

# Uponor PP-RCT reducing tees, mechanical (butt to socket fusion)



## Project Information

Job name:	Location:
Engineer:	Date submitted:
Contractor:	Submitted by:
Manufacturer's representative:	Approved by:

## Technical data

Material PP-RCT

## Product information and application use

Use Uponor PP-RCT reducing tees with Uponor PP-RCT mechanical pipe to convey water for hydronic heating and cooling or industrial applications.



Part name	Part no.	A [inch]	B [inch]	C [inch]	D [inch]	E [inch]	F [inch]	G [inch]	H [inch]	I [inch]	J [inch]
Uponor PP-RCT Reducing Tee, Mechanical, 10" x 10" x 2 1/2", SDR 11, Butt to Socket Fusion	PR114851025	15.748	15.748	15.551	20.472	31.496	25.394	9.843	9.843	19.291	1.181
Uponor PP-RCT Reducing Tee, Mechanical, 10" x 10" x 3", SDR 11, Butt to Socket Fusion	PR114851030	15.748	15.748	15.551	20.472	31.496	25.394	9.843	9.843	19.173	1.299
Uponor PP-RCT Reducing Tee, Mechanical, 10" x 10" x 4", SDR 11, Butt to Socket Fusion	PR114851040	15.748	15.748	15.551	20.472	31.496	25.394	9.843	9.843	18.898	1.575
Uponor PP-RCT Reducing Tee, Mechanical, 12" x 12" x 3", SDR 11, Butt to Socket Fusion	PR114851230	19.783	19.783	18.307	24.508	39.567	30.709	12.402	12.402	23.209	1.299
Uponor PP-RCT Reducing Tee, Mechanical, 12" x 12" x 4", SDR 11, Butt to Socket Fusion	PR114851240	19.783	19.783	18.307	24.508	39.567	30.709	12.402	12.402	22.933	1.575
Uponor PP-RCT Reducing Tee, Mechanical, 6" x 6" x 2 1/2", SDR 11, Butt to Socket Fusion	PR114856625	12.598	12.598	14.173	17.323	25.197	20.472	6.299	6.299	16.142	1.181
Uponor PP-RCT Reducing Tee, Mechanical, 6" x 6" x 3", SDR 11, Butt to Socket Fusion	PR114856630	12.598	12.598	14.173	17.323	25.197	20.472	6.299	6.299	16.024	1.299
Uponor PP-RCT Reducing Tee, Mechanical, 8" x 8" x 2 1/2", SDR 11, Butt to Socket Fusion	PR114858825	13.78	13.78	14.567	18.504	27.559	22.441	7.874	7.874	17.323	1.181
Uponor PP-RCT Reducing Tee, Mechanical, 8" x 8" x 3", SDR 11, Butt to Socket Fusion	PR114858830	13.78	13.78	14.567	18.504	27.559	22.441	7.874	7.874	17.205	1.299
Uponor PP-RCT Reducing Tee, Mechanical, 10" x 10" x 2 1/2", SDR 17.6 Butt to Socket Fusion	PR174851025	15.748	15.748	15.551	20.472	31.496	25.394	9.843	9.843	19.291	1.181
Uponor PP-RCT Reducing Tee, Mechanical, 10" x 10" x 3", SDR 17.6, Butt to Socket Fusion	PR174851030	15.748	15.748	15.551	20.472	31.496	25.394	9.843	9.843	19.173	1.299
Uponor PP-RCT Reducing Tee, Mechanical, 10" x 10" x 4", SDR 17.6, Butt to Socket Fusion	PR174851040	15.748	15.748	15.551	20.472	31.496	25.394	9.843	9.843	18.898	1.575
Uponor PP-RCT Reducing Tee, Mechanical, 12" x 12" x 3", SDR 17.6, Butt to Socket Fusion	PR174851230	19.783	19.783	18.307	24.508	39.567	30.709	12.402	12.402	23.209	1.299
Uponor PP-RCT Reducing Tee, Mechanical, 12" x 12" x 4", SDR 17.6, Butt to Socket Fusion	PR174851240	19.783	19.783	18.307	24.508	39.567	30.709	12.402	12.402	22.933	1.575
Uponor PP-RCT Reducing Tee, Mechanical, 6" x 6" x 2 1/2", SDR 17.6, Butt to Socket Fusion	PR174856625	12.598	12.598	14.173	17.323	25.197	20.472	6.299	6.299	16.142	1.181
Uponor PP-RCT Reducing Tee, Mechanical, 6" x 6" x 3", SDR 17.6, Butt to Socket Fusion	PR174856630	12.598	12.598	14.173	17.323	25.197	20.472	6.299	6.299	16.024	1.299
Uponor PP-RCT Reducing Tee, Mechanical, 8" x 8" x 2 1/2", SDR 17.6, Butt to Socket Fusion	PR174858825	13.78	13.78	14.567	18.504	27.559	22.441	7.874	7.874	17.323	1.181
Uponor PP-RCT Reducing Tee, Mechanical, 8" x 8" x 3", SDR 17.6, Butt to Socket Fusion	PR174858830	13.78	13.78	14.567	18.504	27.559	22.441	7.874	7.874	17.205	1.299
Uponor PP-RCT Reducing Tee, Mechanical, 10" x 10" x 2 1/2", SDR 9, Butt to Socket Fusion	PR9485101025	15.748	15.748	15.551	20.472	31.496	25.394	9.843	9.843	19.291	1.181
Uponor PP-RCT Reducing Tee, Mechanical, 10" x 10" x 3", SDR 9, Butt to Socket Fusion	PR9485101030	15.748	15.748	15.551	20.472	31.496	25.394	9.843	9.843	19.173	1.299

Uponor PP-RCT Reducing Tee, Mechanical, 10" x 10" x 4", SDR 9, Butt to Socket Fusion	PR9485101040	15.748	15.748	15.551	20.472	31.496	25.394	9.843	9.843	18.898	1.575
Uponor PP-RCT Reducing Tee, Mechanical, 12" x 12" x 3", SDR 9, Butt to Socket Fusion	PR9485121230	19.783	19.783	18.307	24.508	39.567	30.709	12.402	12.402	23.209	1.299
Uponor PP-RCT Reducing Tee, Mechanical, 12" x 12" x 4", SDR 9, Butt to Socket Fusion	PR9485121240	19.783	19.783	18.307	24.508	39.567	30.709	12.402	12.402	22.933	1.575
Uponor PP-RCT Reducing Tee, Mechanical, 6" x 6" x 2 1/2", SDR 9, Butt to Socket Fusion	PR94856625	12.598	12.598	14.173	17.323	25.197	20.472	6.299	6.299	16.142	1.181
Uponor PP-RCT Reducing Tee, Mechanical, 6" x 6" x 3", SDR 9, Butt to Socket Fusion	PR94856630	12.598	12.598	14.173	17.323	25.197	20.472	6.299	6.299	16.024	1.299
Uponor PP-RCT Reducing Tee, Mechanical, 8" x 8" x 2 1/2", SDR 9, Butt to Socket Fusion	PR94858825	13.78	13.78	14.567	18.504	27.559	22.441	7.874	7.874	17.323	1.181
Uponor PP-RCT Reducing Tee, Mechanical, 8" x 8" x 3", SDR 9, Butt to Socket Fusion	PR94858830	13.78	13.78	14.567	18.504	27.559	22.441	7.874	7.874	17.205	1.299
Uponor PP-RCT Reducing Tee, Mechanical, 8" x 8" x 4", SDR 9, Butt to Socket Fusion	PR94858840	13.78	13.78	14.567	18.504	27.559	22.441	7.874	7.874	16.929	1.575

Part name	Part no.	Equivalent length branch [ft]	Equivalent length through [ft]	End Type 1	End Type 2	End Type 3	Operating Temperature 1 [°F]	Operating Temperature 2 [°F]	Operating Temperature 3 [°F]	Weight per UOM [lbs/UOM]
Uponor PP-RCT Reducing Tee, Mechanical, 10" x 10" x 2 1/2", SDR 11, Butt to Socket Fusion	PR114851025	67.1	8.4	Butt 10"	Butt 10"	Socket 2-1/2"	73 °F (23 °C) at 215 psi (23 °C)	140 °F (60 °C) at 120 psi (60 °C)	180 °F (82 °C) at 80 psi (82 °C)	38.13
Uponor PP-RCT Reducing Tee, Mechanical, 10" x 10" x 3", SDR 11, Butt to Socket Fusion	PR114851030	63.8	8.4	Butt 10"	Butt 10"	Socket 3"	73 °F (23 °C) at 215 psi (23 °C)	140 °F (60 °C) at 120 psi (60 °C)	180 °F (82 °C) at 80 psi (82 °C)	38.12
Uponor PP-RCT Reducing Tee, Mechanical, 10" x 10" x 4", SDR 11, Butt to Socket Fusion	PR114851040	60.4	8.4	Butt 10"	Butt 10"	Socket 4"	73 °F (23 °C) at 215 psi (23 °C)	140 °F (60 °C) at 120 psi (60 °C)	180 °F (82 °C) at 80 psi (82 °C)	38.31
Uponor PP-RCT Reducing Tee, Mechanical, 12" x 12" x 3", SDR 11, Butt to Socket Fusion	PR114851230	84.5	10.6	Butt 12"	Butt 12"	Socket 3"	73 °F (23 °C) at 215 psi (23 °C)	140 °F (60 °C) at 120 psi (60 °C)	180 °F (82 °C) at 80 psi (82 °C)	75.03
Uponor PP-RCT Reducing Tee, Mechanical, 12" x 12" x 4", SDR 11, Butt to Socket Fusion	PR114851240	80.3	10.6	Butt 12"	Butt 12"	Socket 4"	73 °F (23 °C) at 215 psi (23 °C)	140 °F (60 °C) at 120 psi (60 °C)	180 °F (82 °C) at 80 psi (82 °C)	74.82
Uponor PP-RCT Reducing Tee, Mechanical, 6" x 6" x 2 1/2", SDR 11, Butt to Socket Fusion	PR114856625	38.7	5.4	Butt 6"	Butt 6"	Socket 2-1/2"	73 °F (23 °C) at 215 psi (23 °C)	140 °F (60 °C) at 120 psi (60 °C)	180 °F (82 °C) at 80 psi (82 °C)	13.1
Uponor PP-RCT Reducing Tee, Mechanical, 6" x 6" x 3", SDR 11, Butt to Socket Fusion	PR114856630	36.5	5.4	Butt 6"	Butt 6"	Socket 3"	73 °F (23 °C) at 215 psi (23 °C)	140 °F (60 °C) at 120 psi (60 °C)	180 °F (82 °C) at 80 psi (82 °C)	13.21
Uponor PP-RCT Reducing Tee, Mechanical, 8" x 8" x 2 1/2", SDR 11, Butt to Socket Fusion	PR114858825	51	6.7	Butt 8"	Butt 8"	Socket 2-1/2"	73 °F (23 °C) at 215 psi (23 °C)	140 °F (60 °C) at 120 psi (60 °C)	180 °F (82 °C) at 80 psi (82 °C)	21.81
Uponor PP-RCT Reducing Tee, Mechanical, 8" x 8" x 3", SDR 11, Butt to Socket Fusion	PR114858830	48.3	6.7	Butt 8"	Butt 8"	Socket 3"	73 °F (23 °C) at 215 psi (23 °C)	140 °F (60 °C) at 120 psi (60 °C)	180 °F (82 °C) at 80 psi (82 °C)	21.84
Uponor PP-RCT Reducing Tee, Mechanical, 10" x 10" x 2 1/2", SDR 17.6 Butt to Socket Fusion	PR174851025	72.7	9.1	Butt 10"	Butt 10"	Socket 2-1/2"	73 °F (23 °C) at 130 psi (23 °C)	140 °F (60 °C) at 70 psi (60 °C)	180 °F (82 °C) at 50 psi (82 °C)	24.91
Uponor PP-RCT Reducing Tee, Mechanical, 10" x 10" x 3", SDR 17.6, Butt to Socket Fusion	PR174851030	69	9.1	Butt 10"	Butt 10"	Socket 3"	73 °F (23 °C) at 130 psi (23 °C)	140 °F (60 °C) at 70 psi (60 °C)	180 °F (82 °C) at 50 psi (82 °C)	24.94
Uponor PP-RCT Reducing Tee, Mechanical, 10" x 10" x 4", SDR 17.6, Butt to Socket Fusion	PR174851040	65.4	9.1	Butt 10"	Butt 10"	Socket 4"	73 °F (23 °C) at 130 psi (23 °C)	140 °F (60 °C) at 70 psi (60 °C)	180 °F (82 °C) at 50 psi (82 °C)	25.26
Uponor PP-RCT Reducing Tee, Mechanical, 12" x 12" x 3", SDR 17.6, Butt to Socket Fusion	PR174851230	91.6	11.5	Butt 12"	Butt 12"	Socket 3"	73 °F (23 °C) at 130 psi (23 °C)	140 °F (60 °C) at 70 psi (60 °C)	180 °F (82 °C) at 50 psi (82 °C)	48.57
Uponor PP-RCT Reducing Tee, Mechanical, 12" x 12" x 4", SDR 17.6, Butt to Socket Fusion	PR174851240	87.1	11.5	Butt 12"	Butt 12"	Socket 4"	73 °F (23 °C) at 130 psi (23 °C)	140 °F (60 °C) at 70 psi (60 °C)	180 °F (82 °C) at 50 psi (82 °C)	48.87
Uponor PP-RCT Reducing Tee, Mechanical, 6" x 6" x 2 1/2", SDR 17.6, Butt to Socket Fusion	PR174856625	41.9	5.8	Butt 6"	Butt 6"	Socket 2-1/2"	73 °F (23 °C) at 130 psi (23 °C)	140 °F (60 °C) at 70 psi (60 °C)	180 °F (82 °C) at 50 psi (82 °C)	8.66
Uponor PP-RCT Reducing Tee, Mechanical, 6" x 6" x 3", SDR 17.6, Butt to Socket Fusion	PR174856630	39.5	5.8	Butt 6"	Butt 6"	Socket 3"	73 °F (23 °C) at 130 psi (23 °C)	140 °F (60 °C) at 70 psi (60 °C)	180 °F (82 °C) at 50 psi (82 °C)	8.73
Uponor PP-RCT Reducing Tee, Mechanical, 8" x 8" x 2 1/2", SDR 17.6, Butt to Socket	PR174858825	55.2	7.3	Butt 8"	Butt 8"	Socket 2-1/2"	73 °F (23 °C) at 130 psi (23 °C)	140 °F (60 °C) at 70 psi (60 °C)	180 °F (82 °C) at 50 psi (82 °C)	14.34

Fusion										
Uponor PP-RCT Reducing Tee, Mechanical, 8" x 8" x 3", SDR 17.6, Butt to Socket Fusion	PR174858830	52.3	7.3	Butt 8"	Butt 8"	Socket 3"	73 °F (23 °C) at 130 psi (23 °C)	140 °F (60 °C) at 70 psi (60 °C)	180 °F (82 °C) at 50 psi (82 °C)	14.47
Uponor PP-RCT Reducing Tee, Mechanical, 10" x 10" x 2 1/2", SDR 9, Butt to Socket Fusion	PR9485101025	62	7.7	Butt 10"	Butt 10"	Socket 2-1/2"	73 °F (23 °C) at 265 psi (23 °C)	140 °F (60 °C) at 150 psi (60 °C)	180 °F (82 °C) at 100 psi (82 °C)	46.09
Uponor PP-RCT Reducing Tee, Mechanical, 10" x 10" x 4", SDR 9, Butt to Socket Fusion	PR9485101030	60	7.7	Butt 10"	Butt 10"	Socket 3"	73 °F (23 °C) at 265 psi (23 °C)	140 °F (60 °C) at 150 psi (60 °C)	180 °F (82 °C) at 100 psi (82 °C)	46
Uponor PP-RCT Reducing Tee, Mechanical, 10" x 10" x 4", SDR 9, Butt to Socket Fusion	PR9485101040	56.8	7.7	Butt 10"	Butt 10"	Socket 4"	73 °F (23 °C) at 265 psi (23 °C)	140 °F (60 °C) at 150 psi (60 °C)	180 °F (82 °C) at 100 psi (82 °C)	45.93
Uponor PP-RCT Reducing Tee, Mechanical, 12" x 12" x 3", SDR 9, Butt to Socket Fusion	PR9485121230	78.2	9.1	Butt 12"	Butt 12"	Socket 3"	73 °F (23 °C) at 265 psi (23 °C)	140 °F (60 °C) at 150 psi (60 °C)	180 °F (82 °C) at 100 psi (82 °C)	90.65
Uponor PP-RCT Reducing Tee, Mechanical, 12" x 12" x 4", SDR 9, Butt to Socket Fusion	PR9485121240	75.5	9.1	Butt 12"	Butt 12"	Socket 4"	73 °F (23 °C) at 265 psi (23 °C)	140 °F (60 °C) at 150 psi (60 °C)	180 °F (82 °C) at 100 psi (82 °C)	90.26
Uponor PP-RCT Reducing Tee, Mechanical, 6" x 6" x 2 1/2", SDR 9, Butt to Socket Fusion	PR94856625	35.4	5	Butt 6"	Butt 6"	Socket 2-1/2"	73 °F (23 °C) at 265 psi (23 °C)	140 °F (60 °C) at 150 psi (60 °C)	180 °F (82 °C) at 100 psi (82 °C)	15.68
Uponor PP-RCT Reducing Tee, Mechanical, 6" x 6" x 3", SDR 9, Butt to Socket Fusion	PR94856630	33.4	5	Butt 6"	Butt 6"	Socket 3"	73 °F (23 °C) at 265 psi (23 °C)	140 °F (60 °C) at 150 psi (60 °C)	180 °F (82 °C) at 100 psi (82 °C)	15.72
Uponor PP-RCT Reducing Tee, Mechanical, 8" x 8" x 2 1/2", SDR 9, Butt to Socket Fusion	PR94858825	48.1	6.2	Butt 8"	Butt 8"	Socket 2-1/2"	73 °F (23 °C) at 265 psi (23 °C)	140 °F (60 °C) at 150 psi (60 °C)	180 °F (82 °C) at 100 psi (82 °C)	26.28
Uponor PP-RCT Reducing Tee, Mechanical, 8" x 8" x 3", SDR 9, Butt to Socket Fusion	PR94858830	45.6	6.2	Butt 8"	Butt 8"	Socket 3"	73 °F (23 °C) at 265 psi (23 °C)	140 °F (60 °C) at 150 psi (60 °C)	180 °F (82 °C) at 100 psi (82 °C)	26.22
Uponor PP-RCT Reducing Tee, Mechanical, 8" x 8" x 4", SDR 9, Butt to Socket Fusion	PR94858840	43.3	6.2	Butt 8"	Butt 8"	Socket 4"	73 °F (23 °C) at 265 psi (23 °C)	140 °F (60 °C) at 150 psi (60 °C)	180 °F (82 °C) at 100 psi (82 °C)	26.44

Part name	Part no.	Codes	Standards	Listings
Uponor PP-RCT reducing tees, mechanical (butt to socket fusion)	All	CMC IMC UMC	ASTM E84 NSF/ANSI 14 ASTM F2389 CSA B137.11	ICC-ES-PMG 1106 IAPMO-R&T 8358 QAI P321-5 IAPMO K-12775

Installation	Related applications
Use approved socket-fusion connection methods. Refer to the Uponor PP-RCT manual for complete details.	Hydronic heating and cooling systems Industrial

Footnotes	Contact information
-	<p>Uponor Inc. 5925 148th Street West Apple Valley, MN 55124 T 800.321.4739 F 952.891.2008</p> <p>Uponor Ltd. 6510 Kennedy Road Mississauga, ON L5T 2X4 T 888.594.7726 F 800.638.9517</p>