lb]	Quantity	Part No	DG
1/4	1	1.802	1	15056	4

4.1



Manifold expansion set

- For stainless steel manifold shutoff / balancing / flow meter
- Suitable for manifold Model 2804, manifold ball valve set Model 2877.2
- Stainless steel
- Union connection, female pipe thread

Components

- (2) 1¼" MPT x 1" MPT adapter, (2) gaskets, (2) expansion nipples

Model 2877.5

d	Union	FPT	Outlet(s)	Wt [lb]	Quantity	Part No	DG
1¼	1¼	1	1	2.409	1	16430	4



Manifold expansion set

- For stainless steel manifold shutoff / balancing
- Suitable for manifold ball valve set Model 2877.2, manifold Model 2879
- Stainless steel
- Union connection, female pipe thread

Components

- (2) 1¼" MPT x 1" MPT adapter, (2) gaskets, (2) expansion nipples

Model 2877.4

d	Union	FPT	Outlet(s)	Wt [lb]	Quantity	Part No	DG
1¼	1¼	1	1	2.288	1	16431	4



Manifold outlet cap

- For stainless steel manifold
- Nickel-plated brass
- SVC

Components

- EPDM gasket

Model 2856.7

	SVC	Wt [lb]	Quantity	Part No	DG
	✓	0.042	2	15054	4



Manifold end plug

- For stainless steel manifold
- Nickel-plated brass
- Male pipe thread

Components

- EPDM gasket

Model 2856.6

	MPT	Wt [lb]	Quantity	Part No	DG
	1	0.149	2	15053	4



Manifold

- Equipped with shutoff / balancing valve Model 2834.7US
- Type L copper
- Solder inlet connection, PureFlow Press outlet connection

Components

- Brass valves

Model 2834.9US

Outlet(s)	d	P	gpm	Wt [lb]	Quantity	Part No	DG
12	1½	⅝	32	14.116	1	17223	4
12	1½	¾	32	13.906	1	17224	4
12	2	⅝	45	16.295	1	17204	4
12	2	¾	45	15.721	1	17205	4



Manifold

- Equipped with shutoff valve Model 2834.6US
- Type L copper
- Solder inlet connection, PureFlow Press outlet connection

Components

- Brass valves

Model 2834.8US

Outlet(s)	d	P	gpm	Wt [lb]	Quantity	Part No	DG
12	1½	⅝	32	10.297	1	17221	4
12	1½	¾	32	10.027	1	17222	4
12	2	⅝	45	12.496	1	17202	4
12	2	¾	45	11.917	1	17203	4



Manifold Valveless

- Type L copper
- Solder

Model 2835US

Outlet(s)	d1	d2	gpm	Wt [lb]	Quantity	Part No	DG
3	1	½	13	0.500	2	17141 ¹⁾	4
18	1½	¾	32	6.063	2	17120	4
18	2	¾	45	9.067	2	17100	4

¹⁾ copper female inlet and male outlet header



Closing cap

- For use with copper manifolds
- Type L copper
- Female copper tube size, female pipe thread

Note

½" FPT for draw-off (purge valve) and ⅜" FPT for automatic air vent (bottle vent).

Model 2834.5US

C	FPT1	FPT2	Wt [lb]	Quantity	Part No	DG
1½	½	⅜	0.665	1	17125	4
2	½	⅜	0.750	1	17106	4



Manifold bracket

- For use with copper manifolds
- Galvanized steel

Model 2878.927

d	Wt [lb]	Quantity	Part No	DG
2	0.545	1	17107	4



Manifold cabinet

- Suitable for manifold Model 2804, 2879
- Galvanized steel, epoxy powder-coated finish

Model 2879.6US

W [in]	H [in]	D [in]	Wt [lb]	Quantity	Part No	DG
21	30	4½	25.993	1	15800	4
27	30	4½	31.991	1	15801	4
45	30	4½	45.987	1	15802	4



Lock assembly

- Suitable for manifold cabinet Model 2879.6US

Components

(2) keys

Note

Part No 15802 requires two locks.

Model 2857.7US

Wt [lb]	Quantity	Part No	DG
0.119	1	15217	4

Controls



Basic heating control

- For controlling system water temperature based on outdoor reset
- Modulating mixing valve control, boiler activation

Components

Supply sensor, outdoor sensor

Model 2871.0US

Wt [lb]	Quantity	Part No	DG
2.488	1	16015	4



Wi-Fi Snow Melt Control

- For use with snow/ice sensor and snow/ice sensor housing, slab sensor and aerial snow sensor, or slab sensor only
- Mobile app for iOS and Android, automatic storm prediction via weather data, automatic software updates via the cloud, zoning (priority, tracking)

Components

Microcontroller, outdoor sensor, two universal sensors

Model 2872.5US

Wt [lb]	Quantity	Part No	DG
4.284	1	17014	4



Indoor sensor

- Use with basic heating control Model 2871.0US
- Model 2871.2US**

	Wt [lb]	Quantity	Part No	DG
	0.108	1	16016	4



Multiple outdoor sensor

- For up to (4) basic heating controls to share a single outdoor sensor
- Use with basic heating control Model 2871.0US

Components

10kΩ thermistor

Model 2871.3US

	Wt [lb]	Quantity	Part No	DG
	0.009	1	16020*	4

* = Available while supplies last



Zone control

- Suitable for zone valve Model 2837.1US, 2837.2US, 2837.3US, digital thermostat Model 2874.5US, powerhead Model 2877.7
- Zone wiring and switching center

Components

Circuit board, 24 V AC transformer

Model 2874.7US

Zones	Wt [lb]	Quantity	Part No	DG
4	3.632	1	18060	4
6	5.653	1	18062	4



Pump and boiler relay

Components

- 120 V AC supply, 24 V AC transformer, control pump and boiler contact outputs with dry or powered input signal

Model 2876.0US

	Wt [lb]	Quantity	Part No	DG
	1.779	1	18033*	4

* = Available while supplies last



Digital thermostat

- For sensing floor and/or room temperature
- Suitable for zone control Model 2874.7US, powerhead Model 2877.7
- Adjustable setback, controls up to (4) powerheads, high or low limit protection

Model 2874.5US

V	Wt [lb]	Quantity	Part No	DG
24	0.250	1	18050	4



Floor sensor

- Suitable for digital thermostat Model 2874.5US
- 10KΩ

Model 2874.6US

L [ft]	Wt [lb]	Quantity	Part No	DG
10	0.139	1	18051	4




Powerhead

- Suitable for manifold Model 2804, digital thermostat Model 2874.5US, zone control Model 2874.7US, manifold Model 2879


Model 2877.7

Wire	V	Wt [lb]	Quantity	Part No	DG
2	24 V AC	0.300	1	15070	4
4	24 V AC	0.350	1	15069	4




Powerhead
 - Suitable for manifold Model 2804, 2879
Model 2877.8

V	Wt [lb]	Quantity	Part No	DG
0-10 V DC	0.350	1	15068	4




Snow/Ice sensor
 - Spare part for Wi-Fi Snow Melt Control Model 2872.5US
 - Suitable for Snow/Ice sensor housing Model 2865.3US
Model 2875.8US

L [ft]	Wt [lb]	Quantity	Part No	DG
65	4.088	1	17016	4




Snow/Ice sensor housing
 - Spare part for Wi-Fi Snow Melt Control Model 2872.5US
Model 2865.3US

V	Wt [lb]	Quantity	Part No	DG
	1.739	1	17017	4




Sensor well
 - For housing temperature sensor
 - Suitable for basic heating control Model 2871.0US
 - Fits into solder cup or Viega ProPress fitting
Model 2801.4US

CTS	Wt [lb]	Quantity	Part No	DG
½	0.090	1	12128	4



Outdoor sensor
 - Spare part for basic heating control Model 2871.0US, Wi-Fi Snow Melt Control Model 2872.5US
 - Plastic
Components
 10kΩ thermistor
Model 2871.4US


Temp [°F]	W [in]	Wt [lb]	Quantity	Part No	DG
-60-140	1½	0.088	1	16017	4



Universal sensor
 - Suitable for sensor well Model 2801.4US, basic heating control Model 2871.0US, Wi-Fi Snow Melt Control Model 2872.5US
 - 10KΩ sensor
Model 2870.9US

V	Wt [lb]	Quantity	Part No	DG
	0.020	1	16018*	4

* = Available while supplies last




Actuator Proportional
 - For diverting valve control from direct digital control (DDC) system
 - Modulating
Model 2877.81

V	Wt [lb]	Quantity	Part No	DG
0-10 V DC	0.565	1	18027*	4

* = Available while supplies last

Panels, Plates, Tracks, and Mats



Viega Climate Panel Assembled
 - For 5/16" Viega Barrier PEX
 - Suitable for Viega Barrier PEX tubing Part No 11400, 11405
Components
 Plywood with aluminum backing
Model 2810US

L [in]	Spacing [in]	Wt [lb]	Quantity	Part No	DG
48	7	2.794	10	14021	4

4.1



Viega Climate Panel Assembled

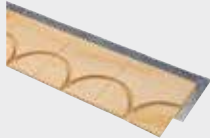
- For 5/16" Viega Barrier PEX
- Suitable for Viega Barrier PEX tubing
- Part No 11400, 11405
- (6) hinged panels

Components

Plywood with aluminum backing

Model 2810.2US

L [in]	Spacing [in]	Wt [lb]	Quantity	Part No	DG
48	7	15.995	1	14025	4



U-turn panel

- For 5/16" Viega Barrier PEX
- Suitable for Viega Barrier PEX tubing
- Part No 11400, 11405

Components

Plywood with aluminum backing

Model 2810.1US

L [in]	W [in]	Spacing [in]	Wt [lb]	Quantity	Part No	DG
48	7	7	2.799	10	14035	4



Viega rapid grid

- For 3/8", 1/2", 5/8" Viega Barrier PEX, 1/2" Viega FostaPEX
- Suitable for Viega Barrier PEX tubing
- Part No 11415, 11418, 11425, 11427, 11428, 11430, 11435, 11436, 11440, 11445, 11450
- High impact polystyrene
- Grid fastening system

Model 2857.2US

L [ft]	W [ft]	H [in]	Wt [lb]	Quantity	Part No	DG
4	2	2 7/8	2.939	8	15216	4



Climate Trak

- Suitable for Viega Barrier PEX tubing
- Part No 11415, 11418, 11425, 11427, 11428, 11430, 11435, 11436, 11440
- Extruded heavy gauge aluminum
- Pre-drilled holes

Model 2857.1US

L [ft]	W [in]	d	Wt [lb]	Quantity	Part No	DG
4	3 1/2	3/8	1.150	20	15209	4
4	3 1/2	1/2	1.150	20	15210	4



Viega Climate Mat

- For in slab applications
- Pre-engineered
- CAN/ULC S101, CAN/ULC S102.2

Model 2809.1US

d	O.C.	Loop	Circuit	W [ft]	Wt [lb]	Quantity	Part No	DG
1/2	6	6	6	6	0.688	1	18150	4
1/2	9	4	4	6	0.458	1	18151	4
1/2	6	6	3	6	0.688	1	18154	4
1/2	6	6	2	6	0.688	1	18155	4
1/2	9	4	2	6	0.458	1	18156	4
5/8	9	4	2	6	0.635	1	18157	4
5/8	9	4	4	6	0.635	1	18160	4
5/8	6	6	2	6	0.952	1	18185	4
5/8	6	6	4	6	0.952	1	18186	4
5/8	6	6	6	6	0.952	1	18187	4



Viega Climate Mat

- For in slab applications
- Pre-engineered
- CAN/ULC S101, CAN/ULC S102.2

Model 2809.2US

d	O.C.	Loop	Circuit	W [ft]	Wt [lb]	Quantity	Part No	DG
1/2	9	3	3	5	0.344	1	18158	4
1/2	12	3	3	5	0.344	1	18152	4
5/8	12	3	3	5	0.476	1	18159	4

Mixing equipment



Mixing station Enhanced

- For supply temperature modulation
- 7 settings, permanent magnet motor design reduces power consumption by 50%

Components

- Isolation ball valves, mounting bracket, supply temperature sensor well

Model V1203.0

Connections	Wt [lb]	Quantity	Part No	DG
ProPress	18.154	1	12152	4



Hydronic mixing block

- Circulator, control, mixing valve

Components

- 3-speed circulator, control, air vent, adapter fittings, bracket and two sensors

Model 2887.3

	Wt [lb]	Quantity	Part No	DG
	8.488	1	56160	4

Valves



Mixing valve

Three way

- Female pipe thread
- Regulates supply fluid temperature to the system from the source, manual or electric control

Model 2876.3US

FPT	Wt [lb]	Quantity	Part No	DG
3/4	0.963	1	20080	4
1	1.439	1	20081	4
1 1/4	2.233	1	20082	4
1 1/2	3.672	1	20083	4
2	5.142	1	20084	4



New

Three-way diverting and mixing valve

Smart Connect Technology

Zero Lead

- Not suitable for potable water installations, fuel gas application
- Bronze
- Male BSP

Components

- Three-way diverting and mixing valve, Viega ProPress tailpieces with EPDM sealing elements, flat gasket EPDM

Model 2976.3

P1	P2	Wt [lb]	Quantity	Part No	DG
1/2	1/2	1.758	1	87420	8
3/4	3/4	2.432	1	87425	8
1	1	3.620	1	87430	8
1 1/4	1 1/4	4.577	1	87435	8
1 1/2	1 1/2	7.067	1	87440	8
2	2	9.855	1	87445	8



Viega ProPress tailpiece

Smart Connect Technology

Zero Lead

- For use with ASTM B88 and B75 tubing
- Bronze
- Press connection, female union BSP

Components

- EPDM sealing element, flat gasket EPDM

Model 2957ZL

P	F BSP	Wt [lb]	Quantity	Part No	DG
1/2	1	0.220	1	79800	8
3/4	1	0.248	1	79805	8
1	1	0.304	1	79810	8
1	1 1/4	0.386	1	79815	8



Shutoff valve

- Use with manifold valveless Model 2835US
- Brass
- Female copper tube size, press connection

Model 2834.6US

C	P	Wt [lb]	Quantity	Part No	DG
1/2	1/2	0.252	10	17260	4
3/4	5/8	0.434	10	17261	4
3/4	3/4	0.424	10	17262	4



Shutoff / balancing valve

- Use with manifold valveless Model 2835US
- Brass
- Female copper tube size, press connection

Model 2834.7US

P	C	Wt [lb]	Quantity	Part No	DG
1/2	1/2	0.514	10	17263	4
5/8	3/4	0.739	10	17264	4
3/4	3/4	0.725	10	17265	4

4.1



Zone valve
 - Suitable for zone control Model 2874.7US
 - Bronze
 - Solder, PureFlow Press outlet connection
Model 2837.1US

V	C	P	Wt [lb]	Quantity	Part No	DG
24	¾	¾	1.479	1	17230	4
24	1	1	2.422	1	17231	4



Zone valve
 - Suitable for digital thermostat Model 2874.5US, zone control Model 2874.7US
 - Bronze
 - Press connection
Model 2837.2US

V	P1	P2	Wt [lb]	Quantity	Part No	DG
24	¾	¾	1.527	1	17232	4
24	1	1	2.488	1	17233	4



Zone valve
 - Suitable for digital thermostat Model 2874.5US, zone control Model 2874.7US
 - Bronze
 - Press connection, PureFlow Press outlet connection
Model 2837.3US

V	P1	P2	Wt [lb]	Quantity	Part No	DG
24	¾	¾	1.499	1	17234	4
24	1	1	2.513	1	17235	4



Spring check valve
 - For prevention of gravity circulation or backflow
 - Female pipe thread
 - Horizontal or vertical installation, non-ferrous
Model 2873.4US

FPT1	FPT2	Wt [lb]	Quantity	Part No	DG
½	½	0.255	1	20201	4
¾	¾	0.400	1	20202	4
1	1	0.562	1	20203	4
1¼	1¼	0.800	1	20204	4
1½	1½	1.100	1	20205	4



Return valve
 - For 1" brass manifolds
 - Brass
 - Male pipe thread
Model 2887.2

	Wt [lb]	Quantity	Part No	DG
	0.168	1	15005*	4

* = Available while supplies last

Accessories



System pressurization kit
 - For pressure testing
 - Suitable for manifold Model 2804, 2879, mixing station enhanced Model V1203.0

Components
 (1) pressure gauge, (2) 1¼" MPT x 1" FPT reducer, (2) 1" MPT test plug, (1) male hose thread x SVC adapter

Model 2873.5US

	Wt [lb]	Quantity	Part No	DG
	1.898	1	21210	4



Strap-on temperature gauge set
 - Can be soldered
Components
 Gauge, mounting spring, heat transfer paste
Model 2810.3US

d	Temp [°F]	Wt [lb]	Quantity	Part No	DG
2½	32-250	0.260	1	15055	4



Flange set
Components
 - (2) flanges, (2) sealing elements, (4) nuts,
 (4) bolts
Model 2881.9US

d	Wt [lb]	Quantity	Part No	DG
1	2.209	1	16209	4



Purge valve
 - For 1½" and 1" brass manifolds
 - Brass
 - National Pipe Thread, hose connection
Model 1069SV

NPT	Wt [lb]	Quantity	Part No	DG
½	0.234	1	15032*	4

* = Available while supplies last



Air vent
 - For 1½" and 1" brass manifolds
 - Brass
Components
 - Air vent, air bleeder
Model 1028SV

MPT	Wt [lb]	Quantity	Part No	DG
¾	0.476	1	15033	4



SVC adapter
 - For adapting 16 mm PEX to SVC connections
 - Brass
Model 2876.4US

	Wt [lb]	Quantity	Part No	DG
	0.196	10	19412	4



Adapter ring
 - For adapting powerhead to 1" brass manifold
 - Suitable for powerhead Model 2877.7
 - Plastic
Model 2877.9

	Wt [lb]	Quantity	Part No	DG
	0.035	1	15063*	4

* = Available while supplies last



Adapter ring
 - For adapting powerhead to Stadler brass manifold
 - Suitable for powerhead Model 2877.7
 - Plastic
Model 2879.9US

	Wt [lb]	Quantity	Part No	DG
	0.040	1	15065*	4

* = Available while supplies last



Adapter ring
 - For stainless steel manifold
 - Suitable for powerhead Model 2877.7
 - Plastic
Model 2899.1

	Wt [lb]	Quantity	Part No	DG
	0.020	1	15066	4

Spare parts



Flow meter cap
 - For stainless steel manifold shutoff / balancing / flow meter
 - Spare part for manifold Model 2804
 - Plastic
Model 2878.910

	Wt [lb]	Quantity	Part No	DG
	0.015	1	15171	4



Return shutoff cap

- For stainless steel manifold shutoff / balancing, stainless steel manifold shutoff / balancing / flow meter
- Spare part for manifold Model 2804, 2879
- Plastic

Model 2878.921

	Wt [lb]	Quantity	Part No	DG
	0.020	1	16432*	4

* = Available while supplies last



Manifold replacement temperature gauge

- For stainless steel manifold shutoff / balancing / flow meter
- Spare part for manifold Model 2804

Model 2878.913

Temp [°F]	Wt [lb]	Quantity	Part No	DG
32-176	0.090	1	15175	4



Air bleeder

- For stainless steel manifold shutoff / balancing, stainless steel manifold shutoff / balancing / flow meter
- Spare part for manifold Model 2804, 2879
- Nickel-plated brass
- Male pipe thread
- Manual

Model 2878.914

	Wt [lb]	Quantity	Part No	DG
	0.090	1	15176	4



Purge valve

- For stainless steel manifold shutoff / balancing, stainless steel manifold shutoff / balancing / flow meter
- Spare part for manifold Model 2804, 2879
- Nickel-plated brass
- Male pipe thread

Model 2878.915

	Wt [lb]	Quantity	Part No	DG
	0.330	1	15177	4



Return valve seat

Long

- For stainless steel manifold shutoff / balancing / flow meter
- Spare part for manifold Model 2804
- Nickel-plated brass
- Male pipe thread, SVC

Model 2878.916

SVC	Wt [lb]	Quantity	Part No	DG
✓	0.200	1	15178	4



Return valve seat

Short

- For stainless steel manifold shutoff / balancing
- Spare part for manifold Model 2879
- Nickel-plated brass
- Male pipe thread, SVC

Model 2878.917

SVC	Wt [lb]	Quantity	Part No	DG
✓	0.125	1	15179	4



Supply valve seat

- For stainless steel manifold shutoff / balancing / flow meter
- Spare part for manifold Model 2804
- Nickel-plated brass
- Male pipe thread, SVC

Model 2878.918

SVC	Wt [lb]	Quantity	Part No	DG
✓	0.155	1	15180	4



Return valve
 - For stainless steel manifold shutoff / balancing, stainless steel manifold shutoff / balancing / flow meter
 - Spare part for manifold Model 2804, 2879
Model 2878.919

Wt [lb]	Quantity	Part No	DG
0.200	1	15181	4



Supply shutoff balancing valve
 - For stainless steel manifold shutoff / balancing
 - Spare part for manifold Model 2879
 - Nickel-plated brass
 - Male pipe thread
Model 2878.924

Wt [lb]	Quantity	Part No	DG
0.160	1	15182	4



Supply flow meter valve
 - For stainless steel manifold shutoff / balancing / flow meter
 - Spare part for manifold Model 2804
 - Nickel-plated brass
 - Male pipe thread
 - Clear plastic sight glass
Model 2878.920

Wt [lb]	Quantity	Part No	DG
0.200	1	15184	4



Inlet gasket
 - For stainless steel manifold shutoff / balancing, stainless steel manifold shutoff / balancing / flow meter
 - Spare part for manifold Model 2804, 2879
 - Rubber
Model 2878.923

Wt [lb]	Quantity	Part No	DG
0.013	2	15170	4



Valve seat
 - For Stadler brass manifold supply and return
 - Brass
 - Male pipe thread
Model 2876.7US

Wt [lb]	Quantity	Part No	DG
0.140	1	13267*	4

* = Available while supplies last



Hydronic mixing block supply fitting #1
 - For replacement of hydronic mixing block supply fitting #1
 - Spare part for hydronic mixing block Model 2887.3
 - Plastic
Note
 Order gasket and O-ring separately
Model 2887.31

Wt [lb]	Quantity	Part No	DG
0.064	1	56162	4



Hydronic mixing block return fitting #2
 - For replacement of hydronic mixing block return fitting #2
 - Spare part for hydronic mixing block Model 2887.3
 - Plastic
Note
 Order gasket and O-ring separately
Model 2887.32

Wt [lb]	Quantity	Part No	DG
0.085	1	56163	4

4.1



Hydronic mixing block delivery fitting #3

- For replacement of hydronic mixing block delivery fitting #3
- Spare part for hydronic mixing block Model 2887.3
- Plastic

Note

Order gasket and O-ring separately

Model 2887.33

	Wt [lb]	Quantity	Part No	DG
	0.085	1	56164	4



Hydronic mixing block gasket

- For fittings 1-3
- Spare part for hydronic mixing block Model 2887.3, hydronic mixing block supply fitting #1 Model 2887.31, hydronic mixing block return fitting #2 Model 2887.32, hydronic mixing block delivery fitting #3 Model 2887.33
- Rubber

Model 2887.30

	Wt [lb]	Quantity	Part No	DG
	0.002	1	56165	4



Hydronic mixing block O-ring

- For fittings 1-3
- Spare part for hydronic mixing block Model 2887.3, hydronic mixing block supply fitting #1 Model 2887.31, hydronic mixing block return fitting #2 Model 2887.32, hydronic mixing block delivery fitting #3 Model 2887.33
- Rubber

Model 2887.37

	Wt [lb]	Quantity	Part No	DG
	0.002	1	56169	4



Clip

- For use with hydronic mixing block fittings 1-3
- Spare part for hydronic mixing block Model 2887.3
- Aluminum

Model 2887.38

	Wt [lb]	Quantity	Part No	DG
	0.009	1	56170	4



Hydronic mixing block T&P sensor

- For use with T&P sensor O-ring
- Spare part for hydronic mixing block Model 2887.3

Note

Order T&P sensor O-ring separately

Model 2887.34

	Wt [lb]	Quantity	Part No	DG
	0.053	1	56166	4



Hydronic mixing block T&P sensor O-ring

- For T&P sensor
- Spare part for hydronic mixing block Model 2887.3, hydronic mixing block T&P sensor Model 2887.34

Model 2887.35

	Wt [lb]	Quantity	Part No	DG
	0.001	1	56167	4



Terminal block

- For use with hydronic mixing block
- Spare part for hydronic mixing block Model 2887.3
- Plastic

Model 2887.4

	Wt [lb]	Quantity	Part No	DG
	0.029	1	56173	4



Circulator

- For use with hydronic mixing block
- Spare part for hydronic mixing block Model 2887.3
- Cast iron

Model 2887.41

	Wt [lb]	Quantity	Part No	DG
	3.434	1	56174	4

