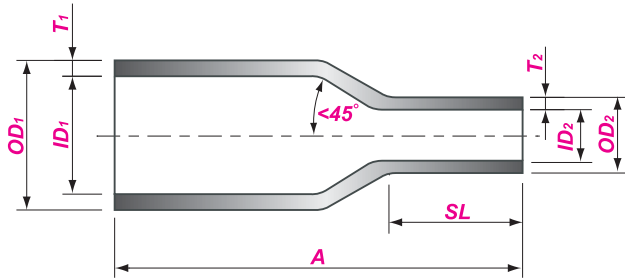
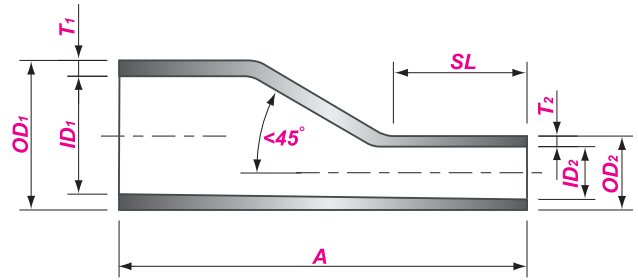


SWAGED NIPPLES



同心异径短节
Concentric Swaged Nipple



偏心异径短节
Eccentric Swaged Nipple

MSS SP-95, SH/T 3419

| 公称尺寸 Nominal Size | | 端部外径 OD at End | 小端长度 Length of Small End | 端面至 端面 End to End | 公称尺寸 Nominal Size | | 端部外径 OD at End | 小端长度 Length of Small End | 端面至 端面 End to End | |
|----------------------|---------------|--------------------|--------------------------------|-------------------------|----------------------|---------------|--------------------|--------------------------------|-------------------------|----|
| DN | NPS | $OD_1 \times OD_2$ | SL_{min} | A | DN | NPS | $OD_1 \times OD_2$ | SL_{min} | A | |
| 8 × 6 | 1/4 × 1/8 | 13.7 × 10.3 | 20 | 57 | 65 × 6 | 2 1/2 × 1/8 | 73.0 × 10.3 | 22 | 178 | |
| 10 × 6 | 3/8 × 1/8 | 17.1 × 10.3 | 20 | 64 | | 65 × 8 | 2 1/2 × 1/4 | 73.0 × 13.7 | | 22 |
| 10 × 8 | 3/8 × 1/4 | 17.1 × 13.7 | 20 | 70 | | 65 × 10 | 2 1/2 × 3/8 | 73.0 × 17.1 | | 22 |
| 15 × 6 | 1/2 × 1/8 | 21.3 × 10.3 | 20 | 76 | | 65 × 15 | 2 1/2 × 1/2 | 73.0 × 21.3 | | 25 |
| 15 × 8 | 1/2 × 1/4 | 21.3 × 13.7 | 20 | 89 | | 65 × 20 | 2 1/2 × 3/4 | 73.0 × 26.7 | | 25 |
| 15 × 10 | 1/2 × 3/8 | 21.3 × 17.1 | 20 | 102 | | 65 × 25 | 2 1/2 × 1 | 73.0 × 33.4 | | 30 |
| 20 × 6 | 3/4 × 1/8 | 26.7 × 10.3 | 20 | 114 | | 65 × 32 | 2 1/2 × 1 1/4 | 73.0 × 42.2 | | 30 |
| 20 × 8 | 3/4 × 1/4 | 26.7 × 13.7 | 20 | 165 | | 65 × 40 | 2 1/2 × 1 1/2 | 73.0 × 48.3 | | 40 |
| 20 × 10 | 3/4 × 3/8 | 26.7 × 17.1 | 22 | 203 | | 65 × 50 | 2 1/2 × 2 | 73.0 × 60.3 | | 40 |
| 20 × 15 | 3/4 × 1/2 | 26.7 × 21.3 | 22 | 203 | | 80 × 6 | 3 × 1/8 | 88.9 × 10.3 | | 22 |
| 25 × 6 | 1 × 1/8 | 33.4 × 10.3 | 20 | 229 | 80 × 8 | 3 × 1/4 | 88.9 × 13.7 | 22 | | |
| 25 × 8 | 1 × 1/4 | 33.4 × 13.7 | 20 | 229 | 80 × 10 | 3 × 3/8 | 88.9 × 17.1 | 22 | | |
| 25 × 10 | 1 × 3/8 | 33.4 × 17.1 | 22 | 229 | 80 × 15 | 3 × 1/2 | 88.9 × 21.3 | 25 | | |
| 25 × 15 | 1 × 1/2 | 33.4 × 21.3 | 22 | 229 | 80 × 20 | 3 × 3/4 | 88.9 × 26.7 | 25 | | |
| 25 × 20 | 1 × 3/4 | 33.4 × 26.7 | 22 | 229 | 80 × 25 | 3 × 1 | 88.9 × 33.4 | 30 | | |
| 32 × 6 | 1 1/4 × 1/8 | 42.2 × 10.3 | 20 | 229 | 80 × 32 | 3 × 1 1/4 | 88.9 × 42.2 | 30 | | |
| 32 × 8 | 1 1/4 × 1/4 | 42.2 × 13.7 | 20 | 229 | 80 × 40 | 3 × 1 1/2 | 88.9 × 48.3 | 40 | | |
| 32 × 10 | 1 1/4 × 3/8 | 42.2 × 17.1 | 22 | 229 | 80 × 50 | 3 × 2 | 88.9 × 60.3 | 40 | | |
| 32 × 15 | 1 1/4 × 1/2 | 42.2 × 21.3 | 22 | 229 | 80 × 65 | 3 × 2 1/2 | 88.9 × 73.0 | 40 | | |
| 32 × 20 | 1 1/4 × 3/4 | 42.2 × 26.7 | 25 | 229 | 90 × 6 | 3 1/2 × 1/8 | 101.6 × 10.3 | 22 | | |
| 32 × 25 | 1 1/4 × 1 | 42.2 × 33.4 | 25 | 229 | 90 × 8 | 3 1/2 × 1/4 | 101.6 × 13.7 | 22 | | |
| 40 × 6 | 1 1/2 × 1/8 | 48.3 × 10.3 | 20 | 229 | 90 × 10 | 3 1/2 × 3/8 | 101.6 × 17.1 | 22 | | |
| 40 × 8 | 1 1/2 × 1/4 | 48.3 × 13.7 | 20 | 229 | 90 × 15 | 3 1/2 × 1/2 | 101.6 × 21.3 | 25 | | |
| 40 × 10 | 1 1/2 × 3/8 | 48.3 × 17.1 | 22 | 229 | 90 × 20 | 3 1/2 × 3/4 | 101.6 × 26.7 | 25 | | |
| 40 × 15 | 1 1/2 × 1/2 | 48.3 × 21.3 | 25 | 229 | 90 × 25 | 3 1/2 × 1 | 101.6 × 33.4 | 30 | | |
| 40 × 20 | 1 1/2 × 3/4 | 48.3 × 26.7 | 25 | 229 | 90 × 32 | 3 1/2 × 1 1/4 | 101.6 × 42.2 | 30 | | |
| 40 × 25 | 1 1/2 × 1 | 48.3 × 33.4 | 25 | 229 | 90 × 40 | 3 1/2 × 1 1/2 | 101.6 × 48.3 | 40 | | |
| 40 × 32 | 1 1/2 × 1 1/4 | 48.3 × 42.2 | 25 | 229 | 90 × 50 | 3 1/2 × 2 | 101.6 × 60.3 | 40 | | |
| 50 × 6 | 2 × 1/8 | 60.3 × 10.3 | 20 | 229 | 90 × 65 | 3 1/2 × 2 1/2 | 101.6 × 73.0 | 40 | | |
| 50 × 8 | 2 × 1/4 | 60.3 × 13.7 | 22 | 229 | 90 × 80 | 3 1/2 × 3 | 101.6 × 88.9 | 40 | | |
| 50 × 10 | 2 × 3/8 | 60.3 × 17.1 | 22 | 229 | 100 × 8 | 4 × 1/4 | 114.3 × 13.7 | 25 | | |
| 50 × 15 | 2 × 1/2 | 60.3 × 21.3 | 25 | 229 | 100 × 10 | 4 × 3/8 | 114.3 × 17.1 | 25 | | |
| 50 × 20 | 2 × 3/4 | 60.3 × 26.7 | 30 | 229 | 100 × 15 | 4 × 1/2 | 114.3 × 21.3 | 25 | | |
| 50 × 25 | 2 × 1 | 60.3 × 33.4 | 30 | 229 | 100 × 20 | 4 × 3/4 | 114.3 × 26.7 | 30 | | |
| 50 × 32 | 2 × 1 1/4 | 60.3 × 42.2 | 30 | 229 | 100 × 25 | 4 × 1 | 114.3 × 33.4 | 30 | | |
| 50 × 40 | 2 × 1 1/2 | 60.3 × 48.3 | 30 | 229 | 100 × 32 | 4 × 1 1/4 | 114.3 × 42.2 | 40 | | |

SWAGED NIPPLES

| 异径短节 SWAGED NIPPLES | | | | | | | | | |
|----------------------|---------|--------------------|--------------------------------|-------------------------|----------------------|---------------|--------------------|--------------------------------|-------------------------|
| 公称尺寸 Nominal Size | | 端部外径 OD at End | 小端长度 Length of Small End | 端面至 端面 End to End | 公称尺寸 Nominal Size | | 端部外径 OD at End | 小端长度 Length of Small End | 端面至 端面 End to End |
| DN | NPS | $OD_1 \times OD_2$ | SL_{min} | A | DN | NPS | $OD_1 \times OD_2$ | SL_{min} | A |
| 100 × 40 | 4 × 1½ | 114.3 × 48.3 | 40 | 229 | 200 × 25 | 8 × 1 | 219.1 × 33.4 | 40 | 330 |
| 100 × 50 | 4 × 2 | 114.3 × 60.3 | 45 | | 200 × 32 | 8 × 1¼ | 219.1 × 42.2 | 40 | |
| 100 × 65 | 4 × 2½ | 114.3 × 73.0 | 45 | | 200 × 40 | 8 × 1½ | 219.1 × 48.3 | 45 | |
| 100 × 80 | 4 × 3 | 114.3 × 88.9 | 45 | | 200 × 50 | 8 × 2 | 219.1 × 60.3 | 45 | |
| 100 × 90 | 4 × 3½ | 114.3 × 101.6 | 45 | | 200 × 65 | 8 × 2½ | 219.1 × 73.0 | 45 | |
| 125 × 8 | 5 × 1/4 | 141.3 × 13.7 | 25 | | 200 × 80 | 8 × 3 | 219.1 × 88.9 | 50 | |
| 125 × 10 | 5 × 3/8 | 141.3 × 17.1 | 25 | 200 × 90 | 8 × 3½ | 219.1 × 101.6 | 50 | 381 | |
| 125 × 15 | 5 × 1/2 | 141.3 × 21.3 | 25 | 200 × 100 | 8 × 4 | 219.1 × 114.3 | 50 | | |
| 125 × 20 | 5 × 3/4 | 141.3 × 26.7 | 30 | 200 × 125 | 8 × 5 | 219.1 × 141.3 | 60 | | |
| 125 × 25 | 5 × 1 | 141.3 × 33.4 | 30 | 200 × 150 | 8 × 6 | 219.1 × 168.3 | 60 | | |
| 125 × 32 | 5 × 1¼ | 141.3 × 42.2 | 40 | 250 × 50 | 10 × 2 | 273.0 × 60.3 | 45 | | |
| 125 × 40 | 5 × 1½ | 141.3 × 48.3 | 40 | 250 × 65 | 10 × 2½ | 273.0 × 73.0 | 45 | | |
| 125 × 50 | 5 × 2 | 141.3 × 60.3 | 45 | 250 × 80 | 10 × 3 | 273.0 × 88.9 | 50 | | |
| 125 × 65 | 5 × 2½ | 141.3 × 73.0 | 45 | 250 × 90 | 10 × 3½ | 273.0 × 101.6 | 50 | | |
| 125 × 80 | 5 × 3 | 141.3 × 88.9 | 45 | 250 × 100 | 10 × 4 | 273.0 × 114.3 | 60 | | |
| 125 × 90 | 5 × 3½ | 141.3 × 101.6 | 45 | 250 × 125 | 10 × 5 | 273.0 × 141.3 | 60 | | |
| 125 × 100 | 5 × 4 | 141.3 × 114.3 | 50 | 250 × 150 | 10 × 6 | 273.0 × 168.3 | 65 | | |
| 150 × 15 | 6 × 1/2 | 168.3 × 21.3 | 30 | 250 × 200 | 10 × 8 | 273.0 × 219.1 | 65 | | 406 |
| 150 × 20 | 6 × 3/4 | 168.3 × 26.7 | 30 | 300 × 50 | 12 × 2 | 323.8 × 60.3 | 50 | | |
| 150 × 25 | 6 × 1 | 168.3 × 33.4 | 40 | 300 × 65 | 12 × 2½ | 323.8 × 73.0 | 50 | | |
| 150 × 32 | 6 × 1¼ | 168.3 × 42.2 | 40 | 300 × 80 | 12 × 3 | 323.8 × 88.9 | 60 | | |
| 150 × 40 | 6 × 1½ | 168.3 × 48.3 | 45 | 300 × 90 | 12 × 3½ | 323.8 × 101.6 | 60 | | |
| 150 × 50 | 6 × 2 | 168.3 × 60.3 | 45 | 300 × 100 | 12 × 4 | 323.8 × 114.3 | 65 | | |
| 150 × 65 | 6 × 2½ | 168.3 × 73.0 | 45 | 300 × 125 | 12 × 5 | 323.8 × 141.3 | 65 | | |
| 150 × 80 | 6 × 3 | 168.3 × 88.9 | 45 | 300 × 150 | 12 × 6 | 323.8 × 168.3 | 65 | | |
| 150 × 90 | 6 × 3½ | 168.3 × 101.6 | 50 | 300 × 200 | 12 × 8 | 323.8 × 219.1 | 70 | | |
| 150 × 100 | 6 × 4 | 168.3 × 114.3 | 50 | 300 × 250 | 12 × 10 | 323.8 × 273.0 | 70 | | |
| 150 × 125 | 6 × 5 | 168.3 × 141.3 | 60 | | | | | | |

注释: 1) 当按 SH/T 3419 标准订货时, 其外径应使用 SH/T 3405 《石油化工企业钢管外径系列》中规定的外径。

Note: 1) If ordering per SH/T 3419, the outside diameter specified in SH/T 3405 《tube outside diameter in petrochemical industry》 shall be applied.

| 异径短节的公差 TOLERANCES OF SWAGED NIPPLES | | | | | | |
|---|---------|-------------------|--------------------|-------------------|---------------------|---|
| 公称尺寸 Nominal Size | | 端部外径 OD at End | | 端部内径 ID at End | 端面至端面 End to End | 壁厚 Wall |
| DN | NPS | OD | | ID | A | T |
| | | 平口端部 Plain End | 其它端部 Other Ends | | | |
| 6~10 | 1/8~3/8 | + 0.4 - 0.8 | ± 0.8 | ± 0.8 | ± 1.6 | 不小于公称 壁厚的 87.5% Not less than 87.5% Nominal Wall Thickness |
| 15~40 | 1/2~1½ | + 0.4 - 0.8 | + 1.6 - 0.8 | ± 0.8 | ± 1.6 | |
| 50~65 | 2~2½ | ± 0.8 | + 1.6 - 0.8 | ± 0.8 | ± 3.2 | |
| 80~100 | 3~4 | ± 0.8 | ± 1.6 | ± 1.6 | ± 3.2 | |
| 125~150 | 5~6 | + 2.4 - 1.6 | + 2.4 - 1.6 | ± 1.6 | ± 4.8 | |
| 200~300 | 8~12 | + 4.0 - 3.2 | + 4.0 - 3.2 | ± 3.2 | ± 6.4 | |