

FLANGE MATERIAL RAISED FACE ONLY	PIPE SIZE	GASKET TYPE (FULL FACE ONLY)	THICKNESS	PROPERTY CLASS OF BOLTS	
				CARBON STEEL	316 STAINLESS STEEL
DUCTILE IRON	DN100 TO DN750	ELASTOMERIC (EPDM) TYPE WA	3	4.6	A4-50
STEEL	DN100 TO DN500	ELASTOMERIC (EPDM) TYPE WA	3	4.6	A4-50
STEEL	DN500 TO DN750	COMPRESSED FIBRE	1.5	8.8	A4-70

NOTES:

1. THIS DRAWING TO BE READ IN CONJUNCTION WITH DTC/1145.

TABLE 2 - DIMENSIONS DI & STEEL FLANGES															
DN	OUTSIDE DIAMETER OF FLANGE	DIAMETER OF RAISED FACE	PITCH CIRCLE DIAMETER	NUMBER OF HOLES	DIAMETER OF HOLES	FASTENER SIZE AND THREAD	HEIGHT OF RAISED FACE	THICKNESS OF DI FLANGE	THICKNESS OF STEEL FLANGE	BOLT LENGTH L1			BOLT LENGTH L2		
										DI/DI	STEEL/STEEL	DI/STEEL	DI/DI	STEEL/STEEL	DI/STEEL
100	215	154	178	4	18	M16	3	20	13	75	65	65	75	65	75
150	280	211	235	8	18	M16	3	23	13	75	65	65	90	65	75
200	335	268	292	8	18	M16	3	23	19	75	65	75	90	75	75
225	370	300	24	8	18	M16	3	24	19	75	65	75	90	75	90
250	405	328	356	100	22	M20	3	24	19	90	70	75	90	75	90
300	455	378	406	12	22	M20	4	30	23	100	90	90	100	90	100
375	550	463	495	12	26	M24	4	33	30	120	100	120	120	120	20
450	640	552	584	12	26	M24	4	33	30	120	100	120	120	20	120
500	705	609	641	16	26	M24	4	35	38	120	120	120	120	130	120
600	825	720	756	16	30	M27	5	42	48	130	140	140	140	150	140
750	995	888	927	20	33	M30	5	47	56	140	160	150	150	170	160

DN	PE DN	OUTSIDE DIAMETER OF RING	INSIDE DIAMETER OF RING	PITCH CIRCLE DIAMETER	RING THICKNESS	PE STUB FLANGE THICKNESS	BOLT LENGTH L3	
		D	Di	P	T	T	DI	STEEL
100	125	215	140	178	13	25	90	90
150	180	280	178	235	13	30	100	90
200	-	-	-	-	-	-	-	-
225	-	-	-	-	-	-	-	-
250	250	405	290	356	16	35	120	120
300	315	455	345	406	19	35	120	120
375	-	-	-	-	-	-	-	-
450	450	640	480	584	25	46	150	140
500	500	705	533	641	29	60	170	170
600	630	825	660	756	32	60	180	200
750	-	-	-	-	-	-	-	-

DN	TORQUE Nm	
	GRADE 4.6 STEEL BOLTS	GRADE 316 CLASS 50
100	55	65
150	40	65
200	55	65
225	60	80
250	105	140
300	85	140
375	150	240
450	190	270
500	185	270
600	270	380
750	360	480

DN	TORQUE Nm	
	GRADE 4.6 STEEL BOLTS	GRADE 316 CLASS 50
100	58	58
150	58	58
200	58	58
225	58	58
250	120	100
300	120	100
375	192	168
450	192	168
500	192	168
	GRADE 8.8 STEEL BOLTS	GRADE 316 CLASS 70
600	965	702
750	1200	960

Sydney WATER

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ENGINEERING & ENVIRONMENTAL SERVICES

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ORIGINAL ISSUE

PJG

01/03/13

WATER MAINS
PN16 FLANGE CONNECTION DETAILS
DN100 TO DN750 - SHEET 2 OF 2

1146

ISSUE

DATE

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01/03/13