Pipe Outside Diameters & Flange Dimensions

Pipe Outside Diameters

Pressure Pipe

PIPE MATERIAL	ABBREVIATION	STANDARD	DESIGNATION	Nominal Size 50	65	80	100	125	150	175	200	225	250	300	350	375	400	450	500	525	600	675	750
Ductile Iron	DICL	AS/NZS 2280	Class K9 or K12	-	-	96	122	-	177	-	232	259	286	345	-	426	-	507	560	-	667	-	826
		ISO 2531/BS EN 545		-	-	98	118	-	170	-	222	-	274	326	378	-	429	480	532	-	635	-	-
Steel	MSCL	AS 1579	6mm Wall Thickness	-	-	-	114	-	168	-	219	257	273	324	356	406	457	508	559	-	660	-	813
	GWI	AS 1074		60	76	89	114	140	165	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polyvinyl Chloride	UPVC	AS/NZS 1477	Series 1 (White)	60	75	89	114	140	160	200	225	250	280	315	355	400	450	500	560	-	630	-	-
	MPVC	AS/NZS 4765																					
	OPVC	AS/NZS 4441	Series 2 (Blue)	-	-	-	122	-	177	-	232	259	286	345	-	426	-	507	560	-	667	-	-
Polyethylene	PE 80B or PE100	AS/NZS 4130	Class PN12.5 or PN16	63	-	90	110/ 125	160	180	-	250	280	315	355	-	450	-	-	-	-	-	-	-
Glass Reinforced Plastic	GRP	AS 3571	SN 5000 or SN10000	-	-	-	122	-	177	-	232	259	286	345	399	426	453	507	560	587	667	747	826
Copper	CU	AS 1432	Type A or B	51	64	76	102	127	152	-	203	229	-	-	-	-	-	-	-	-	-	-	-
Grey Cast Iron	CICL	AS 1724	Class B	-	-	-	122	-	177	-	232	259	286	334	-	413	-	492	545	-	650	-	-
		AS 2544	Class C	-	-	96	122	-	177	-	232	259	286	345	-	426	-	507	560	-	667	-	-
Asbestos Cement	AC	AS 1711	Class AB	-	-	96	122	-	177	-	232	259	286	334	-	413	-	492	-	572	650	-	-
			Class CD	-	-	96	122	-	177	-	232	259	286	345	-	426	-	507	-	587	667	747	826
Reinforced Concrete	RC	AS 4058	Class 2, 3 or 4	-	-	-	-	-	197	-	-	279	-	362	-	445	-	533	-	616	699	787	870

Non Pressure Pipe

PIPE MATERIAL	ABBREVIATION	STANDARD	DESIGNATION	Nominal Size 50	65	80	100	125	150	175	200	225	250	300	350	375	400	450	500	525	600	675	750
Grey Cast Iron	Soil Pipe	AS 1631		-	-	86	112	140	165	-	-	244	-	325	-	-	-	-	-	-	-	-	-
		EN 877		-	-	83	110	135	160	-	210	-	274	326	-	-	429	-	532	-	635	-	-
PVC	SWV	AS/NZS 1260		56	69	83	110	-	160	-	-	250	-	315	-	400	-	-	-	-	-	-	-
Vitrified Clay	VC	AS 1741		-	-	-	138	-	194	-	-	280	-	370	-	450	485	535	-	635	710	-	-
Fibre Reinforced Cement	FRC		Class X	-	-	-	124	-	179	-	261	-	-	345	-	426	-	510	-	594	679	-	-
Asbestos Cement	AC	AS1712	Class 35	-	-	-	120	-	177	-	230	257	283	336	-	419	-	497	-	576	657	-	-
			Class 50	-	-	-	122	-	183	-	236	262	289	344	-	425	-	505	-	585	664	-	-

Flange Dimensions

AS Standard Pressure

AS 4087

Drilling compatible with:
AS2129 Table C
AS2129 Table D

Class	Figure		Nominal Size 50	65	80	100	125	150	175	200	225	250	300	350	375	400	450	500	525	600	700	750
		Outside Diameter	150	165	185	215	(255)	280	-	335	370	405	455	525	550	580	640	705	(735)	825	(910)	995
		Pitch Circle Diameter	114	127	146	178	(210)	235	-	292	324	356	406	470	495	521	584	641	(673)	756	(845)	927
		No. of Holes	4	4	4	4	(8)	8	-	8	8	8	12	12	12	12	12	16	(16)	16	(20)	20
		Diameter of Holes	18	18	18	18	(18)	18	-	18	18	22	22	26	26	26	26	26	(26)	30	(30)	33
		Bolt Diameter	16	16	16	16	(16)	16	-	16	16	20	20	24	24	24	24	24	(24)	27	(27)	30
16	B5	-Ductile Iron	-	-	18	20	-	23	-	23	24	24	30	-	33	-	33	35	-	42	-	47
14	B2	-Cast Iron	-	-	19	22	(22)	22	-	25	25	25	29	32	32	32	35	38	(38)	41	(44)	48
14	B7	-Steel	11	11	11	11	(13)	15	-	19	19	19	23	30	30	30	30	38	(41)	48	-	48

AS High Pressure

AS 4087

Drilling compatible with:
AS2129 Table F
AS2129 Table H

Class	Figure		Nominal Size 50	65	80	100	125	150	175	200	225	250	300	350	375	400	450	500	525	600	700	750
		Outside Diameter	165	185	205	230	-	305	-	370	405	430	490	550	580	610	675	735	(760)	850	-	1015
		Pitch Circle Diameter	127	146	165	191	-	260	-	324	356	381	438	495	521	552	610	673	(699)	781	-	940
		No. of Holes	4	8	8	8	-	12	-	12	12	12	16	16	16	20	20	24	(24)	24	-	28
		Diameter of Holes	18	18	18	18	-	22	-	22	26	26	26	30	30	30	33	33	(33)	36	-	36
		Bolt Diameter	16	16	16	16	-	20	-	20	24	24	24	27	27	27	30	30	(30)	33	-	33
35	B6	-Ductile Iron	-	-	22	22	-	27	-	31	34	34	38	-	42	-	46	49	-	54	-	59
21	B3	-Cast Iron	-	-	19	22	-	25	-	29	29	32	32	35	35	35	38	41	(41)	44	-	51
35	B4	-Cast Iron	-	-	29	32	-	35	-	41	41	44	44	48	51	51	54	57	(60)	64	-	-
21	B8	-Steel	15	15	15	19	-	24	-	24	30	30	30	30	38	38	38	48	(51)	58	-	58
35	B9	-Steel	19	19	24	24	-	31	-	31	38	38	38	48	48	48	58	58	(70)	68	-	-

Table E

AS 2129

Table E

Class	Table		Nominal Size 50	65	80	100	125	150	175	200	225	250	300	350	375	400	450	500	525	600	700	750
		Outside Diameter	150	165	185	215	255	280	-	335	370	405	455	525	550	580	640	705	735	825	910	995
		Pitch Circle Diameter	114	127	146	178	210	235	-	292	324	356	406	470	495	521	584	641	673	756	845	927
		No. of Holes	4	4	4	8	8	8	-	8	12	12	12	12	12	12	16	16	16	16	20	20
		Diameter of Holes	18	18	18	18	18	22	-	22	22	22	26	26	26	26	26	26	30	33	33	36
		Bolt Diameter	16	16	16	16	16	20	-	20	20	20	24	24	24	24	24	24	27	30	30	33
14	E	-Cast Iron	19	19	19	22	22	22	-	25	25	25	29	32	32	32	35	38	38	41	44	48

ISO

ISO 7005 PN16

Drilling compatible with:
BS 4504 PN16
DIN 2533 PN16

Class	Table		Nominal Size 50	65	80	100	125	150	175	200	225	250	300	350	375	400	450	500	525	600	700	750
		Outside Diameter	165	185	200	220	250	285	-	340	-	405	460	520	-	580	640	715	-	840	910	-
		Pitch Circle Diameter	125	145	160	180	210	240	-	295	-	355	410	470	-	525	585	650	-	770	840	-
		No. of Holes	4	4	8	8	8	8	-	12	-	12	12	16	-	16	20	20	-	20	24	-
		Diameter of Holes	18	18	18	18	18	22	-	22	-	27	27	27	-	30	30	33	-	36	36	-
		Bolt Diameter	16	16	16	16	16	20	-	20	-	24	24	24	-	27	27	30	-	33	33	-
16	11	-Ductile Iron	19	19	19	19	19	19	-	20	-	22	25	27	-	28	30	32	-	36	40	-
16	11	-Cast Iron	20	20	22	24	26	26	-	30	-	32	32	36	-	38	40	42	-	48	54	-

ANSI

ANSI B16.1 125 lb

Drilling compatible with:
ANSI B16.1 150 lb

Class		Nominal Size 50	65	80	100	125	150	175	200	225	250	300	350	375	400	450	500	525	600	700	750
	Outside Diameter	152	178	191	229	255	280	-	343	-	405	483	533	-	597	635	699	-	813	-	984
	Pitch Circle Diameter	121	140	152	191	216	241	-	298	-	362	432	476	-	540	578	635	-	749	-	914
	No. of Holes	4	4	4	8	8	8	-	8	-	12	12	12	-	16	16	20	-	20	-	28
	Diameter of Holes	19	19	19	19	22	22	-	22	-	25	25	29	-	29	32	32	-	35	-	35
	Bolt Diameter	16	16	16	16	20	20	-	20	-	22	22	25	-	25	29	29	-	32	-	32
17	-Cast Iron	16	18	20	24	24	25	-	29	-	26	32	35	-	37	40	48	-	48	-	54

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The information contained in this chart has been compiled as a simple guideline for suitably qualified users. The content may contain inaccuracies or typographical errors and reference to the relevant Standard is advised for confirmation.

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