# Flange Weight Chart

**Mcneil Instrument** specializes in manufacturing a diverse range of **flanges** for demanding industrial and energy sector applications. With an extensive production capacity, we deliver **large-diameter flanges** in various sizes, shapes, and materials tailored to specific applications. Our products adhere to the highest quality standards, ensuring exceptional performance and durability.

Below is a detailed **Weight and Dimension Chart** for all types of flanges manufactured by Mcneil Instruments.

## Types of Flanges with Dimensions and Weights

| Type of Flange | Nominal Size (NPS) | Dimensions (DN mm) | Flange Thickness (mm) | Weight (Kg) |
|---|---|---|---|---|
| KOC Approved Flanges | 1/2" (15) | 15 | 11 | 1.2 |
| Saudi Aramco Approved Flanges | 3/4" (20) | 20 | 12 | 1.5 |
| Takreer Approved Flanges | 1" (25) | 25 | 13 | 2.1 |
| ADNOC Approved Flanges | 2" (50) | 50 | 15 | 3.8 |
| BP Approved Flanges | 4" (100) | 100 | 18 | 8.7 |
| PDO Approved Flanges | 6" (150) | 150 | 20 | 14.2 |
| Technip Approved Flanges | 8" (200) | 200 | 22 | 21.4 |
| Sabic Approved Flanges | 10" (250) | 250 | 25 | 32.1 |

| Petro Rabigh Approved Flanges | 12" (300) | 300 | 28 | 45.5 |
|---|---|---|---|---|
| KNPC Approved Flanges | 16" (400) | 400 | 32 | 68.3 |
| Lamprell Approved Flanges | 20" (500) | 500 | 36 | 91.7 |
| Qatar Gas Approved Flanges | 24" (600) | 600 | 40 | 120.5 |
| Qatar Petroleum Flanges | 28" (700) | 700 | 45 | 158.3 |
| Gpic Flanges Approved | 30" (750) | 750 | 50 | 180.2 |
| Saudi Electric Company Flanges | 36" (900) | 900 | 55 | 245.6 |
| Dolphin Approved Flanges | 40" (1000) | 1000 | 60 | 290.8 |

**Flange Weight Chart Calculator**

**Formula:**

Weight (Kg)=π×(R2−r2)×t×Density

**Where**:

**RRR** = Outer Radius, **rrr** = Inner Radius, **ttt** = Thickness

**Density** = Material density (e.g., Steel ~ 7.85 g/cm³)

**Example Calculation:**

For a flange with:

**Outer Diameter**: 200 mm, **Inner Diameter**: 150 mm, **Thickness**: 20 mm, **Material**: Steel

Weight (Kg)=3.1416×(1002−752)×20×0.00785
Weight (Kg)=3.1416×(10,000−5,625)×20×0.00785
Weight (Kg)=3.1416×4,375×20×0.00785
Weight (Kg)≈21.55Kg