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**KALPATARU  
PIPING SOLUTIONS**  
AN ISO 9001:2015 / PED C E / API 5L APPROVED CO.



## FORGED FITTINGS

### Stainless Steel & Duplex Steel

Stainless Steel : ASTM A 182F - 304/304H/304L/316/316H/316/316Ti  
309, 310, 317L, 321, 347, 904L  
Duplex & : ASTM A182 - F51, F53, F55  
Super Duplex

### Hi-Nickel & Titanium

#### Hi-Nickel

Nickel : ASTM B 564 N02200, N02201  
Inconel : ASTM B 564 N06600, N06601, N06617  
ASTM B 564 N07718, ASTM B 564 N06625  
Incoloy : ASTM B 564 N08800, N08810  
ASTM B 564, N08825, ASTM B 564 N08020  
Hastelloy : ASTM B 564 N10276, N06022  
ASTM B 564 N10665, ASTM B 564 No6455

#### Titanium

Commercially : ASTM B 381  
Titanium Pure Gr.1 R 56250 (CP4) Gr.2 R 50400 (CP3)  
Gr.3 R 50550 (CP2) Gr.4 R 50700 (CP1)  
Gr.7 R 52400 Gr.11 R 52250  
Titanium Alloys : ASTM B 381  
Gr.5 R 56400 (6Al-4V) Gr.23 R 56401 (6Al-4V-ELI)  
Gr.12 R 53400

#### Cupro Nickel

ASTM B 151 C70600 (90:10), ASTM B 151 C71500 (70:30)

### Monel

ASTM B 564 N04400, N05500

### Alloy Steel, Carbon Steel

Alloy Steel : ASTM A 182 F 5, F 9, F 11,  
F 12, F 22, F 91  
Carbon Steel : A105  
Low Temp. CS : ASTM A - 350 Lf2  
Other Service : Hot Dip Galvanizing, Sand Blasting

### Size

15NB To 100NB (Socket Weld & Threaded)

### Class

3000#, 6000#, 9000#, In ANSI B 16.11

### Types

|                     |          |
|---------------------|----------|
| Elbow (45 & 90 Deg) | Coupling |
| Tee                 | Cap      |
| Union               | Plug     |
| Cross               | Bushing  |
| Swage Nipple        | Boss     |

### Test Certificate

Manufacturer Test Certification (En 3.1 & 3.2, IBR Test Certificate)

### Specializing in :

#### Hi-Nickel & Stainless Steel Series

Inconel®, Incoloy®, Monel®, Hastelloy®, Duplex®,  
are Registered Trade Marks of their Respective Owners.



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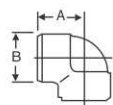


**KALPATARU**  
**PIPING SOLUTIONS**

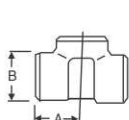
AN ISO 9001:2015 / PED C E / API 5L APPROVED CO.

## DIMENSION IN MM OF FORGED SCREWED FITTINGS TO ANSI B-16.11 THREADED TO ASA B 2.1

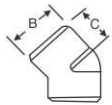
90° ELBOWS



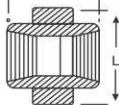
TEE



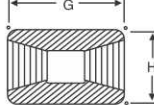
45° ELBOW



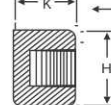
UNION



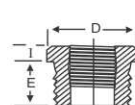
COUPLING



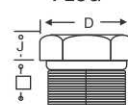
PIPE CAP



BUSHING



HEX HEAD PLUG

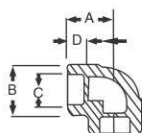


HALF COUPLING = G/2

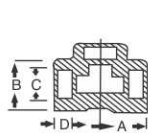
| NOM<br>BORE | PIPE<br>O.D. | 3000 L.B.S. |     |    |     |     |    | COMMON FACTORS |    |     |    |    |     | 6000 L.B.S |     |    |     |     |    |
|-------------|--------------|-------------|-----|----|-----|-----|----|----------------|----|-----|----|----|-----|------------|-----|----|-----|-----|----|
|             |              | A           | B   | C  | G   | H   | K  | D              | E  | F   | I  | J  | L   | A          | B   | C  | G   | H   | K  |
| 1/8"        | 10.3         | 21          | 22  | 17 | 32  | 16  | 19 | 11             | 10 | 40  | -  | 6  | -   | 25         | 25  | 19 | 32  | 22  | -  |
| 1/4"        | 13.7         | 25          | 25  | 19 | 35  | 19  | 25 | 16             | 11 | 43  | 3  | 6  | 32  | 29         | 33  | 22 | 35  | 25  | 27 |
| 3/8"        | 17.2         | 29          | 33  | 22 | 38  | 22  | 25 | 17.5           | 13 | 48  | 4  | 8  | 38  | 33         | 38  | 25 | 38  | 32  | 27 |
| 1/2"        | 21.3         | 33          | 38  | 25 | 48  | 29  | 32 | 22             | 15 | 51  | 5  | 8  | 46  | 38         | 46  | 29 | 48  | 38  | 33 |
| 3/4"        | 26.7         | 38          | 46  | 29 | 51  | 35  | 37 | 27             | 16 | 57  | 6  | 10 | 51  | 44         | 56  | 33 | 51  | 44  | 38 |
| 1"          | 33.4         | 44          | 56  | 33 | 60  | 44  | 41 | 35             | 19 | 64  | 6  | 10 | 60  | 51         | 62  | 35 | 60  | 57  | 43 |
| 1 1/4"      | 42.2         | 51          | 62  | 35 | 67  | 57  | 44 | 44.5           | 21 | 70  | 7  | 14 | 72  | 60         | 75  | 43 | 67  | 64  | 46 |
| 1 1/2"      | 48.3         | 60          | 75  | 43 | 79  | 64  | 44 | 51             | 21 | 79  | 8  | 16 | 80  | 64         | 84  | 44 | 79  | 76  | 48 |
| 2"          | 60.3         | 64          | 84  | 45 | 86  | 76  | 48 | 63.5           | 22 | 88  | 9  | 17 | 94  | 83         | 102 | 52 | 86  | 92  | 51 |
| 2 1/2"      | 73.02        | 83          | 102 | 52 | 92  | 92  | 60 | 76             | 27 | 118 | 10 | 21 | 122 | 95         | 121 | 64 | 92  | 108 | 64 |
| 3"          | 89.0         | 95          | 121 | 64 | 108 | 108 | 65 | 89             | 29 | 121 | 10 | 25 | 140 | 106        | 146 | 79 | 108 | 127 | 68 |
| 4"          | 114.5        | 114         | 152 | 79 | 121 | 140 | 68 | 117.5          | 32 | 150 | 13 | 25 | 180 | 114        | 152 | 79 | 121 | 159 | 75 |

## SOCKET WELD FITTING TO ANSI B-16.11

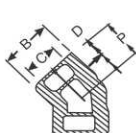
90° ELBOWS



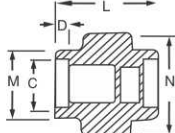
TEE



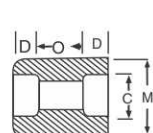
45° ELBOW



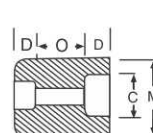
UNION



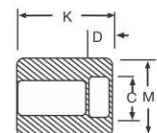
COUPLING



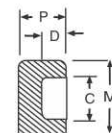
REDUCER



HALF COUPLING



CAP



| NOM<br>BORE | PIPE<br>O.D. | 3000 L.B.S. |      |    |    |     |       |     |      |    | COMMON FACTORS |       |       |       | 6000 L.B.S |     |    |    |     |
|-------------|--------------|-------------|------|----|----|-----|-------|-----|------|----|----------------|-------|-------|-------|------------|-----|----|----|-----|
|             |              | A           | B    | K  | J  | L   | M     | N   | P    | Q  | C min          | D min | O min | O max | A          | B   | M  | K  | N   |
| 1/8"        | 10.3         | 22          | 18.5 | 26 | 16 | 40  | 17.3  | 32  | 17.5 | 10 | 10.7           | 10    | 5     | 8     | 22         | 22  | 20 | 25 | 46  |
| 1/4"        | 13.7         | 22          | 22   | 26 | 18 | 43  | 21.2  | 32  | 17.5 | 10 | 14.1           | 10    | 5     | 8     | 27         | 25  | 24 | 25 | 51  |
| 3/8"        | 17.2         | 25          | 25   | 26 | 19 | 48  | 25.4  | 36  | 19   | 10 | 17.6           | 10    | 3     | 9     | 27         | 28  | 28 | 26 | 60  |
| 1/2"        | 21.3         | 27          | 32   | 30 | 21 | 51  | 31    | 43  | 22   | 10 | 21.7           | 10    | 6     | 13    | 31         | 34  | 34 | 31 | 72  |
| 3/4"        | 26.7         | 34          | 38   | 36 | 24 | 57  | 37    | 50  | 25   | 13 | 27             | 13    | 6     | 13    | 37         | 42  | 41 | 35 | 80  |
| 1"          | 33.4         | 37          | 46   | 40 | 25 | 64  | 45.2  | 60  | 27   | 13 | 33.8           | 13    | 9     | 17    | 42         | 50  | 50 | 40 | 94  |
| 1 1/4"      | 42.2         | 42          | 56   | 40 | 29 | 70  | 55    | 70  | 30   | 13 | 42.6           | 13    | 9     | 17    | 47         | 59  | 58 | 41 | 100 |
| 1 1/2"      | 48.3         | 47          | 62   | 40 | 30 | 79  | 61.4  | 78  | 32   | 13 | 48.7           | 13    | 9     | 17    | 53         | 67  | 55 | 43 | 122 |
| 2"          | 60.3         | 56          | 75   | 52 | 37 | 89  | 75    | 95  | 38   | 13 | 61.2           | 16    | 15    | 23    | 59         | 84  | 83 | 55 |     |
| 2 1/2"      | 73.02        | 60          | 92   | 52 | 48 | 114 | 91.3  | 125 | 38   | 16 | 73.8           | 16    | 14    | 24    |            | 102 |    | 56 |     |
| 3"          | 89.00        | 76          | 110  | 52 | 51 | 127 | 108.8 | 140 | 44   | 16 | 89.8           | 16    | 14    | 24    |            | 121 |    | 58 |     |
| 4"          | 114.50       | 88          | 137  | 58 |    | 150 | 136.9 |     | 48   | 19 | 115.5          | 19    | 14    | 24    |            | 152 |    | 64 |     |

DIMENSIONS AND OTHERS SPECIFICATIONS AS PER CUSTOMERS REQUIREMENTS ARE AVAILABLE ON REQUEST