



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

SERVICE PIPE/CASING: HDPE/SPIRAL GALV STEEL

SPECIFICATION: SDR17

Service Pipe Material:

PE100 S1 HDPE (k = 0.43 W/m^oK)

Insulation Material:

DPE1783R PUR (k = 0.024 W/m^oK)

Casing Material:

Z275 Galvanized Steel (k = 50 W/m^oK)

Pipe Diameter Diameter (mm)	Equivalent Imperial & Flange Compatibility ⁽¹⁾ (inch)	Pressure Class		NB (mm)	Casing (Z275 Galvanized steel--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)	PUR_Thk (mm)	R-Val (m²K/W)	Dry Mass of insulated pipe (kg/m)	Wet Mass of insulated pipe (kg/m)
20	1/2"	16	11	16.4	41.0	3.44	53.5	4.85																								1.9	2.1	
25	3/4"	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 1/4"	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 1/2"	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 1/2"	16	11	61.4					38.5	2.24	51.5	3.20	64.0	4.19																			4.8	7.8
90	2 1/2" ⁽¹⁾ & 3"	16	11	73.6							44.0	2.53	56.5	3.43	69.5	4.44																	6.0	10.3
110	3" ⁽¹⁾ & 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" ⁽¹⁾ & 5"	10	17	123.5											44.5	2.35	57.0	3.15	82.5	4.93													8.4	20.4
160	5" ⁽¹⁾ & 6"	10	17	141.2													47.0	2.45	72.5	4.09													9.2	24.8
180	5" ⁽¹⁾ & 6"	10	17	158.8													37.0	1.83	62.5	3.35	75.0	4.16											11.8	31.6
200	6" ⁽¹⁾ & "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" ⁽¹⁾ & 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" ⁽¹⁾ & 12"	10	17	277.9																				42.5	2.02	67.5	3.36						26.5	87.2
355	12" ⁽¹⁾ & 14"	10	17	313.2																						47.5	2.26	76.5	3.81				32.8	109.9
400	14" ⁽¹⁾ & 16"	10	17	352.9																								54.0	2.57	105.0	5.38	37.1	135.0	
450	16" ⁽¹⁾ & 18"	10	17	397.1																										80.0	3.90	48.3	172.2	
500	16" ⁽¹⁾ & 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⁽¹⁾ SPECIAL FULL FACE ADAPTOR FLANGE REQUIRED