



## CHILLED WATER iH2O PRE-INSULATED PIPING (R>2.2)

SERVICE PIPE/CASING: HDPE/SPIRAL OFF WHITE

SPECIFICATION: SDR17

Service Pipe Material:

PE100 S1 HDPE (k = 0.43 W/m<sup>o</sup>K)

Insulation Material:

DPE1783R PUR (k = 0.024 W/m<sup>o</sup>K)

Casing Material:

Painted Steel (k = 50 W/m<sup>o</sup>K)

Pipe Diameter Diameter (mm)	Equivalent Imperial & Flange Compatibility <sup>(1)</sup> (inch)	Pressure Class		NB (mm)	Casing (Off White--Spiral Wound) --- Outer Diameter (mm)																												Dry & Wet mass of iH2O insulated pipe* (standard stock items)	
					102		127		152		178		203		229		254		305		330		356		400		450		508		610			
		PUR_Thk (mm)	R-Val (m²K/W)		PUR_Thk (mm)	R-Val (m²K/W)	PUR_Thk (mm)	R-Val (m²K/W)	PUR_Thk (mm)	R-Val (m²K/W)	PUR_Thk (mm)	R-Val (m²K/W)	PUR_Thk (mm)	R-Val (m²K/W)	PUR_Thk (mm)	R-Val (m²K/W)	PUR_Thk (mm)	R-Val (m²K/W)	PUR_Thk (mm)	R-Val (m²K/W)	PUR_Thk (mm)	R-Val (m²K/W)	PUR_Thk (mm)	R-Val (m²K/W)	PUR_Thk (mm)	R-Val (m²K/W)	PUR_Thk (mm)	R-Val (m²K/W)	PUR_Thk (mm)	R-Val (m²K/W)	Dry Mass of insulated pipe (kg/m)	Wet Mass of insulated pipe (kg/m)		
20	1½"	16	11	16.4	41.0	3.44	53.5	4.85																							1.9	2.1		
25	¾"	16	11	20.5	38.5	2.97	51.0	4.27	63.5	5.67																					1.9	2.2		
32	1"	16	11	26.2	35.0	2.45	47.5	3.62	60.0	4.90																					2.5	3.1		
40	1 ¼"	16	11	32.7	31.0	1.98	43.5	3.04	56.0	4.20	69.0	5.50																			2.7	3.5		
50	1 ½"	16	11	40.9			38.5	2.46	51.0	3.50	64.0	4.68																			3.5	4.8		
63	2"	16	11	51.5					44.5	2.78	57.5	3.83	70.0	4.92																	4.5	6.5		
75	2 ½"	16	11	61.4					38.5	2.24	51.5	3.20	64.0	4.19																	4.8	7.8		
90	2 ½" <sup>(1)</sup> & 3"	16	11	73.6							44.0	2.53	56.5	3.43	69.5	4.44															6.0	10.3		
110	3" <sup>(1)</sup> & 4"	10	17	97.1									46.5	2.59	59.5	3.49	72.0	4.41													6.7	14.1		
125	5"	10	17	110.3									39.0	2.05	52.0	2.88	64.5	3.74													7.1	16.7		
140	4" <sup>(1)</sup> & 5"	10	17	123.5											44.5	2.35	57.0	3.15	82.5	4.93											8.4	20.4		
160	5" <sup>(1)</sup> & 6"	10	17	141.2													47.0	2.45	72.5	4.09											9.2	24.8		
180	5" <sup>(1)</sup> & 6"	10	17	158.8													37.0	1.83	62.5	3.35	75.0	4.16									11.8	31.6		
200	6" <sup>(1)</sup> & "8	10	17	176.5															52.5	2.69	65.0	3.44									12.8	37.3		
225	8"	10	17	198.5															40.0	1.95	52.5	2.64	65.5	3.41							15.1	46.0		
250	8" <sup>(1)</sup> & 10"	10	17	220.6																	40.0	1.93	53.0	2.64	75.0	3.92					17.6	55.9		
280	10"	10	17	247.1																		38.0	1.81	60.0	2.99	85.0	4.45				21.5	69.5		
315	10" <sup>(1)</sup> & 12"	10	17	277.9																				42.5	2.02	67.5	3.36				26.5	87.2		
355	12" <sup>(1)</sup> & 14"	10	17	313.2																							47.5	2.26	76.5	3.81		32.8	109.9	
400	14" <sup>(1)</sup> & 16"	10	17	352.9																									54.0	2.57	105.0	5.38	37.1	135.0
450	16" <sup>(1)</sup> & 18"	10	17	397.1																											80.0	3.90	48.3	172.2
500	16" <sup>(1)</sup> & 20"	10	17	441.2																											55.0	2.58	54.3	207.2

BLUE BLOCKS DENOTE STANDARD STOCK ITEMS

\*Dry mass of insulated pipe = Service pipe mass + PUR insulation mass + Casing mass,

Wet mass of insulated pipe = Dry mass of insulated pipe + Service fluid (water) mass

NOTE<sup>(1)</sup> SPECIAL FULL FACE ADAPTOR FLANGE REQUIRED