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DIMENSIONAL STANDARD · IS 9523

IS 9523 Flange Dimensions — Plate & Blind, PN 10 to PN 40

IS 9523 flange dimensions, PN 10, 16, 25 and 40: OD, PCD, holes, raised face, bore and plate/blind thickness in mm.

This chart gives **IS 9523** flange dimensions in millimetres for PN 10, PN 16, PN 25 and PN 40 — outside diameter, bolt circle, number and size of holes, raised face, bore and plate and blind thickness for raised-face and flat-face flanges. IS 9523 flanges are used on ductile iron fittings and water and sewage pipelines in India.

Plate flanges are Teshi Group's core product: cut, machined and drilled in our own works in India from DN 10 up to 8000 NB (8 metres), in carbon, boiler-quality, stainless, duplex and nickel-alloy plate, with EN 10204 3.1 certificates.

- **D** Outside diameter of flange
- **B** Bore (inside diameter) of plate flange
- **C** Flange thickness — plate or blind, raised face (RF) or flat face (FF)
- **K** Bolt circle (pitch circle) diameter
- **n** Number of bolt holes
- **L** Bolt hole diameter
- **d1** Raised face diameter
- **f** Raised face height

IS 9523 PN 10 — plate and blind flange (mm)

Size NB	D Flange OD · mm	K Bolt circle · mm	n Bolts	L Hole dia · mm	d1 Raised face · mm	f RF height · mm	B Bore · mm	C Plate, RF · mm	C Plate, FF · mm	C Blind, RF · mm	C Blind, FF · mm
80	200	160	4	19	132	3	91.9	19	16	19	16
100	220	180	8	19	156	3	117.3	19	16	19	16
125	250	210	8	19	184	3	142.7	19	16	19	16
150	285	240	8	23	211	3	171.3	19	16	19	16
200	340	295	8	23	266	3	222.1	20	17	20	17
250	395	350	12	23	319	3	276	22	19	22	19
300	445	400	12	23	370	4	326.9	24.5	20.5	24.5	20.5
350	505	460	16	23	429	4	358.6	24.5	20.5	24.5	20.5
400	565	515	16	28	480	4	409.4	24.5	20.5	24.5	20.5
450	615	565	20	28	530	4	460.2	25	21	25	21
500	670	620	20	28	582	4	511	26.5	22.5	26.5	22.5
600	780	725	20	31	682	5	612.6	30	25	30	25
700	895	840	24	31	794	5	714.2	32.5	27.5	32.5	27.5
750	960	900	24	31	857	5	765	34	29	34	29
800	1015	950	24	34	901	5	815.8	35	30	35	30
900	1115	1050	28	34	1001	5	917.4	37.5	32.5	37.5	32.5
1000	1230	1160	28	37	1112	5	1019	40	35	40	35
1100	1340	1270	32	37	1231	5	1120.6	43	38	43	38

Size NB	D Flange OD · mm	K Bolt circle · mm	n Bolts	L Hole dia · mm	d1 Raised face · mm	f RF height · mm	B Bore · mm	C Plate, RF · mm	C Plate, FF · mm	C Blind, RF · mm	C Blind, FF · mm
1200	1455	1380	32	40	1328	5	1223	45	40	45	40
1400	1675	1590	36	43	1530	5	1423	46	41	46	41
1600	1915	1820	40	49	1750	5	1623	49	44	49	44
1800	2115	2020	44	49	1950	5	1823	52	47	52	47
2000	2325	2230	48	49	2150	5	2023	55	50	55	50

IS 9523 PN 16 — plate and blind flange (mm)

Size NB	D Flange OD · mm	K Bolt circle · mm	n Bolts	L Hole dia · mm	d1 Raised face · mm	f RF height · mm	B Bore · mm	C Plate, RF · mm	C Plate, FF · mm	C Blind, RF · mm	C Blind, FF · mm
80	200	160	8	19	132	3	91.9	19	16	19	16
100	220	180	8	19	156	3	117.3	19	16	19	16
125	250	210	8	19	184	3	142.7	19	16	19	16
150	285	240	8	23	211	3	171.3	19	16	19	16
200	340	295	12	23	266	3	222.1	20	17	20	17
250	400	355	12	28	319	3	276	22	19	22	19
300	455	410	12	28	370	4	326.9	24.5	20.5	24.5	20.5
350	520	470	16	28	429	4	358.6	26.5	22.5	26.5	22.5
400	580	525	16	31	480	4	409.4	28	24	28	24
450	640	585	20	31	548	4	460.2	30	26	30	26
500	715	650	20	34	609	4	511	31.5	27.5	31.5	27.5
600	840	770	20	37	720	5	612.6	36	31	36	31
700	910	840	24	37	794	5	714.2	39.5	34.5	39.5	34.5
750	970	900	24	37	857	5	765	41	36	41	36
800	1025	950	24	40	901	5	815.8	43	38	43	38
900	1125	1050	28	40	1001	5	917.4	46	41	46	41
1000	1255	1170	28	43	1112	5	1019	50	45	50	45
1100	1355	1270	32	43	1218	5	1120.6	53.5	48.5	53.5	48.5
1200	1485	1390	32	49	1328	5	1223	57	52	57	52
1400	1685	1590	36	49	1530	5	1423	60	55	60	55
1600	1930	1820	40	56	1750	5	1623	65	60	65	60
1800	2130	2020	44	56	1950	5	1823	70	65	70	65
2000	2345	2230	48	62	2150	5	2023	75	70	75	70

IS 9523 PN 25 — plate and blind flange (mm)

Size NB	D Flange OD · mm	K Bolt circle · mm	n Bolts	L Hole dia · mm	d1 Raised face · mm	f RF height · mm	B Bore · mm	C Plate, RF · mm	C Plate, FF · mm	C Blind, RF · mm	C Blind, FF · mm
80	200	160	8	19	132	3	91.9	19	16	19	16
100	235	190	8	23	156	3	117.3	19	16	19	16
125	270	220	8	28	184	3	142.7	19	16	19	16
150	300	250	8	28	211	3	171.3	20	17	20	17
200	360	310	12	28	274	3	222.1	22	19	22	19
250	425	370	12	31	330	3	276	24.5	21.5	24.5	21.5
300	485	430	16	31	389	4	326.9	27.5	23.5	27.5	23.5
350	555	490	16	34	448	4	358.6	30	26	30	26
400	620	550	16	37	503	4	409.4	32	28	32	28
450	670	600	20	37	548	4	460.2	34.5	30.5	34.5	30.5
500	730	660	20	37	609	4	511	36.5	32.5	36.5	32.5
600	845	770	20	40	720	5	612.6	42	37	42	37
700	960	875	24	43	820	5	714.2	46.5	41.5	46.5	41.5
750	1020	940	24	43	883	5	765	50	45	50	45
800	1085	990	24	49	928	5	815.8	51	46	51	46
900	1185	1090	28	49	1028	5	917.4	55.5	50.5	55.5	50.5
1000	1320	1210	28	56	1140	5	1019	60	55	60	55
1100	1420	1310	32	56	1240	5	1120.6	65.5	60.5	65.5	60.5
1200	1530	1420	32	56	1350	5	1223	69	64	69	64
1400	1755	1640	36	62	1560	5	1423	74	69	74	69
1600	1975	1860	40	62	1780	5	1623	81	76	81	76
1800	2195	2070	44	70	1980	5	1823	88	83	88	83
2000	2425	2300	48	70	2210	5	2023	95	90	95	90

IS 9523 PN 40 — plate and blind flange (mm)

Size NB	D Flange OD · mm	K Bolt circle · mm	n Bolts	L Hole dia · mm	d1 Raised face · mm	f RF height · mm	B Bore · mm	C Plate, RF · mm	C Plate, FF · mm	C Blind, RF · mm	C Blind, FF · mm
80	200	160	8	19	132	3	91.9	19	16	19	16
100	235	190	8	23	166	3	117.3	19	16	19	16
125	270	220	8	28	184	3	142.7	23.5	20.5	23.5	20.5
150	300	250	8	28	211	3	171.3	26	23	26	23
200	375	320	12	31	284	3	222.1	30	27	30	27
250	450	385	12	34	345	3	276	34.5	31.5	34.5	31.5
300	515	450	16	34	409	4	326.9	39.5	35.5	39.5	35.5
350	580	510	16	37	465	4	358.6	44	40	44	40
400	660	585	16	40	535	4	409.4	48	44	48	44

Size NB	D Flange OD · mm	K Bolt circle · mm	n Bolts	L Hole dia · mm	d1 Raised face · mm	f RF height · mm	B Bore · mm	C Plate, RF · mm	C Plate, FF · mm	C Blind, RF · mm	C Blind, FF · mm
450	685	610	20	40	560	4	460.2	50	46	50	46
500	755	670	20	43	615	4	511	52	48	52	48
600	890	795	20	49	735	5	612.6	58	53	58	53

Notes

- All dimensions are in millimetres; sizes are nominal bore (NB / DN).
- Plate flange thickness is given for raised-face (RF) and flat-face (FF) flanges; where only RF is shown, the FF thickness is the same.
- Reference values for estimation and checking. Verify against the current edition of the standard and the purchase specification before design, purchase or fabrication.

Reference information compiled from the published standard for convenience. It does not replace the current edition of the governing standard, which takes precedence. Verify critical dimensions before design, purchase or fabrication. Teshi Engineers & Sales Promoters (P) Ltd accepts no liability for errors or omissions. Online version: https://teshigroup.com/dimensional-standards/is-9523-flange-dimensions/