

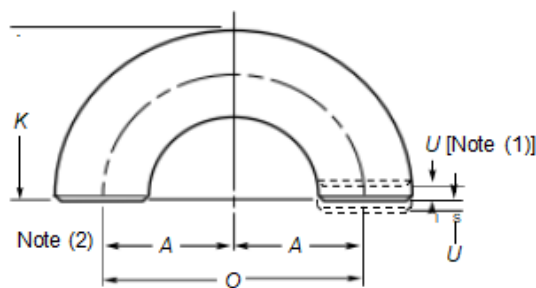


# **ASME B16.9**

## **DIMENSIONS OF LONG RADIUS RETURNS**

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**DIMENSIONS OF LONG RADIUS RETURNS**

| Nominal Pipe Size<br>(NPS) | DN  | Outside Diameter<br>at Bevel | Center- to-Center,<br>$D$ | Back- to-Face,<br>$K$ |
|----------------------------|-----|------------------------------|---------------------------|-----------------------|
| 1/2                        | 15  | 21.3                         | 76                        | 48                    |
| 3/4                        | 20  | 26.7                         | 76                        | 51                    |
| 1                          | 25  | 33.4                         | 76                        | 56                    |
| 1 1/4                      | 32  | 42.2                         | 95                        | 70                    |
| 1 1/2                      | 40  | 48.3                         | 114                       | 83                    |
| 2                          | 50  | 60.3                         | 152                       | 106                   |
| 2 1/2                      | 65  | 73.0                         | 190                       | 132                   |
| 3                          | 80  | 88.9                         | 229                       | 159                   |
| 3 1/2                      | 90  | 101.6                        | 267                       | 184                   |
| 4                          | 100 | 114.3                        | 305                       | 210                   |
| 5                          | 125 | 141.3                        | 381                       | 262                   |
| 6                          | 150 | 168.3                        | 457                       | 313                   |
| 8                          | 200 | 219.1                        | 610                       | 414                   |
| 10                         | 250 | 273.0                        | 762                       | 518                   |
| 12                         | 300 | 323.8                        | 914                       | 619                   |
| 14                         | 350 | 355.6                        | 1067                      | 711                   |
| 16                         | 400 | 406.4                        | 1219                      | 813                   |
| 18                         | 450 | 457                          | 1372                      | 914                   |
| 20                         | 500 | 508                          | 1524                      | 1016                  |
| 22                         | 550 | 559                          | 1676                      | 1118                  |
| 24                         | 600 | 610                          | 1829                      | 1219                  |

**GENERAL NOTE:**

All dimensions are in millimeters.

**NOTES:**

(1) Dimension  $A$  is equal to one-half of dimension  $O$ .

(2)  $O$  and  $K$  dimensions of 57 mm and 43 mm, respectively, may be furnished for NPS  $3/4$  (DN 20) at the manufacturer's option.