



D-LINE® Forged steel fittings are manufactured in process allows to develop products with a consistent and unyielding quality. We maintain a strict quality control under the ASME B16.11, MSS SP-79, MSS SP-83, and MSS SP-97 requirements making our manufacturing process one of the best in the market.

All D-LINE® carbon forged steel fittings are zinc-phosphate coated for superior corrosion resistance.

APPLICATIONS

D-LINE® Forged fittings serve multi-national end users in a wide range of applications in many industries including:

- Water Treatment
- Mining
- Chemical & Petrochemical
- Ship Building Industries
- Public Services
- Pipe Engineering
- Fire Protection
- General Industries
- Food Industries

DESIGN FEATURES

- Carbon Steel: ASTM A-105
- Class 3000 & 6000
- Dimensions to per ASME B16.11
- Thread to per ASME B1.20.1
- NPT & SW ends available
- Sour gas service to per NACE MR-0175

FORGED STEEL ADVANTAGES

Forged steel offers a great advantage against casting or plating:

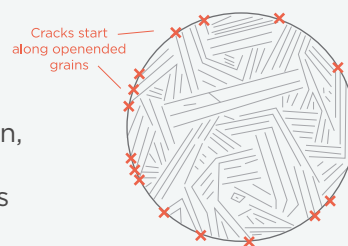
- Saving machining hours
- Better metallic yield
- Improving the grain structure
- Directional flow that enables the improvement of impact and mechanical resistance properties

ASTM forged carbon steel grade A-105 is a low carbon, manganese and silicon containing steel. Forged steel fittings are manufactured in a process where metals is molded by applying pressure.

D-LINE® offers the complete product line of forged steel fittings including:

- | | | |
|-------------|----------------|--------------------|
| • Elbows | • Unions | • Laterals |
| • Couplings | • Reducers | • Cross |
| • Tees | • Caps & Plugs | • Outlets and more |

CAST [Random Grains]

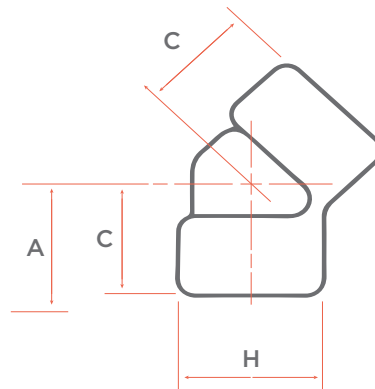


FORGED [Aligned Grains]



DIMENSIONS

THREADED NPT



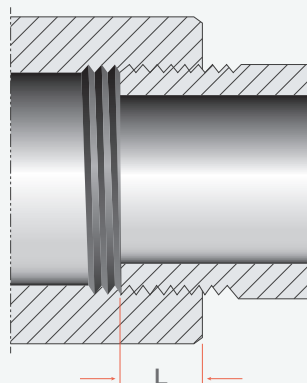
| CLASS 3000 DIMENSIONS AND WEIGHTS | | | | | | | | | | | | |
|-----------------------------------|------|------|------|------|------|------|--------|--------|------|--------|------|------|
| Size | 1/8" | 1/4" | 3/8" | 1/2" | 3/4" | 1" | 1-1/4" | 1-1/2" | 2" | 2-1/2" | 3" | 4" |
| A | 0.81 | 0.97 | 1.12 | 1.31 | 1.50 | 1.75 | 2.00 | 2.38 | 2.50 | 3.25 | 3.75 | 4.50 |
| C | 0.67 | 0.75 | 0.87 | 0.98 | 1.10 | 1.30 | 1.38 | 1.69 | 1.73 | 2.05 | 2.52 | 3.11 |
| H | 0.87 | 0.98 | 1.30 | 1.50 | 1.81 | 2.20 | 2.44 | 2.95 | 3.31 | 4.02 | 4.76 | 5.98 |
| WEIGHT (KG) | 0.10 | 0.10 | 0.13 | 0.24 | 0.34 | 0.51 | 0.77 | 1.03 | 1.59 | 2.79 | 4.80 | 14.5 |

Dimensions are expressed in inches
Weight is estimated

| CLASS 6000 DIMENSIONS AND WEIGHTS | | | | | | | | |
|-----------------------------------|------|------|------|--------|--------|------|--------|------|
| Size | 1/2" | 3/4" | 1" | 1-1/4" | 1-1/2" | 2" | 2-1/2" | 3" |
| A | 1.50 | 1.75 | 2.00 | 2.38 | 2.50 | 3.25 | 3.75 | 4.19 |
| C | 0.98 | 1.10 | 1.30 | 1.38 | 1.69 | 1.73 | 2.05 | 2.52 |
| H | 1.81 | 2.20 | 2.44 | 2.95 | 3.31 | 4.02 | 4.76 | 5.75 |
| WEIGHT (KG) | 0.46 | 0.73 | 1.13 | 1.50 | 2.29 | 3.47 | 6.21 | 9.52 |

Dimensions are expressed in inches
Weight is estimated

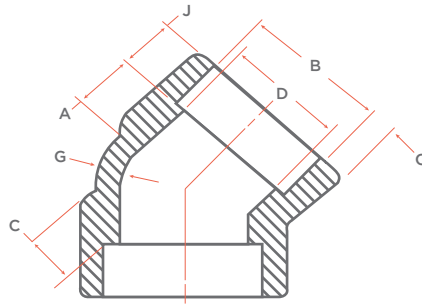
LENGTH OF THREAD SCREWED INTO FITTING



| SIZE | L | SIZE | L |
|--------|-------|--------|-------|
| 1/8" | 0.273 | 2" | 0.697 |
| 1/4" | 0.395 | 2-1/2" | 0.933 |
| 3/8" | 0.407 | 3" | 1.016 |
| 1/2" | 0.534 | 3-1/2" | 1.071 |
| 3/4" | 0.553 | 4" | 1.094 |
| 1" | 0.661 | 5" | 1.187 |
| 1-1/4" | 0.681 | 6" | 1.208 |
| 1-1/2" | 0.681 | 8" | 1.313 |

DIMENSIONS

SOCKET WELD



| CLASS 3000 DIMENSIONS AND WEIGHTS | | | | | | | | | | | | | |
|-----------------------------------|------|------|------|------|------|------|------|--------|--------|------|--------|------|------|
| Size | | 1/8" | 1/4" | 3/8" | 1/2" | 3/4" | 1" | 1-1/4" | 1-1/2" | 2" | 2-1/2" | 3" | 4" |
| B | Max. | 0.44 | 0.58 | 0.71 | 0.88 | 1.09 | 1.35 | 1.70 | 1.94 | 2.43 | 2.93 | 3.56 | 4.57 |
| | Min. | 0.42 | 0.56 | 0.69 | 0.86 | 1.07 | 1.33 | 1.68 | 1.92 | 2.41 | 2.91 | 3.54 | 4.55 |
| D | Max. | 0.30 | 0.39 | 0.52 | 0.65 | 0.85 | 1.08 | 1.41 | 1.64 | 2.10 | 2.53 | 3.13 | 4.09 |
| | Min. | 0.24 | 0.33 | 0.46 | 0.59 | 0.79 | 1.02 | 1.35 | 1.58 | 2.04 | 2.41 | 3.01 | 3.97 |
| C | Avg. | 0.13 | 0.15 | 0.16 | 0.18 | 0.19 | 0.22 | 0.24 | 0.25 | 0.27 | 0.35 | 0.38 | 0.42 |
| | Min. | 0.13 | 0.13 | 0.14 | 0.16 | 0.17 | 0.20 | 0.21 | 0.22 | 0.24 | 0.30 | 0.33 | 0.37 |
| G | Min. | 0.10 | 0.12 | 0.13 | 0.15 | 0.15 | 0.18 | 0.19 | 0.20 | 0.22 | 0.28 | 0.30 | 0.34 |
| J | Min. | 0.38 | 0.38 | 0.38 | 0.38 | 0.50 | 0.50 | 0.50 | 0.50 | 0.62 | 0.62 | 0.62 | 0.75 |
| A | | 0.44 | 0.44 | 0.53 | 0.62 | 0.75 | 0.88 | 1.06 | 1.25 | 1.50 | 1.62 | 2.25 | 2.62 |
| WEIGHT (KG) | | 0.10 | 0.10 | 0.13 | 0.24 | 0.34 | 0.51 | 0.77 | 1.03 | 1.59 | 2.79 | 4.80 | 14.5 |

Dimensions are expressed in inches
Weight is estimated

| CLASS 6000 DIMENSIONS AND WEIGHTS | | | | | | | | | |
|-----------------------------------|------|------|------|------|--------|--------|------|--------|------|
| Size | | 1/2" | 3/4" | 1" | 1-1/4" | 1-1/2" | 2" | 2-1/2" | 3" |
| B | Max. | 0.88 | 1.09 | 1.35 | 1.70 | 1.94 | 2.43 | 2.93 | 3.56 |
| | Min. | 0.86 | 1.07 | 1.33 | 1.68 | 1.92 | 2.41 | 2.91 | 3.54 |
| D | Max. | 0.49 | 0.64 | 0.85 | 1.19 | 1.37 | 1.72 | 2.53 | 3.13 |
| | Min. | 0.43 | 0.58 | 0.79 | 1.13 | 1.31 | 1.66 | 2.41 | 3.01 |
| C | Avg. | 0.23 | 0.27 | 0.31 | 0.31 | 0.35 | 0.43 | 0.35 | 0.38 |
| | Min. | 0.20 | 0.24 | 0.27 | 0.27 | 0.31 | 0.37 | 0.30 | 0.33 |
| G | Min. | 0.19 | 0.22 | 0.25 | 0.25 | 0.28 | 0.34 | 0.28 | 0.30 |
| J | Min. | 0.38 | 0.50 | 0.50 | 0.50 | 0.50 | 0.62 | 0.62 | 0.62 |
| A | | 0.75 | 0.88 | 1.06 | 1.25 | 1.50 | 1.62 | 1.62 | 2.25 |
| WEIGHT (KG) | | 0.46 | 0.73 | 1.13 | 1.50 | 2.29 | 3.47 | 6.21 | 9.52 |

Dimensions are expressed in inches
Weight is estimated

WELDING GAP AND MINIMUM FLAT DIMENSION

