

# Uponor PP-RCT 45 elbows, mechanical (butt fusion)

## Project Information

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

## Product information and application use

Use Uponor PP-RCT 45 fabricated elbows 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]	Equivalent length through [ft]	End Type 1	End Type 2	Operating Temperature 1 [°F]	Operating Temperature 2 [°F]	Operating Temperature 3 [°F]
Uponor PP-RCT 45 Elbow, Mechanical, 6" x 6", SDR 11	PR1147645600	19.957	12.72	6.299	0.58	6.4	Butt 6"	Butt 6"	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)
Uponor PP-RCT 45 Elbow, Mechanical, 10" x 10", SDR 17.6	PR174764510	30.207	19.477	9.843	0.56	10.9	Butt 10"	Butt 10"	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)
Uponor PP-RCT 45 Elbow, Mechanical, 12" x 12", SDR 17.6	PR174764512	35.512	23.478	12.402	0.705	13.7	Butt 12"	Butt 12"	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)
Uponor PP-RCT 45 Elbow, Mechanical, 8" x 8", SDR 17.6	PR174764580	33.606	19.493	7.874	0.448	8.7	Butt 8"	Butt 8"	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)
Uponor PP-RCT 45 Elbow, Mechanical, 6" x 6", SDR 9	PR947645600	19.756	12.638	6.299	0.7	6	Butt 6"	Butt 6"	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)
Uponor PP-RCT 45 Elbow, Mechanical, 6" x 6", SDR 17.6	PR174764560	19.756	12.638	6.299	0.358	7	Butt 6"	Butt 6"	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)
Uponor PP-RCT 45 Elbow, Mechanical, 10" x 10", SDR 11	PR114764510	29.223	19.045	9.843	0.894	10.1	Butt 10"	Butt 10"	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)
Uponor PP-RCT 45 Elbow, Mechanical, 12" x 12", SDR 11	PR114764512	34.402	23	12.402	1.126	12.7	Butt 12"	Butt 12"	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)
Uponor PP-RCT 45 Elbow, Mechanical, 8" x 8", SDR 11	PR1147645800	32.766	19.12	7.874	0.717	8.1	Butt 8"	Butt 8"	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)
Uponor PP-RCT 45 Elbow, Mechanical, 10" x 10", SDR 9	PR94764510	29.223	19.045	9.843	1.098	9.61	Butt 10"	Butt 10"	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)
Uponor PP-RCT 45 Elbow, Mechanical, 12" x 12", SDR 9	PR94764512	34.402	23	12.402	1.386	12.01	Butt 12"	Butt 12"	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)
Uponor PP-RCT 45 Elbow, Mechanical, 8" x 8", SDR 9	PR947645800	32.766	19.12	7.874	0.882	7.61	Butt 8"	Butt 8"	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)

Part name	Part no.	Material group	Weight per UOM [lbs/UOM]
Uponor PP-RCT 45 Elbow, Mechanical, 6" x 6", SDR 11	PR1147645600	-	7.01
Uponor PP-RCT 45 Elbow, Mechanical, 10" x 10", SDR 17.6	PR174764510	PP-RCT	17.59

Uponor PP-RCT 45 Elbow, Mechanical, 12" x 12", SDR 17.6	PR174764512	PP-RCT	32.06
Uponor PP-RCT 45 Elbow, Mechanical, 8" x 8", SDR 17.6	PR174764580	PP-RCT	13.06
Uponor PP-RCT 45 Elbow, Mechanical, 6" x 6", SDR 9	PR947645600	PP-RCT	8.43
Uponor PP-RCT 45 Elbow, Mechanical, 6" x 6", SDR 17.6	PR174764560	PP-RCT	4.72
Uponor PP-RCT 45 Elbow, Mechanical, 10" x 10", SDR 11	PR114764510	PP-RCT	24.25
Uponor PP-RCT 45 Elbow, Mechanical, 12" x 12", SDR 11	PR114764512	PP-RCT	44.9
Uponor PP-RCT 45 Elbow, Mechanical, 8" x 8", SDR 11	PR1147645800	PP-RCT	18.15
Uponor PP-RCT 45 Elbow, Mechanical, 10" x 10", SDR 9	PR94764510	PP-RCT	29.15
Uponor PP-RCT 45 Elbow, Mechanical, 12" x 12", SDR 9	PR94764512	PP-RCT	53.99
Uponor PP-RCT 45 Elbow, Mechanical, 8" x 8", SDR 9	PR947645800	PP-RCT	21.83

Part name	Part no.	Codes	Standards	Listings
Uponor PP-RCT 45 elbows, mechanical (butt 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 butt-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>