

Technical

Dynatherm PP-RCT Pipe System

Dynatherm PP-RCT Technical Information

**Description:**

Dynatherm PP-RCT piping system can be used in sanitary and heating installations. It eliminates corrosion issues and can be used for both warm and cold water. Joining methods used are butt welding, Electro Fusion and socket fusion. Dynatherm offers longer life, higher temperature rating and higher flow rates than conventional PPR systems. Manufactured in Germany for high quality performance. Dynatherm is used extensively in plumbing and dairy applications.

Range:

Metric O.D. series from 16mm up to 250mm O.D. (selected configurations).

Pressure Rating:

PN16 pipe and fittings available as listed unless stated otherwise.

N.B. Longevity must be adjusted if pipe and fittings are to be used at excessively high temperatures, please consult Waterworks.

Materials:

PP-RCT (Polypropylene Random Copolymer with modified crystalline structure and enhanced temperature performance).

General:

- Easy to install
- Excellent chemical and corrosion resistance
- Up to 26% higher flow capacity than conventional PPR systems
- Environmentally friendly
- Suitable for potable water
- Suitable for chilled and warm water
- 50-year design life
- Made from food grade raw material
- High strength and flexibility
- Low thermal conductivity

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PN16 PP-RCT/Climatec Faser Pipe Support Spacing (m)

Diameter (mm)	Spacing in Metres						
	20°C	30°C	40°C	50°C	60°C	70°C	80°C
20 SDR7.4	1.00	0.90	0.85	0.85	0.80	0.70	0.65
25 SDR7.4	1.05	1.00	0.95	0.90	0.85	0.80	0.75
32 SDR9	1.20	1.15	1.10	1.05	1.00	0.95	0.90
40 SDR11	1.20	1.15	1.10	1.05	1.00	0.95	0.90
50 SDR11	1.40	1.35	1.30	1.25	1.20	1.15	1.10
63 SDR11	1.50	1.45	1.40	1.35	1.30	1.25	1.20
75 SDR11	1.65	1.60	1.55	1.50	1.45	1.40	1.30
90 SDR11	1.75	1.70	1.65	1.60	1.55	1.50	1.35
110 SDR11	1.85	1.80	1.75	1.65	1.60	1.55	1.45
125 SDR11	2.05	1.95	1.90	1.80	1.70	1.60	1.50
160 SDR11	2.20	2.10	2.05	1.95	1.85	1.75	1.65

PN16 PP-RCT/Solid Wall Pipe Support Spacings (m)

Diameter (mm)	Spacing in Metres				
	20°C	30°C	40°C	50°C	60°C
20 SDR9	0.60	0.55	0.50	0.45	0.40
25 SDR9	0.75	0.70	0.65	0.60	0.55
32 SDR11	0.95	0.85	0.75	0.70	0.65
40 SDR11	1.00	0.95	0.90	0.85	0.75
50 SDR11	1.20	1.15	1.05	1.00	0.90
63 SDR11	1.40	1.30	1.20	1.10	1.00
75 SDR11	1.50	1.45	1.35	1.25	1.15
90 SDR11	1.60	1.55	1.50	1.45	1.30
110 SDR11	1.80	1.70	1.60	1.55	1.40
125 SDR11	1.90	1.85	1.75	1.65	1.50
160 SDR11	2.00	1.95	1.85	1.75	1.60
200 SDR11	2.45	2.35	2.25	2.15	2.05
225 SDR11	2.60	2.50	2.40	2.30	2.10
250 SDR11	2.75	2.65	2.55	2.45	2.35
315 SDR11	2.90	2.80	2.70	2.60	2.50

Socket Fusion Weld Times

Diameter (mm)	Heating Time		Welding Time	Cooling Time
	at 20°C	<+5°C		
16	5 sec	10 sec	4 sec	2 min
20	5 sec	10 sec	4 sec	2 min
25	7 sec	14 sec	4 sec	2 min
32	8 sec	16 sec	6 sec	4 min
40	12 sec	24 sec	6 sec	4 min
50	18 sec	36 sec	6 sec	4 min
63	24 sec	48 sec	8 sec	6 min
75	30 sec	60 sec	8 sec	6 min
90	40 sec	80 sec	10 sec	8 min
110	50 sec	100 sec	10 sec	8 min
125	60 sec	120 sec	10 sec	8 min
Weld-in Saddles	30 sec (all sizes)	45 sec (all sizes)	6 sec	6 min