

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



## Project Information

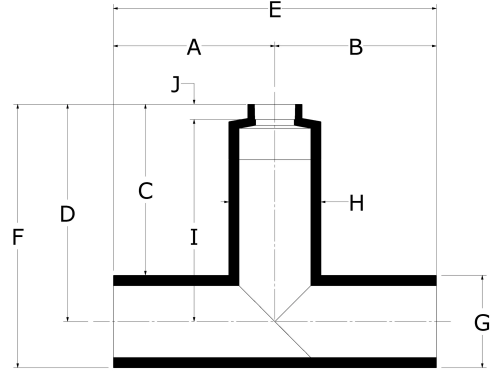
|                                |                 |
|--------------------------------|-----------------|
| Job name:                      | Location:       |
| Engineer:                      | Date submitted: |
| Contractor:                    | Submitted by:   |
| Manufacturer's representative: | Approved 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<br>Industrial |

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