

# iH<sup>2</sup>O INSULATED PIPE



## CHILLED WATER iH<sub>2</sub>O PRE-INSULATED PIPING (R>2.2)

SERVICE PIPE/CASING: HDPE/HDPE BLACK

SPECIFICATION: SDR17

**Service Pipe Material:**

PE100 S1 HDPE (k = 0.43 W/m<sup>0</sup>K)

**Insulation Material:**

DPE1783R PUR (k = 0.024 W/m<sup>0</sup>K)

**Casing Material:**

PE100 S1 HDPE (k = 0.43 W/m<sup>0</sup>K)

Pipe Diameter (mm)	Equivalent Imperial & Flange Compability <sup>(1)</sup> (inch)	Pressure Class		NB (mm)	Casing (PE100 S1 HDPE Black) --- OD/ID (mm)																														Dry & Wet mass of iH2O insulated pipe* (standard stock items)	
		110	103		160	150	180	169	200	188	225	211	250	235	280	263	315	296	355	338	400	380	450	428	500	476	560	533	630	599	Dry Mass of insulated pipe (kg/m)	Wet Mass of insulated pipe (kg/m)				
		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)						
20	1/2"	16	11	16.4	41.7	3.52	65.2	6.28																									1.6	1.8		
25	3/4"	16	11	20.5	39.2	3.04	62.7	5.59																									1.6	1.9		
32	1"	16	11	26.2	35.7	2.52	59.2	4.82	68.5	5.84																							3.3	3.9		
40	1 1/4"	16	11	32.7	31.7	2.04	55.2	4.13	64.5	5.06																							3.5	4.3		
50	1 1/2"	16	11	40.9			50.2	3.44	59.5	4.28																							3.7	5.0		
63	2"	16	11	51.5			43.7	2.73	53.0	3.48	62.4	4.27																					4.8	6.9		
75	2 1/2"	16	11	61.4			37.7	2.19	47.0	2.87	56.4	3.60	68.2	4.56																			6.1	9.0		
90	2 1/2" <sup>(1)</sup> & 3"	16	11	73.6					39.5	2.24	48.9	2.89	60.7	3.77																			6.6	10.8		
110	3" <sup>(1)</sup> & 4"	10	17	97.1							38.9	2.11	50.7	2.88	62.4	3.71																	7.7	15.1		
125	5"	10	17	110.3									43.2	2.33	54.9	3.10	69.0	4.08															9.6	19.2		
140	4" <sup>(1)</sup> & 5"	10	17	123.5									35.7	1.84	47.4	2.55	61.5	3.47															10.1	22.1		
160	5" <sup>(1)</sup> & 6"	10	17	141.2											37.4	1.90	51.5	2.75	68.0	3.81													12.8	28.5		
180	5" <sup>(1)</sup> & 6"	10	17	158.8													41.5	2.11	58.0	3.09	78.8	4.44											16.2	36.0		
200	6" <sup>(1)</sup> & "8	10	17	176.5															48.0	2.45	68.8	3.70											17.2	41.6		
225	8"	10	17	198.5																	35.5	1.73	56.3	2.89	77.7	4.19							19.8	50.8		
250	8" <sup>(1)</sup> & 10"	10	17	220.6																			43.8	2.15	65.2	3.36							24.9	63.1		
280	10"	10	17	247.1																			50.2	2.47	74.0	3.82							26.9	74.9		
315	10" <sup>(1)</sup> & 12"	10	17	277.9																					56.5	2.78	80.3	4.12					34.1	94.7		
355	12" <sup>(1)</sup> & 14"	10	17	313.2																					36.5	1.73	60.3	2.95	88.8	4.55			42.5	119.6		
400	14" <sup>(1)</sup> & 16"	10	17	352.9																							37.8	1.79	66.3	3.24	99.6	5.10	53.6	151.4		
450	16" <sup>(1)</sup> & 18"	10	17	397.1																									41.3	1.95	74.6	3.65	67.8	191.6		
500	16" <sup>(1)</sup> & 20"	10	17	441.2																											49.6	2.35	73.8	226.6		

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

# iH<sup>2</sup>O INSULATED PIPE



## CHILLED WATER iH<sub>2</sub>O PRE-INSULATED PIPING (R>2.2)

SERVICE PIPE/CASING: HDPE/HDPE BLACK

SPECIFICATION: SDR13.6

**Service Pipe Material:**

PE100 S1 HDPE (k = 0.43 W/m<sup>0</sup>K)

**Insulation Material:**

DPE1783R PUR (k = 0.024 W/m<sup>0</sup>K)

**Casing Material:**

PE100 S1 HDPE (k = 0.43 W/m<sup>0</sup>K)

Pipe Diameter (mm)	Equivalent Imperial & Flange Compability <sup>(1)</sup> (inch)	Pressure Class		NB (mm)	Casing (PE100 S1 HDPE Black) --- OD/ID (mm)																														Dry & Wet mass of iH2O insulated pipe* (standard stock items)	
		110	103		160	150	180	169	200	188	225	211	250	235	280	263	315	296	355	338	400	380	450	428	500	476	560	533	630	599	Dry Mass of insulated pipe (kg/m)	Wet Mass of insulated pipe (kg/m)				
		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)						
20	1/2"	16	11	16.4	41.7	3.52	65.2	6.28																								1.6	1.8			
25	3/4"	16	11	20.5	39.2	3.04	62.7	5.59																								1.6	1.9			
32	1"	16	11	26.2	35.7	2.52	59.2	4.82	68.5	5.84																						3.3	3.9			
40	1 1/4"	16	11	32.7	31.7	2.04	55.2	4.13	64.5	5.06																						3.5	4.3			
50	1 1/2"	16	11	40.9			50.2	3.44	59.5	4.28																						3.7	5.0			
63	2"	16	11	51.5			43.7	2.73	53.0	3.48	62.4	4.27																				4.8	6.9			
75	2 1/2"	16	11	61.4			37.7	2.19	47.0	2.87	56.4	3.60	68.2	4.56																		6.1	9.0			
90	2 1/2" <sup>(1)</sup> & 3"	16	11	73.6					39.5	2.24	48.9	2.89	60.7	3.77																		6.6	10.8			
110	3" <sup>(1)</sup> & 4"	12.5	13.6	93.8							38.9	2.11	50.7	2.89	62.4	3.72																8.2	15.1			
125	5"	12.5	13.6	106.6									43.2	2.33	54.9	3.10	69.0	4.09														10.2	19.1			
140	4" <sup>(1)</sup> & 5"	12.5	13.6	119.4									35.7	1.84	47.4	2.55	61.5	3.47														10.9	22.1			
160	5" <sup>(1)</sup> & 6"	12.5	13.6	136.5											37.4	1.91	51.5	2.75	68.0	3.81												13.8	28.4			
180	5" <sup>(1)</sup> & 6"	12.5	13.6	153.5													41.5	2.12	58.0	3.10	78.8	4.44										17.5	36.0			
200	6" <sup>(1)</sup> & "8	12.5	13.6	170.6															48.0	2.45	68.8	3.71										18.7	41.6			
225	8"	12.5	13.6	191.9															35.5	1.74	56.3	2.89	77.7	4.19								21.7	50.7			
250	8" <sup>(1)</sup> & 10"	12.5	13.6	213.2																	43.8	2.16	65.2	3.37								27.3	63.0			
280	10"	12.5	13.6	238.8																		50.2	2.49	74.0	3.83							29.9	74.7			
315	10" <sup>(1)</sup> & 12"	12.5	13.6	268.7																					56.5	2.80	80.3	4.14				37.9	94.5			
355	12" <sup>(1)</sup> & 14"	12.5	13.6	302.8																					36.5	1.75	60.3	2.97	88.8	4.56		47.3	119.3			
400	14" <sup>(1)</sup> & 16"	12.5	13.6	341.2																							37.8	1.80	66.3	3.26	99.6	5.12	59.7	151.1		
450	16" <sup>(1)</sup> & 18"	12.5	13.6	383.8																												75.5	191.2			
500	16" <sup>(1)</sup> & 20"	12.5	13.6	426.5																												83.3	226.1			

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



# iH<sup>2</sup>O INSULATED PIPE



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

SERVICE PIPE/CASING: HDPE/HDPE BLACK

SPECIFICATION: SDR11

### Service Pipe Material:

PE100 S1 HDPE (k = 0.43 W/m<sup>0</sup>K)

### Insulation Material:

DPE1783R PUR (k = 0.024 W/m<sup>0</sup>K)

### Casing Material:

PE100 S1 HDPE (k = 0.43 W/m<sup>0</sup>K)

Pipe Diameter Diameter (mm)	Equivalent Imperial & Flange Compability <sup>(1)</sup> (inch)	Pressure Class		NB (mm)	Casing (PE100 S1 HDPE Black) --- OD/ID (mm)																														Dry & Wet mass of iH2O insulated pipe* (standard stock items)	
		110	103		160	150	180	169	200	188	225	211	250	235	280	263	315	296	355	338	400	380	450	428	500	476	560	533	630	599	Dry Mass of insulated pipe (kg/m)	Wet Mass of insulated pipe (kg/m)				
		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)						
20	1/2"	16	11	16.4	41.7	3.52	65.2	6.28																								1.6	1.8			
25	3/4"	16	11	20.5	39.2	3.04	62.7	5.59																								1.6	1.9			
32	1"	16	11	26.2	35.7	2.52	59.2	4.82	68.5	5.84																						3.3	3.9			
40	1 1/4"	16	11	32.7	31.7	2.04	55.2	4.13	64.5	5.06																						3.5	4.3			
50	1 1/2"	16	11	40.9			50.2	3.44	59.5	4.28																						3.7	5.0			
63	2"	16	11	51.5			43.7	2.73	53.0	3.48	62.4	4.27																				4.8	6.9			
75	2 1/2"	16	11	61.4			37.7	2.19	47.0	2.87	56.4	3.60	68.2	4.56																		6.1	9.0			
90	2 1/2" <sup>(1)</sup> & 3"	16	11	73.6					39.5	2.24	48.9	2.89	60.7	3.77																		6.6	10.8			
110	3" <sup>(1)</sup> & 4"	16	11	90.0							38.9	2.12	50.7	2.89	62.4	3.72																8.7	15.1			
125	5"	16	11	102.3									43.2	2.34	54.9	3.11	69.0	4.09														10.9	19.1			
140	4" <sup>(1)</sup> & 5"	16	11	114.5											47.4	2.56	61.5	3.48														11.7	22.0			
160	5" <sup>(1)</sup> & 6"	16	11	130.9											37.4	1.92	51.5	2.76	68.0	3.82												14.9	28.4			
180	5" <sup>(1)</sup> & 6"	16	11	147.3													41.5	2.12	58.0	3.10	78.8	4.45										18.9	35.9			
200	6" <sup>(1)</sup> & "8	16	11	163.6															48.0	2.46	68.8	3.72										20.4	41.5			
225	8"	16	11	184.1															35.5	1.75	56.3	2.91	77.7	4.21								23.9	50.5			
250	8" <sup>(1)</sup> & 10"	16	11	204.5																												30.0	62.9			
280	10"	16	11	229.1																												33.3	74.5			
315	10" <sup>(1)</sup> & 12"	16	11	257.7																												42.2	94.3			
355	12" <sup>(1)</sup> & 14"	16	11	290.5																												52.8	119.0			
400	14" <sup>(1)</sup> & 16"	16	11	327.3																												66.6	150.7			
450	16" <sup>(1)</sup> & 18"	16	11	368.2																												84.3	190.8			
500	16" <sup>(1)</sup> & 20"	10	11	409.1																												94.1	225.6			

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



## 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<sup>o</sup>K)

Insulation Material:

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

Casing Material:

Z275 Galvanized Steel (k = 50 W/m<sup>o</sup>K)

Pipe Diameter (mm)	Equivalent Imperial & Flange Compatibility <sup>(1)</sup> (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" <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





## 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)	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" <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