

Tolerances

Standard	Outside Diameter	Wall Thickness
EN 10216-4, hot finished	$\pm 1.0\%$ or $\pm 0.5\text{mm}$ (which is higher)	$\pm 12.5\%$ or $\pm 0.4\text{mm}$ (which is higher)
EN 10216-4, cold finished	$\pm 0.5\%$ or $\pm 0.3\text{mm}$ (which is higher)	$\pm 10\%$ or $\pm 0.2\text{ mm}$ (which is higher)
ASTM A333	$\text{OD} \leq 48.3; +0.4/-0.8\text{mm}$ $48.3 < \text{OD} \leq 114.3; \pm 0.8\text{mm}$ $114.3 < \text{OD} \leq 219.1; +1.6/-0.8\text{mm}$ $\text{OD} > 219.1; +2.4/-0.8\text{mm}$	$+12.5\%/-10\%$
ASTM A334 , hot finished	$\text{OD} \leq 100; +0.4/-0.8\text{mm}$ $100 < \text{OD} \leq 200; +0.4/-1.2\text{mm}$ $200 < \text{OD} \leq 225; +0.4/-1.6\text{mm}$	$\text{OD} \leq 100$ and $\text{WT} \leq 2.4; +40\%/0$ $\text{OD} \leq 100$ and $2.4 < \text{WT} \leq 3.8; +35\%/0$ $\text{OD} \leq 100$ and $3.8 < \text{WT} \leq 4.6; +33\%/0$ $\text{OD} \leq 100$ and $\text{WT} > 4.6; +28\%/0$ $\text{OD} > 100$ and $2.4 < \text{WT} \leq 3.8; +35\%/0$ $\text{OD} > 100$ and $3.8 < \text{WT} \leq 4.6; +33\%/0$ $\text{OD} > 100$ and $\text{WT} > 4.6; +28\%/0$
ASTM A334 , cold finished	$\text{OD} < 25; +0.1/-0.1\text{mm}$ $25 \leq \text{OD} \leq 40; +0.15/-0.15\text{mm}$ $40 < \text{OD} < 50; +0.2/-0.2\text{mm}$ $50 \leq \text{OD} < 65; +0.25/-0.25\text{mm}$ $65 \leq \text{OD} < 75; +0.3/-0.3\text{mm}$ $75 \leq \text{OD} \leq 100; +0.38/-0.38\text{mm}$ $100 < \text{OD} \leq 200; +0.38/-0.64\text{mm}$ $200 < \text{OD} \leq 225; +0.38/-1.14\text{mm}$	$\text{OD} \leq 38.1; +20\%/0$ $\text{OD} > 38.1; +22\%/0$