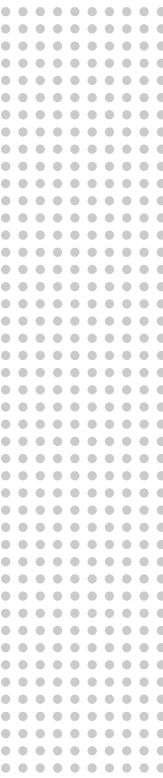




Pipeline Elevate-RT™ PE4710 (PE-RT) Piping Systems



PE-RT Piping Systems for Elevated-Temperature Applications

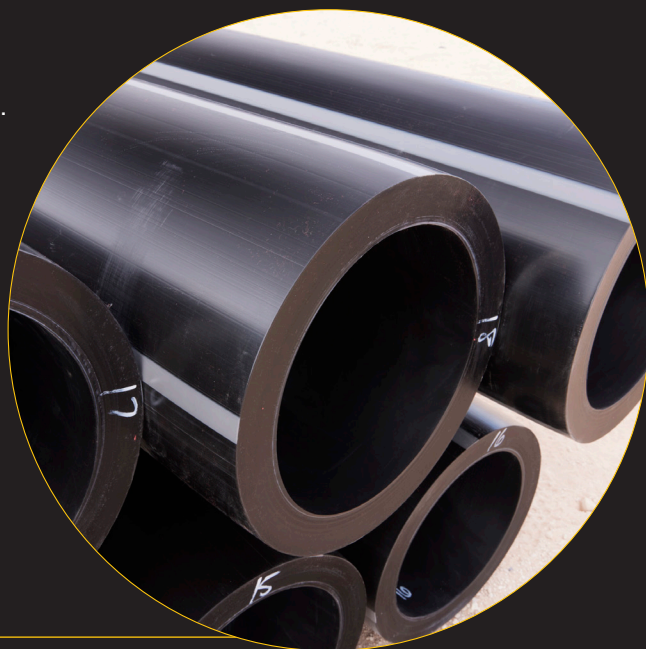


Pipeline Elevate-RT™(PE-RT) Piping Systems

A high-performance polyethylene piping solution engineered for elevated-temperature service up to 180°F.

For distributors and mechanical contractors, Elevate RT™ expands where fusible, corrosion-free polyethylene piping can be considered, from district heating and cooling to process and other high-temperature water systems.

- UP TO 180°F**
Engineered for continuous elevated-temperature service.
- FUSED, NOT FASTENED**
Heat-fused joints for a continuous PE-RT piping system.
- CORROSION RESISTANT**
Withstands demanding chemical and corrosive services.
- LIGHTWEIGHT & FLEXIBLE**
PE-RT simplifies routing, handling, and installation.
- 2"-42" IPS**
Standard pipe sizes across multiple DRs.



Established PE Joining

Elevate-RT is PE4710 (PE-RT) high-density polyethylene and uses established PE joining methods, including ASTM F2620 butt and saddle fusion for elevated-temp capability AND the same installation processes contractors already know.



Built for the Systems You Work With

Elevate-RT brings elevated-temperature PE4710 performance to heating, cooling, process and utility piping applications where mechanical contractors, engineers and facility teams are evaluating material performance, joining and installation.

DISTRICT HEATING & COOLING

Hot-and chilled-water distribution can mean long runs of buried pipe, multiple building connections and demanding operating temperatures. Elevate-RT brings heat-fused polyethylene to these systems with continuous operating temperatures up to 180°F.



HOT AND CHILLED WATER

Corrosion-resistant, heat-fused PE-RT for heating and chilled-water loops, condenser water, equipment connections and exterior mechanical piping.

PROCESS AND COOLING WATER

Process water, cooling water, equipment supply and return, and industrial utility piping where temperature and corrosion influence material selection.

CHEMICAL AND CORROSIVE SERVICE

A PE-RT piping system for appropriate chemical and corrosive applications where material compatibility and long-term system performance matter.



More Than Pipe: Elevate-RT™ (PE-RT) is a Complete System

Choosing an high-temperature piping system means considering the complete application, from operating conditions and system layout to fittings, joining and installation. Elevate-RT (PE-RT) is a complete system solution.

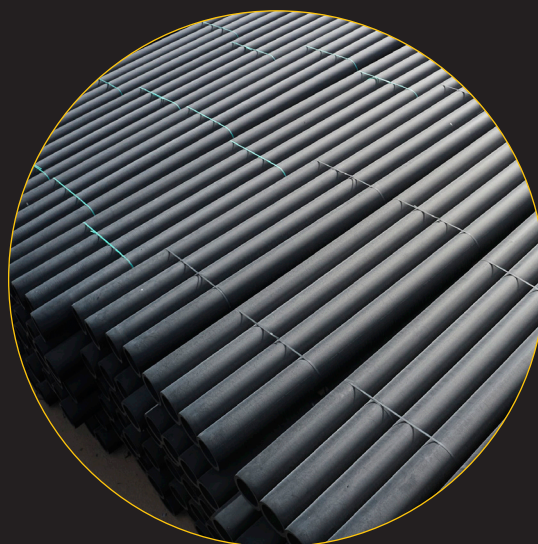
1. PIPE

Pipeline Elevate-RT is available in standard sizes from 2" through 42" IPS across multiple DRs, providing options for a broad range of mechanical and distribution piping requirements.



ISCO Insight:

Elevated-temperature piping isn't just about maximum temperature. Pressure, temperature, DR, service fluid and system conditions work together when evaluating the appropriate piping system.



2. COMPREHENSIVE FITTING OPTIONS

Molded and fabricated PE4710 (PE-RT) fittings support project-specific layouts and system configurations. Fittings must be appropriately rated for the design pressure and service temperature.





3.

FUSION

Elevate-RT supports proven polyethylene joining methods including butt fusion, saddle fusion and electrofusion, with fusion parameters following ASTM F2620 and applicable PPI guidance.



ISCO Insight:

Spirolite can be used in long-run sanitary sewer interceptors requiring efficient flow.

4.

PROJECT SUPPORT

Experienced polyethylene resources are available to help project teams move from initial consideration through installation.

Application Evaluation

Review operating conditions and system requirements.

Technical & Specification Support

Access product information, pressure/temperature guidance and specification resources.



Fabrication & System Solutions

Support project-specific fittings and fabricated components.

Fusion Equipment & Training

Equipment, joining expertise and training to support proper installation.

Field & Installation Support

Experienced resources available as the project moves into construction.



PIPELINE ELEVATE-RT™ PIPE SIZES AND DIMENSIONS

Standard IPS sizes from 2"–42" across multiple DRs.

IPS		DR	7	9	11	13.5	17	21	26	32.5
Size	OD (in)	PR ^A	335 psi	250 psi	200 psi	160 psi	125 psi	100 psi	80 psi	63 psi
2"		Min Wall (in)	0.339	0.264	0.216					
		ID ^B (in)	1.656	1.816	1.917					
		Lb / Ft ^C	0.948	0.767	0.643					
3"	3.500	Min Wall (in)	0.500	0.389	0.318					
		ID ^B (in)	2.440	2.676	2.825					
		Lb / Ft ^C	2.058	1.663	1.394					
4"	4.500	Min Wall (in)	0.643	0.500	0.409	0.333				
		ID ^B (in)	3.137	3.440	3.633	3.793				
		Lb / Ft ^C	3.400	2.751	2.307	1.914				
6"	6.625	Min Wall (in)	0.946	0.736	0.602	0.491	0.390			
		ID ^B (in)	4.619	5.064	5.348	5.585	5.799			
		Lb / Ft ^C	7.373	5.961	4.994	4.151	3.354			
8"	8.625	Min Wall (in)	1.232	0.958	0.784	0.639	0.507	0.411	0.332	0.265
		ID ^B (in)	6.013	6.593	6.963	7.271	7.549	7.754	7.922	8.062
		Lb / Ft ^C	12.50	10.11	8.466	7.035	5.689	4.658	3.808	3.066
10"	10.75	Min Wall (in)	1.536	1.194	0.977	0.796	0.632	0.512	0.413	0.331
		ID ^B (in)	7.494	8.218	8.678	9.062	9.409	9.665	9.873	10.049
		Lb / Ft ^C	19.42	15.70	13.16	10.93	8.830	7.247	5.905	4.772
12"	12.75	Min Wall (in)	1.821	1.417	1.159	0.944	0.750	0.607	0.490	0.392
		ID ^B (in)	8.889	9.747	10.293	10.748	11.160	11.463	11.710	11.918
		Lb / Ft ^C	27.32	22.09	18.51	15.38	12.43	10.19	8.315	6.709
14"	14.00	Min Wall (in)	2.000	1.556	1.273	1.037	0.824	0.667	0.538	0.431
		ID ^B (in)	9.760	10.702	11.302	11.801	12.254	12.587	12.858	13.087
		Lb / Ft ^C	32.93	26.63	22.31	18.54	14.98	12.29	10.03	8.092
16"	16.00	Min Wall (in)		1.778	1.455	1.185	0.941	0.762	0.615	0.492
		ID ^B (in)		12.231	12.916	13.487	14.005	14.385	14.695	14.956
		Lb / Ft ^C		34.77	29.15	24.21	19.58	16.05	13.08	10.56
18"	18.00	Min Wall (in)		2.000	1.636	1.333	1.059	0.857	0.692	0.554
		ID ^B (in)		13.760	14.531	15.173	15.755	16.183	16.532	16.826
		Lb / Ft ^C		44.02	36.90	30.64	24.76	20.31	16.57	13.36

Note - These tables represent standard sizes. Other sizes are available.

A - PR: Pressure Rating in pounds/sq. in. (psi) for ASTM F714 Water up to 80°F.

B - ID: Inside Diameter may vary due to manufacturing tolerances.

C - Wt. (lb/ft): Weight per foot in pounds may vary due to manufacturing tolerances.

PIPELINE ELEVATE-RT™ PIPE SIZES AND DIMENSIONS

Standard IPS sizes from 2"–42" across multiple DRs.

IPS		DR	7	9	11	13.5	17	21	26	32.5
Size	OD (in)	PR ^A	335 psi	250 psi	200 psi	160 psi	125 psi	100 psi	80 psi	63 psi
20"	20.00	Min Wall (in)		2.222	1.818	1.481	1.176	0.952	0.769	0.615
		ID ^B (in)		15.289	16.145	16.859	17.506	17.981	18.369	18.695
		Lb / Ft ^C		54.35	45.54	37.83	30.58	25.08	20.44	16.49
22"	22.00	Min Wall (in)			2.000	1.630	1.294	1.048	0.846	0.677
		ID ^B (in)			17.760	18.545	19.256	19.779	20.206	20.565
		Lb / Ft ^C			55.10	45.78	37.00	30.32	24.75	19.98
24"	24.00	Min Wall (in)			2.182	1.778	1.412	1.143	0.923	0.738
		ID ^B (in)			19.375	20.231	21.007	21.577	22.043	22.434
		Lb / Ft ^C			65.59	54.48	44.02	36.08	29.44	23.77
26"	26.00	Min Wall (in)				1.926	1.529	1.238	1.000	0.800
		ID ^B (in)				21.917	22.758	23.375	23.880	24.304
		Lb / Ft ^C				63.94	51.67	42.35	34.57	27.89
28"	28.00	Min Wall (in)				2.074	1.647	1.333	1.077	0.862
		ID ^B (in)				23.603	24.508	25.173	25.717	26.174
		Lb / Ft ^C				74.18	59.93	49.12	40.10	32.33
30"	30.00	Min Wall (in)				2.222	1.765	1.429	1.154	0.923
		ID ^B (in)				25.289	26.259	26.971	27.554	28.043
		Lb / Ft ^C				85.16	68.81	56.39	46.02	37.11
32"	32.00	Min Wall (in)					1.882	1.524	1.231	0.985
		ID ^B (in)					28.009	28.770	29.391	29.913
		Lb / Ft ^C					78.27	64.16	52.37	42.26
34"	34.00	Min Wall (in)					2.000	1.619	1.308	1.046
		ID ^B (in)					29.760	30.568	31.228	31.782
		Lb / Ft ^C					88.37	72.43	59.10	47.69
36"	36.00	Min Wall (in)					2.118	1.714	1.385	1.108
		ID ^B (in)					31.511	32.366	33.065	33.652
		Lb / Ft ^C					99.08	81.21	66.28	53.46
42"	42.00	Min Wall (in)						2.000	1.615	1.292
		ID ^B (in)						37.760	38.575	39.260
		Lb / Ft ^C						110.54	90.18	72.78

For Elevated-Temperature Pipe Projects

Pipeline Elevate-RT™ (PE-RT) gives mechanical contractors, engineers and facility teams a corrosion-resistant, heat-fused polyethylene piping option for heating, cooling, process and other elevated-temperature applications



READY TO GET STARTED?

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