

NPS to DN and Outside Diameter (OD) Master Chart

NPS (in)	DN	OD (in)	OD (mm)	OD rule
⅛	6	0.405	10.3	OD fixed, larger than NPS
¼	8	0.540	13.7	OD fixed, larger than NPS
⅜	10	0.675	17.1	OD fixed, larger than NPS
½	15	0.840	21.3	OD fixed, larger than NPS
¾	20	1.050	26.7	OD fixed, larger than NPS
1	25	1.315	33.4	OD fixed, larger than NPS
1¼	32	1.660	42.2	OD fixed, larger than NPS
1½	40	1.900	48.3	OD fixed, larger than NPS
2	50	2.375	60.3	OD fixed, larger than NPS
2½	65	2.875	73.0	OD fixed, larger than NPS
3	80	3.500	88.9	OD fixed, larger than NPS
3½	90	4.000	101.6	OD fixed, larger than NPS
4	100	4.500	114.3	OD fixed, larger than NPS
5	125	5.563	141.3	OD fixed, larger than NPS
6	150	6.625	168.3	OD fixed, larger than NPS
8	200	8.625	219.1	OD fixed, larger than NPS
10	250	10.750	273.0	OD fixed, larger than NPS
12	300	12.750	323.8	OD fixed, larger than NPS
14	350	14.000	355.6	OD = NPS (inch)
16	400	16.000	406.4	OD = NPS (inch)
18	450	18.000	457.0	OD = NPS (inch)
20	500	20.000	508.0	OD = NPS (inch)
22	550	22.000	559.0	OD = NPS (inch)
24	600	24.000	610.0	OD = NPS (inch)
26	650	26.000	660.0	OD = NPS (inch)
28	700	28.000	711.0	OD = NPS (inch)
30	750	30.000	762.0	OD = NPS (inch)
32	800	32.000	813.0	OD = NPS (inch)
34	850	34.000	864.0	OD = NPS (inch)
36	900	36.000	914.0	OD = NPS (inch)
38	950	38.000	965.0	OD = NPS (inch)
40	1000	40.000	1016.0	OD = NPS (inch)
42	1050	42.000	1067.0	OD = NPS (inch)
44	1100	44.000	1118.0	OD = NPS (inch)
46	1150	46.000	1168.0	OD = NPS (inch)
48	1200	48.000	1219.0	OD = NPS (inch)

DN designations per ISO 6708 / ASME B36.10 Table 2-1. OD is constant for every schedule of a given NPS. Sizes NPS 52–80 (DN 1300–2000) are also covered by ASME B36.10 with OD = NPS. Source: Aienginear compilation per **ASME B36.10-2022** (welded & seamless wrought steel pipe) and **ASME B36.19M** (stainless steel pipe). – = no standard wall for that schedule. Verify against the edition named in your project specification.