項目 Item / 規格 Grade	外徑 Outside Diameter	厚度 Thickness	長度 Length
ASTM A249	＜ 25 mm +0.10 mm -0.11 mm ≧ 25 mm ≦ 40 mm ±0.15 mm ＞ 40 mm ＜ 50 mm ±0.20 mm ≧ 50 mm ＜ 65 mm ±0.25 mm ≧ 65 mm ＜ 75 mm ±0.30 mm ≧ 75 mm ≦100 mm ±0.38 mm ＞100 mm ≦200 mm +0.38 mm -0.64 mm ＞200 mm ≦225 mm +0.38 mm -1.14 mm	±10%	OD＜50.8 mm + 3.0 mm - 0 mm OD≧50.8 mm + 5.0 mm - 0 mm
ASTM A269	＜ 38.1 mm ±0.13 mm ≧ 38.1 mm ＜ 88.9 mm ±0.25 mm ≧ 88.9 mm ＜139.8 mm ±0.38 mm ≧139.8 mm ＜203.2 mm ±0.76 mm	OD＜12.7 mm ±15% OD≧12.7 mm ±10%	OD＜38.1 mm +3.2 mm -0 mm OD≧38.1 mm +4.8 mm -0 mm
ASTM A270	≦ 38.1 mm +0.05 mm -0.20 mm ＞ 38.1 mm ≦ 63.5 mm +0.05 mm -0.28 mm ＞ 63.5 mm ≦ 76.2 mm +0.08 mm -0.30 mm ＞ 76.2 mm ≦101.6 mm +0.08 mm -0.38 mm ≧101.6 mm ＜139.7 mm ±0.38 mm ≧139.7 mm ＜203.2 mm +0.76 mm	±12.5%	OD≦101.6 mm +3.2 mm -0 mm OD＞101.6 mm +4.8 mm -0 mm
CNS 6668 JIS G3447	≦ 25.4 mm ±0.15 mm ＞ 25.4 mm ≦ 31.8 mm ±0.16 mm ＞ 31.8 mm ≦ 38.1 mm ±0.19 mm ＞ 38.1 mm ≦ 76.3 mm ±0.25 mm ＞ 76.3 mm ≦ 89.1 mm +0.30 mm -0.40 mm ＞ 89.1 mm ≦101.6 mm +0.35 mm -0.40 mm ＞101.6 mm ≦114.3 mm +0.40 mm -0.60 mm ＞114.3 mm ≦139.8 mm +0.40 mm -0.80 mm ＞139.8 mm ≦165.2 mm +0.40 mm -1.20 mm	±10%	+ 10 mm - 0 mm
CNS 7383 JIS G3463	＜ 60 mm +0.25 mm ≧ 60 mm ＜ 80 mm +0.30 mm ≧ 80 mm ＜100 mm +0.40 mm ≧100 mm ＜120 mm +0.40 mm -0.60 mm ≧120 mm ＜160 mm +0.40 mm -0.80 mm ≧160 mm ＜200 mm +0.40 mm -1.20 mm ≧200 mm +0.40 mm -1.60 mm	OD＜40 mm t＜2 mm +0.4 mm -0 OD＜40 mm t≧2 mm +20% -0 OD≧40 mm +22% -0	OD＜50 mm + 7 mm - 0 mm OD≧50 mm + 10 mm - 0 mm