TUBING, FLANGES & PIPE FITTINGS

SANS 1123 flanges

Specify the flange standard, size, drilling, facing and material for the mating installation.

Application: Application-led selection for the specified operating conditions.

SANS1123 flange dimensions / column group 1 of 2

Nominal bore (mm)	Class / table designation	Flange outside diameter D (mm)	Flange thickness b (mm)	Raised-face diameter d2 (mm)	Raised-face height f (mm)	Bolt holes	Hole diameter d1 (mm)
15	600/3	80	10	40	2	4	11
15	1000/3	95	10	45	2	4	14
15	1600/3	95	10	45	2	4	14
15	2500/3	95	14	45	2	4	14
15	4000/3	95	14	45	2	4	14
20	600/3	90	10	50	2	4	11
20	1000/3	105	10	58	2	4	14
20	1600/3	105	10	58	2	4	14
20	2500/3	105	14	58	2	4	14
20	4000/3	105	14	58	2	4	14
25	600/3	100	10	60	2	4	11
25	1000/3	115	10	68	2	4	14
25	1600/3	115	10	68	2	4	14
25	2500/3	115	16	68	2	4	14
25	4000/3	115	16	68	2	4	14
32	600/3	120	10	70	2	4	14

SANS1123 flange dimensions / column group 1 of 2

Nominal bore (mm)	Class / table designation	Flange outside diameter D (mm)	Flange thickness b (mm)	Raised-face diameter d2 (mm)	Raised-face height f (mm)	Bolt holes	Hole diameter d1 (mm)
32	1000/3	140	10	78	2	4	18
32	1600/3	140	10	78	2	4	18
32	2500/3	140	18	78	2	4	18
32	4000/3	140	18	78	2	4	18
40	600/3	130	10	80	3	4	14
40	1000/3	150	10	88	3	4	18
40	1600/3	150	10	88	3	4	18
40	2500/3	150	20	88	3	4	18
40	4000/3	150	20	88	3	4	18
50	600/3	140	10	90	3	4	14
50	1000/3	165	10	102	3	4	18
50	1600/3	165	12	102	3	4	18
50	2500/3	165	20	102	3	4	18
50	4000/3	165	20	102	3	4	18
65	600/3	160	10	110	3	4	14
65	1000/3	185	12	122	3	4	18
65	1600/3	185	12	122	3	4	18
65	2500/3	185	22	122	3	8	18
65	4000/3	185	22	122	3	8	18
80	600/3	190	10	128	3	4	18
80	1000/3	200	12	138	3	8	18

SANS1123 flange dimensions / column group 1 of 2

Nominal bore (mm)	Class / table designation	Flange outside diameter D (mm)	Flange thickness b (mm)	Raised-face diameter d2 (mm)	Raised-face height f (mm)	Bolt holes	Hole diameter d1 (mm)
80	1600/3	200	14	138	3	8	18
80	2500/3	200	22	138	3	8	18
80	4000/3	200	22	138	3	8	18
100	600/3	210	10	148	3	4	18
100	1000/3	220	12	158	3	8	18
100	1600/3	220	14	158	3	8	18
100	2500/3	235	25	162	3	8	22
100	4000/3	235	25	162	3	8	22
125	600/3	240	12	178	3	8	18
125	1000/3	250	14	188	3	8	18
125	1600/3	250	16	188	3	8	18
125	2500/3	270	28	188	3	8	26
125	4000/3	270	28	188	3	8	26
150	600/3	265	12	202	3	8	18
150	1000/3	285	16	212	3	8	22
150	1600/3	285	18	212	3	8	22
150	2500/3	300	30	218	3	8	26
150	4000/3	300	30	218	3	8	26
200	600/3	320	14	258	3	8	18
200	1000/3	340	18	268	3	8	22
200	1600/3	340	22	268	3	12	22

SANS1123 flange dimensions / column group 1 of 2

Nominal bore (mm)	Class / table designation	Flange outside diameter D (mm)	Flange thickness b (mm)	Raised-face diameter d2 (mm)	Raised-face height f (mm)	Bolt holes	Hole diameter d1 (mm)
200	2500/3	360	28	278	3	12	26
200	4000/3	375	32	285	3	12	26
250	600/3	375	16	312	3	12	18
250	1000/3	395	20	320	3	12	22
250	1600/3	405	25	320	3	12	26
250	2500/3	425	30	335	3	12	26
250	4000/3	450	38	345	3	12	33
300	600/3	440	20	365	4	12	22
300	1000/3	445	22	370	4	12	22
300	1600/3	460	28	378	4	12	26
300	2500/3	485	32	395	4	16	26
300	4000/3	515	40	410	4	16	33
350	600/3	490	22	415	4	12	22
350	1000/3	505	25	430	4	16	22
350	1600/3	520	30	438	4	16	26
350	2500/3	555	35	450	4	16	33
350	4000/3	580	45	465	4	16	33
400	600/3	540	22	465	4	16	22
400	1000/3	565	25	482	4	16	26
400	1600/3	580	35	490	4	16	26
400	2500/3	620	40	505	4	16	33

SANS1123 flange dimensions / column group 1 of 2

Nominal bore (mm)	Class / table designation	Flange outside diameter D (mm)	Flange thickness b (mm)	Raised-face diameter d2 (mm)	Raised-face height f (mm)	Bolt holes	Hole diameter d1 (mm)
400	4000/3	660	50	535	4	16	39
450	600/3	595	25	520	4	16	22
450	1000/3	615	30	532	4	20	26
450	1600/3	640	40	550	4	20	26
450	2500/3	670	45	555	4	20	33
450	4000/3	685	60	560	4	20	39
500	600/3	645	25	570	4	20	22
500	1000/3	670	32	585	4	20	26
500	1600/3	715	40	610	4	20	33
500	2500/3	730	50	615	4	20	33
500	4000/3	755	70	615	4	20	39
600	600/3	755	30	670	5	20	26
600	1000/3	780	38	685	5	20	26
600	1600/3	840	50	725	5	20	33
600	2500/3	845	60	720	5	20	39
600	4000/3	890	84	735	5	20	48
700	600/3	860	35	775	5	24	26
700	1000/3	895	45	800	5	24	26
700	1600/3	910	55	795	5	24	33
700	2500/3	960	74	820	5	24	42
700	4000/3	995	96	840	5	24	48

SANS1123 flange dimensions / column group 1 of 2

Nominal bore (mm)	Class / table designation	Flange outside diameter D (mm)	Flange thickness b (mm)	Raised-face diameter d2 (mm)	Raised-face height f (mm)	Bolt holes	Hole diameter d1 (mm)
800	600/3	975	38	880	5	24	26
800	1000/3	1015	50	905	5	24	33
800	1600/3	1025	65	900	5	24	39
800	2500/3	1085	82	928	5	24	48
800	4000/3	1140	108	960	5	24	56
900	600/3	1075	40	980	5	24	26
1000	600/3	1175	45	1080	5	28	26
1000	1000/3	1230	60	1110	5	28	33
1000	1600/3	1255	75	1115	5	28	39
1000	2500/3	1320	98	1140	5	28	56
1000	4000/3	1360	132	1180	5	28	56
1200	600/3	1405	55	1295	5	32	33
1200	1000/3	1455	70	1328	5	32	39
1200	1600/3	1485	85	1238	5	32	45
1200	2500/3	1530	116	1350	5	32	56
1200	4000/3	1575	154	1380	5	32	62

Identifying columns are repeated. Read all column groups together for the complete row specification.

SANS1123 flange dimensions / column group 2 of 2

Nominal bore (mm)	Class / table designation	Bolt size	Bolt circle PCD (mm)	Reference mass (kg)	Standard reference
15	600/3	M10	55	0.33	SANS1123
15	1000/3	M12	65	0.48	SANS1123

SANS1123 flange dimensions / column group 2 of 2

Nominal bore (mm)	Class / table designation	Bolt size	Bolt circle PCD (mm)	Reference mass (kg)	Standard reference
15	1600/3	M12	65	0.48	SANS1123
15	2500/3	M12	65	0.76	SANS1123
15	4000/3	M12	65	0.76	SANS1123
20	600/3	M10	65	0.42	SANS1123
20	1000/3	M12	75	0.58	SANS1123
20	1600/3	M12	75	0.58	SANS1123
20	2500/3	M12	75	1.04	SANS1123
20	4000/3	M12	75	1.04	SANS1123
25	600/3	M10	75	0.49	SANS1123
25	1000/3	M12	85	0.69	SANS1123
25	1600/3	M12	85	0.69	SANS1123
25	2500/3	M12	85	1.24	SANS1123
25	4000/3	M12	85	1.24	SANS1123
32	600/3	M10	90	0.71	SANS1123
32	1000/3	M12	100	1.01	SANS1123
32	1600/3	M12	100	1.01	SANS1123
32	2500/3	M12	100	1.8	SANS1123
32	4000/3	M12	100	1.8	SANS1123
40	600/3	M12	100	0.84	SANS1123
40	1000/3	M16	110	1.15	SANS1123
40	1600/3	M16	110	1.15	SANS1123

SANS1123 flange dimensions / column group 2 of 2

Nominal bore (mm)	Class / table designation	Bolt size	Bolt circle PCD (mm)	Reference mass (kg)	Standard reference
40	2500/3	M16	110	2.3	SANS1123
40	4000/3	M16	110	2.3	SANS1123
50	600/3	M12	110	0.92	SANS1123
50	1000/3	M16	125	1.36	SANS1123
50	1600/3	M16	125	1.63	SANS1123
50	2500/3	M16	125	2.72	SANS1123
50	4000/3	M16	125	2.72	SANS1123
65	600/3	M12	130	1.15	SANS1123
65	1000/3	M16	145	1.98	SANS1123
65	1600/3	M16	145	1.98	SANS1123
65	2500/3	M16	145	3.64	SANS1123
65	4000/3	M16	145	3.64	SANS1123
80	600/3	M16	150	1.64	SANS1123
80	1000/3	M16	160	2.17	SANS1123
80	1600/3	M16	160	2.64	SANS1123
80	2500/3	M16	160	3.95	SANS1123
80	4000/3	M16	160	3.95	SANS1123
100	600/3	M16	170	1.81	SANS1123
100	1000/3	M16	180	2.39	SANS1123
100	1600/3	M16	180	2.9	SANS1123
100	2500/3	M20	190	6.04	SANS1123

SANS1123 flange dimensions / column group 2 of 2

Nominal bore (mm)	Class / table designation	Bolt size	Bolt circle PCD (mm)	Reference mass (kg)	Standard reference
100	4000/3	M20	190	6.04	SANS1123
125	600/3	M16	200	2.6	SANS1123
125	1000/3	M16	210	3.45	SANS1123
125	1600/3	M16	210	4.07	SANS1123
125	2500/3	M24	220	8.21	SANS1123
125	4000/3	M24	220	8.21	SANS1123
150	600/3	M16	225	2.91	SANS1123
150	1000/3	M20	240	4.81	SANS1123
150	1600/3	M20	240	5.41	SANS1123
150	2500/3	M24	250	10.42	SANS1123
150	4000/3	M24	250	10.42	SANS1123
200	600/3	M16	280	4.4	SANS1123
200	1000/3	M20	295	6.97	SANS1123
200	1600/3	M20	295	7.51	SANS1123
200	2500/3	M24	310	12.59	SANS1123
200	4000/3	M24	320	16.96	SANS1123
250	600/3	M16	335	6.02	SANS1123
250	1000/3	M20	350	9.14	SANS1123
250	1600/3	M24	355	12.36	SANS1123
250	2500/3	M24	370	17.9	SANS1123
250	4000/3	M30	385	29.44	SANS1123

SANS1123 flange dimensions / column group 2 of 2

Nominal bore (mm)	Class / table designation	Bolt size	Bolt circle PCD (mm)	Reference mass (kg)	Standard reference
300	600/3	M20	395	9.96	SANS1123
300	1000/3	M20	400	11.65	SANS1123
300	1600/3	M24	410	16.65	SANS1123
300	2500/3	M24	430	23.16	SANS1123
300	4000/3	M30	450	43.39	SANS1123
350	600/3	M20	445	14.29	SANS1123
350	1000/3	M20	460	18.23	SANS1123
350	1600/3	M24	470	24.15	SANS1123
350	2500/3	M30	490	34.87	SANS1123
350	4000/3	M30	510	56.5	SANS1123
400	600/3	M20	495	15.69	SANS1123
400	1000/3	M24	515	21.88	SANS1123
400	1600/3	M24	525	34.13	SANS1123
400	2500/3	M30	550	49	SANS1123
400	4000/3	M36	585	74.58	SANS1123
450	600/3	M20	550	21.07	SANS1123
450	1000/3	M24	565	28.29	SANS1123
450	1600/3	M24	585	45.68	SANS1123
450	2500/3	M30	600	60	SANS1123
450	4000/3	M36	610	85	SANS1123
500	600/3	M20	600	22.52	SANS1123

SANS1123 flange dimensions / column group 2 of 2

Nominal bore (mm)	Class / table designation	Bolt size	Bolt circle PCD (mm)	Reference mass (kg)	Standard reference
500	1000/3	M24	620	34.65	SANS1123
500	1600/3	M30	650	56.51	SANS1123
500	2500/3	M30	660	77.31	SANS1123
500	4000/3	M36	670	121.5	SANS1123
600	600/3	M24	705	33.63	SANS1123
600	1000/3	M24	725	51.58	SANS1123
600	1600/3	M30	770	95.26	SANS1123
600	2500/3	M36	770	114.86	SANS1123
600	4000/3	M45	795	192.21	SANS1123
700	600/3	M24	810	46.05	SANS1123
700	1000/3	M24	840	76.23	SANS1123
700	1600/3	M30	840	98.5	SANS1123
700	2500/3	M39	875	164.4	SANS1123
700	4000/3	M45	900	253.87	SANS1123
800	600/3	M24	920	63.24	SANS1123
800	1000/3	M30	950	104.68	SANS1123
800	1600/3	M36	950	140.1	SANS1123
800	2500/3	M45	990	224.07	SANS1123
800	4000/3	M52	1030	375.34	SANS1123
900	600/3	M24	1020	74	SANS1123
1000	600/3	M24	1020	89.63	SANS1123

SANS1123 flange dimensions / column group 2 of 2

Nominal bore (mm)	Class / table designation	Bolt size	Bolt circle PCD (mm)	Reference mass (kg)	Standard reference
1000	1000/3	M30	1160	164.87	SANS1123
1000	1600/3	M36	1170	228.26	SANS1123
1000	2500/3	M52	1210	357.89	SANS1123
1000	4000/3	M52	1250	569.3	SANS1123
1200	600/3	M30	1340	150.24	SANS1123
1200	1000/3	M36	1380	246.91	SANS1123
1200	1600/3	M42	1390	337.56	SANS1123
1200	2500/3	M52	1420	357.89	SANS1123
1200	4000/3	M56	1450	813.69	SANS1123

Identifying columns are repeated. Read all column groups together for the complete row specification.

Flange drilling and dimensional references for the selected standard, nominal bore and class. Specify the flange construction, face, material grade and design temperature. A PN, class or table designation alone does not establish an allowable working pressure for every material and temperature. Blank dimensions are not confirmed available configurations.

Application & quotation checklist

Standard, nominal size and pressure class; Material grade and wall thickness; Facing, drilling and connection type; Drawing or dimensions of the mating connection

Request a quotation

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Provide the part code, size, quantity, required configuration and application. Include a drawing or photograph where available.

Ratings apply only to the specified product and configuration. Confirm fluid compatibility, temperature, pressure transients, installation and complete assembly suitability. Ordering references do not establish interchangeability.