

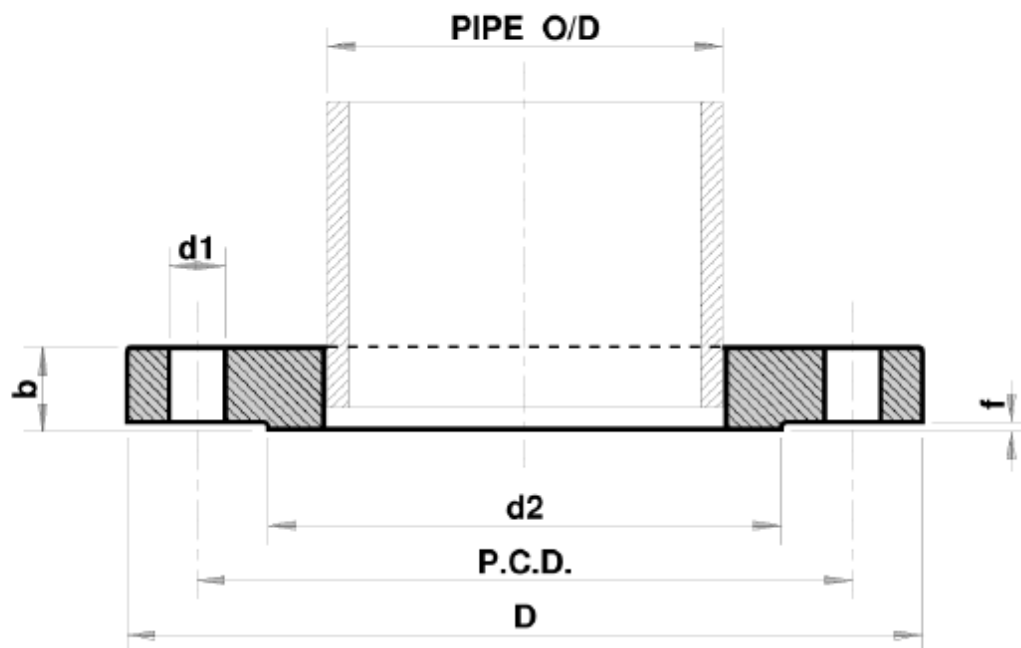


# ABEYLA TRADING

## FLANGE / PIPE TABLES



SANS 1123 ; BS 10 ; BS 4504 ; BS EN 1092 ; ANSI B 16.5



FLANGES SABS 1123, BS4504, BSEN1092, BS10, ANSI B16.5

# 15 mm Nominal Bore Pipe OD 21,3

| Table              |        | Flange |      | Raised Face |     | Holes |      | Bolt size | PCD  | Mass kg |
|--------------------|--------|--------|------|-------------|-----|-------|------|-----------|------|---------|
|                    |        | D      | b    | d2          | f   | No.   | d1   |           |      |         |
| <b>BS4504</b>      | 6/3    | 80,0   | 12,0 | 40,0        | 2,0 | 4     | 11,0 | M10       | 55,0 | 0,40    |
|                    | 10/3   | 95,0   | 14,0 | 45,0        | 2,0 | 4     | 14,0 | M12       | 65,0 | 0,67    |
|                    | 16/3   | 95,0   | 14,0 | 45,0        | 2,0 | 4     | 14,0 | M12       | 65,0 | 0,67    |
|                    | 25/3   | 95,0   | 16,0 | 45,0        | 2,0 | 4     | 14,0 | M12       | 65,0 | 0,76    |
|                    | 40/3   | 95,0   | 16,0 | 45,0        | 2,0 | 4     | 14,0 | M12       | 65,0 | 0,76    |
| <b>BS EN1092</b>   | 6/3    | 80,0   | 12,0 | 40,0        | 2,0 | 4     | 11,0 | M10       | 55,0 | 0,40    |
|                    | 10/3   | 95,0   | 14,0 | 45,0        | 2,0 | 4     | 14,0 | M12       | 65,0 | 0,67    |
|                    | 16/3   | 95,0   | 14,0 | 45,0        | 2,0 | 4     | 14,0 | M12       | 65,0 | 0,67    |
|                    | 25/3   | 95,0   | 14,0 | 45,0        | 2,0 | 4     | 14,0 | M12       | 65,0 | 0,67    |
|                    | 40/3   | 95,0   | 14,0 | 45,0        | 2,0 | 4     | 14,0 | M12       | 65,0 | 0,67    |
| <b>SANS1123</b>    | 600/3  | 80,0   | 10,0 | 40,0        | 2,0 | 4     | 11,0 | M10       | 55,0 | 0,33    |
|                    | 1000/3 | 95,0   | 10,0 | 45,0        | 2,0 | 4     | 14,0 | M12       | 65,0 | 0,48    |
|                    | 1600/3 | 95,0   | 10,0 | 45,0        | 2,0 | 4     | 14,0 | M12       | 65,0 | 0,48    |
|                    | 2500/3 | 95,0   | 14,0 | 45,0        | 2,0 | 4     | 14,0 | M12       | 65,0 | 0,76    |
|                    | 4000/3 | 95,0   | 14,0 | 45,0        | 2,0 | 4     | 14,0 | M12       | 65,0 | 0,76    |
| <b>BS 10</b>       | T/D    | 95,3   | 4,8  | -           | -   | 4     | 14,3 | M12       | 66,7 | 0,42    |
|                    | T/E    | 95,3   | 6,3  | -           | -   | 4     | 14,3 | M12       | 66,7 | 0,42    |
| <b>ANSI B 16,5</b> | 150lb  | 88,9   | 11,1 | 34,9        | 1,6 | 4     | 15,9 | M12       | 60,3 | 0,45    |
|                    | 300lb  | 95,2   | 14,3 | 34,9        | 1,6 | 4     | 15,9 | M12       | 66,7 | 0,91    |

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# 20 mm Nominal Bore Pipe OD 26,9

| Table              |        | Flange |      | Raised Face |     | Holes |      | Bolt size | PCD  | Mass kg |
|--------------------|--------|--------|------|-------------|-----|-------|------|-----------|------|---------|
|                    |        | D      | b    | d2          | f   | No.   | d1   |           |      |         |
| <b>BS4504</b>      | 6/3    | 90,0   | 14,0 | 50,0        | 2,0 | 4     | 11,0 | M10       | 65,0 | 0,58    |
|                    | 10/3   | 105,0  | 16,0 | 58,0        | 2,0 | 4     | 14,0 | M12       | 75,0 | 0,93    |
|                    | 16/3   | 105,0  | 16,0 | 58,0        | 2,0 | 4     | 14,0 | M12       | 75,0 | 0,93    |
|                    | 25/3   | 105,0  | 18,0 | 58,0        | 2,0 | 4     | 14,0 | M12       | 75,0 | 1,04    |
|                    | 40/3   | 105,0  | 18,0 | 58,0        | 2,0 | 4     | 14,0 | M12       | 75,0 | 1,04    |
| <b>BS EN1092</b>   | 6/3    | 90,0   | 14,0 | 50,0        | 2,0 | 4     | 11,0 | M10       | 65,0 | 0,58    |
|                    | 10/3   | 105,0  | 16,0 | 58,0        | 2,0 | 4     | 14,0 | M12       | 75,0 | 0,93    |
|                    | 16/3   | 105,0  | 16,0 | 58,0        | 2,0 | 4     | 14,0 | M12       | 75,0 | 0,93    |
|                    | 25/3   | 105,0  | 16,0 | 58,0        | 2,0 | 4     | 14,0 | M12       | 75,0 | 0,93    |
|                    | 40/3   | 105,0  | 16,0 | 58,0        | 2,0 | 4     | 14,0 | M12       | 75,0 | 0,93    |
| <b>SANS1123</b>    | 600/3  | 90,0   | 10,0 | 50,0        | 2,0 | 4     | 11,0 | M10       | 65,0 | 0,42    |
|                    | 1000/3 | 105,0  | 10,0 | 58,0        | 2,0 | 4     | 14,0 | M12       | 75,0 | 0,58    |
|                    | 1600/3 | 105,0  | 10,0 | 58,0        | 2,0 | 4     | 14,0 | M12       | 75,0 | 0,58    |
|                    | 2500/3 | 105,0  | 14,0 | 58,0        | 2,0 | 4     | 14,0 | M12       | 75,0 | 1,04    |
|                    | 4000/3 | 105,0  | 14,0 | 58,0        | 2,0 | 4     | 14,0 | M12       | 75,0 | 1,04    |
| <b>BS 10</b>       | T/D    | 101,6  | 9,5  | -           | -   | 4     | 14,2 | M12       | 73,0 | 0,53    |
|                    | T/E    | 101,6  | 9,5  | -           | -   | 4     | 14,2 | M12       | 73,0 | 0,53    |
| <b>ANSI B 16,5</b> | 150lb  | 98,4   | 12,7 | 42,9        | 1,6 | 4     | 16   | M12       | 69,8 | 0,68    |
|                    | 300lb  | 117,5  | 15,9 | 42,9        | 1,6 | 4     | 19   | M16       | 82,5 | 1,25    |

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## 25 mm Nominal Bore Pipe OD 33,7

| Table              |        | Flange |      | Raised Face |     | Holes |      | Bolt<br>size | PCD  | Mass<br>kg |
|--------------------|--------|--------|------|-------------|-----|-------|------|--------------|------|------------|
|                    |        | D      | b    | d2          | f   | No.   | d1   |              |      |            |
| <b>BS4504</b>      | 6/3    | 100,0  | 14,0 | 60,0        | 2,0 | 4     | 11,0 | M10          | 75,0 | 0,69       |
|                    | 10/3   | 115,0  | 16,0 | 68,0        | 2,0 | 4     | 14,0 | M12          | 85,0 | 1,11       |
|                    | 16/3   | 115,0  | 16,0 | 68,0        | 2,0 | 4     | 14,0 | M12          | 85,0 | 1,11       |
|                    | 25/3   | 115,0  | 18,0 | 68,0        | 2,0 | 4     | 14,0 | M12          | 85,0 | 1,24       |
|                    | 40/3   | 115,0  | 18,0 | 68,0        | 2,0 | 4     | 14,0 | M12          | 85,0 | 1,24       |
| <b>BS EN1092</b>   | 6/3    | 100,0  | 14,0 | 60,0        | 2,0 | 4     | 11,0 | M10          | 75,0 | 0,69       |
|                    | 10/3   | 115,0  | 16,0 | 68,0        | 2,0 | 4     | 14,0 | M12          | 85,0 | 1,11       |
|                    | 16/3   | 115,0  | 16,0 | 68,0        | 2,0 | 4     | 14,0 | M12          | 85,0 | 1,11       |
|                    | 25/3   | 115,0  | 16,0 | 68,0        | 2,0 | 4     | 14,0 | M12          | 85,0 | 1,11       |
|                    | 40/3   | 115,0  | 16,0 | 68,0        | 2,0 | 4     | 14,0 | M12          | 85,0 | 1,11       |
| <b>SANS1123</b>    | 600/3  | 100,0  | 10,0 | 60,0        | 2,0 | 4     | 11,0 | M10          | 75,0 | 0,49       |
|                    | 1000/3 | 115,0  | 10,0 | 68,0        | 2,0 | 4     | 14,0 | M12          | 85,0 | 0,69       |
|                    | 1600/3 | 115,0  | 10,0 | 68,0        | 2,0 | 4     | 14,0 | M12          | 85,0 | 0,69       |
|                    | 2500/3 | 115,0  | 16,0 | 68,0        | 2,0 | 4     | 14,0 | M12          | 85,0 | 1,24       |
|                    | 4000/3 | 115,0  | 16,0 | 68,0        | 2,0 | 4     | 14,0 | M12          | 85,0 | 1,24       |
| <b>BS 10</b>       | T/D    | 114,3  | 4,8  | -           | -   | 4     | 14,3 | M12          | 82,6 | 0,7        |
|                    | T/E    | 114,3  | 7,1  | -           | -   | 4     | 14,3 | M16          | 82,6 | 0,7        |
| <b>ANSI B 16,5</b> | 150lb  | 107,9  | 14,3 | 50,8        | 1,6 | 4     | 16   | M12          | 79,4 | 0,95       |
|                    | 300lb  | 123,8  | 17,5 | 50,8        | 1,6 | 4     | 19   | M16          | 66,7 | 1,36       |

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## 32 mm Nominal Bore Pipe OD 42,4

| Table              |        | Flange |      | Raised Face |     | Holes |      | Bolt<br>size | PCD   | Mass<br>kg |
|--------------------|--------|--------|------|-------------|-----|-------|------|--------------|-------|------------|
|                    |        | D      | b    | d2          | f   | No.   | d1   |              |       |            |
| <b>BS4504</b>      | 6/3    | 120,0  | 16,0 | 70,0        | 2,0 | 4     | 14,0 | M12          | 90,0  | 1,14       |
|                    | 10/3   | 140,0  | 16,0 | 78,0        | 2,0 | 4     | 18,0 | M16          | 100,0 | 1,60       |
|                    | 16/3   | 140,0  | 16,0 | 78,0        | 2,0 | 4     | 18,0 | M16          | 100,0 | 1,60       |
|                    | 25/3   | 140,0  | 18,0 | 78,0        | 2,0 | 4     | 18,0 | M16          | 100,0 | 1,80       |
|                    | 40/3   | 140,0  | 18,0 | 78,0        | 2,0 | 4     | 18,0 | M16          | 100,0 | 1,80       |
| <b>BS EN1092</b>   | 6/3    | 120,0  | 16,0 | 70,0        | 2,0 | 4     | 14,0 | M12          | 90,0  | 1,14       |
|                    | 10/3   | 140,0  | 18,0 | 78,0        | 2,0 | 4     | 18,0 | M16          | 100,0 | 1,80       |
|                    | 16/3   | 140,0  | 18,0 | 78,0        | 2,0 | 4     | 18,0 | M16          | 100,0 | 1,80       |
|                    | 25/3   | 140,0  | 18,0 | 78,0        | 2,0 | 4     | 18,0 | M16          | 100,0 | 1,80       |
|                    | 40/3   | 140,0  | 18,0 | 78,0        | 2,0 | 4     | 18,0 | M16          | 100,0 | 1,80       |
| <b>SANS1123</b>    | 600/3  | 120,0  | 10,0 | 70,0        | 2,0 | 4     | 14,0 | M12          | 90,0  | 0,71       |
|                    | 1000/3 | 140,0  | 10,0 | 78,0        | 2,0 | 4     | 18,0 | M16          | 100,0 | 1,01       |
|                    | 1600/3 | 140,0  | 10,0 | 78,0        | 2,0 | 4     | 18,0 | M16          | 100,0 | 1,01       |
|                    | 2500/3 | 140,0  | 18,0 | 78,0        | 2,0 | 4     | 18,0 | M16          | 100,0 | 1,80       |
|                    | 4000/3 | 140,0  | 18,0 | 78,0        | 2,0 | 4     | 18,0 | M16          | 100,0 | 1,80       |
| <b>BS 10</b>       | T/D    | 120,7  | 6,3  | -           | -   | 4     | 14,2 | M12          | 87,3  | 0,8        |
|                    | T/E    | 120,7  | 7,9  | -           | -   | 4     | 14,2 | M16          | 87,3  | 0,8        |
| <b>ANSI B 16,5</b> | 150lb  | 117,5  | 15,9 | 73,9        | 1,6 | 4     | 15,9 | M12          | 88,9  | 1,11       |
|                    | 300lb  | 133,3  | 19   | 63,5        | 1,6 | 4     | 19   | M16          | 98,4  | 2,04       |

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# 40 mm Nominal Bore Pipe OD 48,3

| Table              |        | Flange |      | Raised Face |     | Holes |      | Bolt size | PCD   | Mass kg |
|--------------------|--------|--------|------|-------------|-----|-------|------|-----------|-------|---------|
|                    |        | D      | b    | d2          | f   | No.   | d1   |           |       |         |
| <b>BS4504</b>      | 6/3    | 130,0  | 16,0 | 80,0        | 3,0 | 4     | 14,0 | M12       | 100,0 | 1,34    |
|                    | 10/3   | 150,0  | 16,0 | 88,0        | 3,0 | 4     | 18,0 | M16       | 110,0 | 1,84    |
|                    | 16/3   | 150,0  | 16,0 | 88,0        | 3,0 | 4     | 18,0 | M16       | 110,0 | 1,84    |
|                    | 25/3   | 150,0  | 20,0 | 88,0        | 3,0 | 4     | 18,0 | M16       | 110,0 | 2,30    |
|                    | 40/3   | 150,0  | 20,0 | 88,0        | 3,0 | 4     | 18,0 | M16       | 110,0 | 2,30    |
| <b>BS EN1092</b>   | 6/3    | 130,0  | 16,0 | 80,0        | 3,0 | 4     | 14,0 | M12       | 100,0 | 1,34    |
|                    | 10/3   | 150,0  | 18,0 | 88,0        | 3,0 | 4     | 18,0 | M16       | 110,0 | 2,10    |
|                    | 16/3   | 150,0  | 18,0 | 88,0        | 3,0 | 4     | 18,0 | M16       | 110,0 | 2,10    |
|                    | 25/3   | 150,0  | 18,0 | 88,0        | 3,0 | 4     | 18,0 | M16       | 110,0 | 2,10    |
|                    | 40/3   | 150,0  | 18,0 | 88,0        | 3,0 | 4     | 18,0 | M16       | 110,0 | 2,10    |
| <b>SANS1123</b>    | 600/3  | 130,0  | 10,0 | 80,0        | 3,0 | 4     | 14,0 | M12       | 100,0 | 0,84    |
|                    | 1000/3 | 150,0  | 10,0 | 88,0        | 3,0 | 4     | 18,0 | M16       | 110,0 | 1,15    |
|                    | 1600/3 | 150,0  | 10,0 | 88,0        | 3,0 | 4     | 18,0 | M16       | 110,0 | 1,15    |
|                    | 2500/3 | 150,0  | 20,0 | 88,0        | 3,0 | 4     | 18,0 | M16       | 110,0 | 2,30    |
|                    | 4000/3 | 150,0  | 20,0 | 88,0        | 3,0 | 4     | 18,0 | M16       | 110,0 | 2,30    |
| <b>BS 10</b>       | T/D    | 133,4  | 6,3  | -           | -   | 4     | 14,2 | M12       | 98,4  | 1,00    |
|                    | T/E    | 133,4  | 8,7  | -           | -   | 4     | 18,0 | M12       | 98,4  | 1,00    |
| <b>ANSI B 16,5</b> | 150lb  | 127,0  | 17,5 | 73,0        | 1,6 | 4     | 16   | M12       | 98,4  | 1,4     |
|                    | 300lb  | 155,6  | 20,6 | 73,0        | 1,6 | 4     | 18   | M16       | 114,3 | 2,81    |

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# 50 mm Nominal Bore Pipe OD 60,3

| Table              |        | Flange |      | Raised Face |     | Holes |      | Bolt size | PCD   | Mass kg |
|--------------------|--------|--------|------|-------------|-----|-------|------|-----------|-------|---------|
|                    |        | D      | b    | d2          | f   | No.   | d1   |           |       |         |
| <b>BS4504</b>      | 6/3    | 140,0  | 16,0 | 90,0        | 3,0 | 4     | 14,0 | M12       | 110,0 | 1,48    |
|                    | 10/3   | 165,0  | 18,0 | 102,0       | 3,0 | 4     | 18,0 | M16       | 125,0 | 2,45    |
|                    | 16/3   | 165,0  | 18,0 | 102,0       | 3,0 | 4     | 18,0 | M16       | 125,0 | 2,45    |
|                    | 25/3   | 165,0  | 20,0 | 102,0       | 3,0 | 4     | 18,0 | M16       | 125,0 | 2,72    |
|                    | 40/3   | 165,0  | 20,0 | 102,0       | 3,0 | 4     | 18,0 | M16       | 125,0 | 2,72    |
| <b>BS EN1092</b>   | 6/3    | 140,0  | 16,0 | 90,0        | 3,0 | 4     | 14,0 | M12       | 110,0 | 1,48    |
|                    | 10/3   | 165,0  | 20,0 | 102,0       | 3,0 | 4     | 18,0 | M16       | 125,0 | 2,72    |
|                    | 16/3   | 165,0  | 20,0 | 102,0       | 3,0 | 4     | 18,0 | M16       | 125,0 | 2,72    |
|                    | 25/3   | 165,0  | 20,0 | 102,0       | 3,0 | 4     | 18,0 | M16       | 125,0 | 2,72    |
|                    | 40/3   | 165,0  | 20,0 | 102,0       | 3,0 | 4     | 18,0 | M16       | 125,0 | 2,72    |
| <b>SANS1123</b>    | 600/3  | 140,0  | 10,0 | 90,0        | 3,0 | 4     | 14,0 | M12       | 110,0 | 0,92    |
|                    | 1000/3 | 165,0  | 10,0 | 102,0       | 3,0 | 4     | 18,0 | M16       | 125,0 | 1,36    |
|                    | 1600/3 | 165,0  | 12,0 | 102,0       | 3,0 | 4     | 18,0 | M16       | 125,0 | 1,63    |
|                    | 2500/3 | 165,0  | 20,0 | 102,0       | 3,0 | 4     | 18,0 | M16       | 125,0 | 2,72    |
|                    | 4000/3 | 165,0  | 20,0 | 102,0       | 3,0 | 4     | 18,0 | M16       | 125,0 | 2,72    |
| <b>BS 10</b>       | T/D    | 152,4  | 7,9  | -           | -   | 4     | 17,5 | M16       | 114,3 | 0,88    |
|                    | T/E    | 152,4  | 9,5  | -           | -   | 4     | 17,5 | M16       | 114,3 | 1,06    |
| <b>ANSI B 16,5</b> | 150lb  | 152,4  | 19,0 | 92,0        | 1,6 | 4     | 19,0 | M16       | 120,6 | 2,3     |
|                    | 300lb  | 165,1  | 22,2 | 92,1        | 1,6 | 8     | 19   | M16       | 127,0 | 3,13    |

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# 65 mm Nominal Bore Pipe OD 76,1

| Table              |        | Flange |      | Raised Face |     | Holes |      | Bolt size | PCD   | Mass kg |
|--------------------|--------|--------|------|-------------|-----|-------|------|-----------|-------|---------|
|                    |        | D      | b    | d2          | f   | No.   | d1   |           |       |         |
| <b>BS4504</b>      | 6/3    | 160,0  | 16,0 | 110,0       | 3,0 | 4     | 14,0 | M12       | 130,0 | 1,85    |
|                    | 10/3   | 185,0  | 18,0 | 122,0       | 3,0 | 4     | 18,0 | M16       | 145,0 | 2,98    |
|                    | 16/3   | 185,0  | 18,0 | 122,0       | 3,0 | 4     | 18,0 | M16       | 145,0 | 2,98    |
|                    | 25/3   | 185,0  | 22,0 | 122,0       | 3,0 | 8     | 18,0 | M16       | 145,0 | 3,64    |
|                    | 40/3   | 185,0  | 22,0 | 122,0       | 3,0 | 8     | 18,0 | M16       | 145,0 | 3,64    |
| <b>BS EN1092</b>   | 6/3    | 160,0  | 16,0 | 110,0       | 3,0 | 4     | 14,0 | M12       | 130,0 | 1,85    |
|                    | 10/3   | 185,0  | 20,0 | 122,0       | 3,0 | 4     | 18,0 | M16       | 145,0 | 3,64    |
|                    | 16/3   | 185,0  | 20,0 | 122,0       | 3,0 | 4     | 18,0 | M16       | 145,0 | 3,64    |
|                    | 25/3   | 185,0  | 22,0 | 122,0       | 3,0 | 8     | 18,0 | M16       | 145,0 | 3,64    |
|                    | 40/3   | 185,0  | 22,0 | 122,0       | 3,0 | 8     | 18,0 | M16       | 145,0 | 3,64    |
| <b>SANS1123</b>    | 600/3  | 160,0  | 10,0 | 110,0       | 3,0 | 4     | 14,0 | M12       | 130,0 | 1,15    |
|                    | 1000/3 | 185,0  | 12,0 | 122,0       | 3,0 | 4     | 18,0 | M16       | 145,0 | 1,98    |
|                    | 1600/3 | 185,0  | 12,0 | 122,0       | 3,0 | 4     | 18,0 | M16       | 145,0 | 1,98    |
|                    | 2500/3 | 185,0  | 22,0 | 122,0       | 3,0 | 8     | 18,0 | M16       | 145,0 | 3,64    |
|                    | 4000/3 | 185,0  | 22,0 | 122,0       | 3,0 | 8     | 18,0 | M16       | 145,0 | 3,64    |
| <b>BS 10</b>       | T/D    | 165,1  | 7,9  | -           | -   | 4     | 17,5 | M16       | 127,0 | 1,3     |
|                    | T/E    | 165,1  | 10,3 | -           | -   | 4     | 17,5 | M16       | 127,0 | 1,6     |
| <b>ANSI B 16,5</b> | 150lb  | 177,8  | 22,2 | 104,8       | 1,6 | 4     | 19,0 | M16       | 139,7 | 3,82    |
|                    | 300lb  | 190,5  | 25,4 | 104,8       | 1,6 | 8     | 22   | M20       | 149,2 | 4,54    |

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# 80 mm Nominal Bore Pipe OD 88,9

| Table              |        | Flange |      | Raised Face |     | Holes |      | Bolt size | PCD   | Mass kg |
|--------------------|--------|--------|------|-------------|-----|-------|------|-----------|-------|---------|
|                    |        | D      | b    | d2          | f   | No.   | d1   |           |       |         |
| <b>BS4504</b>      | 6/3    | 190,0  | 18,0 | 128,0       | 3,0 | 4     | 18,0 | M16       | 150,0 | 2,95    |
|                    | 10/3   | 200,0  | 20,0 | 138,0       | 3,0 | 8     | 18,0 | M16       | 160,0 | 3,61    |
|                    | 16/3   | 200,0  | 20,0 | 138,0       | 3,0 | 8     | 18,0 | M16       | 160,0 | 3,61    |
|                    | 25/3   | 200,0  | 24,0 | 138,0       | 3,0 | 8     | 18,0 | M16       | 160,0 | 4,33    |
|                    | 40/3   | 200,0  | 24,0 | 138,0       | 3,0 | 8     | 18,0 | M16       | 160,0 | 4,33    |
| <b>BS EN1092</b>   | 6/3    | 190,0  | 18,0 | 128,0       | 3,0 | 4     | 18,0 | M16       | 150,0 | 2,95    |
|                    | 10/3   | 200,0  | 20,0 | 138,0       | 3,0 | 8     | 18,0 | M16       | 160,0 | 3,61    |
|                    | 16/3   | 200,0  | 20,0 | 138,0       | 3,0 | 8     | 18,0 | M16       | 160,0 | 3,61    |
|                    | 25/3   | 200,0  | 24,0 | 138,0       | 3,0 | 8     | 18,0 | M16       | 160,0 | 4,33    |
|                    | 40/3   | 200,0  | 24,0 | 138,0       | 3,0 | 8     | 18,0 | M16       | 160,0 | 4,33    |
| <b>SANS1123</b>    | 600/3  | 190,0  | 10,0 | 128,0       | 3,0 | 4     | 18,0 | M16       | 150,0 | 1,64    |
|                    | 1000/3 | 200,0  | 12,0 | 138,0       | 3,0 | 8     | 18,0 | M16       | 160,0 | 2,17    |
|                    | 1600/3 | 200,0  | 14,0 | 138,0       | 3,0 | 8     | 18,0 | M16       | 160,0 | 2,64    |
|                    | 2500/3 | 200,0  | 22,0 | 138,0       | 3,0 | 8     | 18,0 | M16       | 160,0 | 3,95    |
|                    | 4000/3 | 200,0  | 22,0 | 138,0       | 3,0 | 8     | 18,0 | M16       | 160,0 | 3,95    |
| <b>BS 10</b>       | T/D    | 184,1  | 9,5  | -           | -   | 4     | 17,5 | M16       | 146,0 | 1,43    |
|                    | T/E    | 184,1  | 11,1 | -           | -   | 4     | 17,5 | M16       | 146,0 | 1,80    |
| <b>ANSI B 16,5</b> | 150lb  | 190,5  | 23,8 | 127,0       | 1,6 | 4     | 19,0 | M16       | 152,4 | 4,08    |
|                    | 300lb  | 209,5  | 28,6 | 127,0       | 1,6 | 8     | 22   | M20       | 168,3 | 6,12    |

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# 100 mm Nominal Bore Pipe OD 114,3

| Table              |        | Flange |      | Raised Face |     | Holes |      | Bolt size | PCD   | Mass kg |
|--------------------|--------|--------|------|-------------|-----|-------|------|-----------|-------|---------|
|                    |        | D      | b    | d2          | f   | No.   | d1   |           |       |         |
| <b>BS4504</b>      | 6/3    | 210,0  | 18,0 | 148,0       | 3,0 | 4     | 18,0 | M16       | 170,0 | 3,25    |
|                    | 10/3   | 220,0  | 20,0 | 158,0       | 3,0 | 8     | 18,0 | M16       | 180,0 | 3,99    |
|                    | 16/3   | 220,0  | 20,0 | 158,0       | 3,0 | 8     | 18,0 | M16       | 180,0 | 3,99    |
|                    | 25/3   | 235,0  | 26,0 | 162,0       | 3,0 | 8     | 22,0 | M20       | 190,0 | 6,04    |
|                    | 40/3   | 235,0  | 26,0 | 162,0       | 3,0 | 8     | 22,0 | M20       | 190,0 | 6,04    |
| <b>BS EN1092</b>   | 6/3    | 210,0  | 18,0 | 148,0       | 3,0 | 4     | 18,0 | M16       | 170,0 | 3,25    |
|                    | 10/3   | 220,0  | 22,0 | 158,0       | 3,0 | 8     | 18,0 | M16       | 180,0 | 4,80    |
|                    | 16/3   | 220,0  | 22,0 | 158,0       | 3,0 | 8     | 18,0 | M16       | 180,0 | 4,80    |
|                    | 25/3   | 235,0  | 26,0 | 162,0       | 3,0 | 8     | 22,0 | M20       | 190,0 | 6,04    |
|                    | 40/3   | 235,0  | 26,0 | 162,0       | 3,0 | 8     | 22,0 | M20       | 190,0 | 6,04    |
| <b>SANS1123</b>    | 600/3  | 210,0  | 10,0 | 148,0       | 3,0 | 4     | 18,0 | M16       | 170,0 | 1,81    |
|                    | 1000/3 | 220,0  | 12,0 | 158,0       | 3,0 | 8     | 18,0 | M16       | 180,0 | 2,39    |
|                    | 1600/3 | 220,0  | 14,0 | 158,0       | 3,0 | 8     | 18,0 | M16       | 180,0 | 2,90    |
|                    | 2500/3 | 235,0  | 25,0 | 162,0       | 3,0 | 8     | 22,0 | M20       | 190,0 | 6,04    |
|                    | 4000/3 | 235,0  | 25,0 | 162,0       | 3,0 | 8     | 22,0 | M20       | 190,0 | 6,04    |
| <b>BS 10</b>       | T/D    | 215,9  | 9,5  | -           | -   | 4     | 17,5 | M16       | 177,8 | 2,00    |
|                    | T/E    | 215,9  | 13,7 | -           | -   | 8     | 17,5 | M16       | 177,8 | 2,00    |
| <b>ANSI B 16,5</b> | 150lb  | 228,6  | 23,8 | 157,2       | 1,6 | 8     | 19,0 | M16       | 190,5 | 5,94    |
|                    | 300lb  | 254,0  | 31,7 | 157,2       | 1,6 | 8     | 22   | M20       | 200,0 | 9,53    |

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# 125 mm Nominal Bore Pipe OD 139,7

| Table              |        | Flange |      | Raised Face |     | Holes |      | Bolt size | PCD   | Mass kg |
|--------------------|--------|--------|------|-------------|-----|-------|------|-----------|-------|---------|
|                    |        | D      | b    | d2          | f   | No.   | d1   |           |       |         |
| <b>BS4504</b>      | 6/3    | 240,0  | 20,0 | 178,0       | 3,0 | 8     | 18,0 | M16       | 200,0 | 4,33    |
|                    | 10/3   | 250,0  | 22,0 | 188,0       | 3,0 | 8     | 18,0 | M16       | 210,0 | 5,42    |
|                    | 16/3   | 250,0  | 22,0 | 188,0       | 3,0 | 8     | 18,0 | M16       | 210,0 | 5,42    |
|                    | 25/3   | 270,0  | 28,0 | 188,0       | 3,0 | 8     | 26,0 | M24       | 220,0 | 8,21    |
|                    | 40/3   | 270,0  | 28,0 | 188,0       | 3,0 | 8     | 26,0 | M24       | 220,0 | 8,21    |
| <b>BS EN1092</b>   | 6/3    | 240,0  | 20,0 | 178,0       | 3,0 | 8     | 18,0 | M16       | 200,0 | 4,33    |
|                    | 10/3   | 250,0  | 22,0 | 188,0       | 3,0 | 8     | 18,0 | M16       | 210,0 | 5,42    |
|                    | 16/3   | 250,0  | 22,0 | 188,0       | 3,0 | 8     | 18,0 | M16       | 210,0 | 5,42    |
|                    | 25/3   | 270,0  | 28,0 | 188,0       | 3,0 | 8     | 26,0 | M24       | 220,0 | 8,21    |
|                    | 40/3   | 270,0  | 28,0 | 188,0       | 3,0 | 8     | 26,0 | M24       | 220,0 | 8,21    |
| <b>SANS1123</b>    | 600/3  | 240,0  | 12,0 | 178,0       | 3,0 | 8     | 18,0 | M16       | 200,0 | 2,60    |
|                    | 1000/3 | 250,0  | 14,0 | 188,0       | 3,0 | 8     | 18,0 | M16       | 210,0 | 3,45    |
|                    | 1600/3 | 250,0  | 16,0 | 188,0       | 3,0 | 8     | 18,0 | M16       | 210,0 | 4,07    |
|                    | 2500/3 | 270,0  | 28,0 | 188,0       | 3,0 | 8     | 26,0 | M24       | 220,0 | 8,21    |
|                    | 4000/3 | 270,0  | 28,0 | 188,0       | 3,0 | 8     | 26,0 | M24       | 220,0 | 8,21    |
| <b>BS 10</b>       | T/D    | 254,0  | 12,7 | -           | -   | 8     | 17,5 | M16       | 209,6 | 3,48    |
|                    | T/E    | 254,0  | 14,3 | -           | -   | 8     | 17,5 | M20       | 209,6 | 3,84    |
| <b>ANSI B 16,5</b> | 150lb  | 254,0  | 23,8 | 185,7       | 1,6 | 8     | 22   | M20       | 215,9 | 6,25    |
|                    | 300lb  | 279,4  | 34,9 | 185,7       | 1,6 | 8     | 22   | M20       | 234,9 | 12,70   |

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# 150 mm Nominal Bore Pipe OD 168,3 or 165,1 (to be specified)

| Table              |        | Flange |      | Raised Face |     | Holes |      | Bolt size | PCD   | Mass kg |
|--------------------|--------|--------|------|-------------|-----|-------|------|-----------|-------|---------|
|                    |        | D      | b    | d2          | f   | No.   | d1   |           |       |         |
| <b>BS4504</b>      | 6/3    | 265,0  | 20,0 | 202,0       | 3,0 | 8     | 18,0 | M16       | 225,0 | 4,86    |
|                    | 10/3   | 285,0  | 22,0 | 212,0       | 3,0 | 8     | 22,0 | M20       | 240,0 | 6,66    |
|                    | 16/3   | 285,0  | 22,0 | 212,0       | 3,0 | 8     | 22,0 | M20       | 240,0 | 6,66    |
|                    | 25/3   | 300,0  | 30,0 | 218,0       | 3,0 | 8     | 26,0 | M24       | 250,0 | 10,42   |
|                    | 40/3   | 300,0  | 30,0 | 218,0       | 3,0 | 8     | 26,0 | M24       | 250,0 | 10,42   |
| <b>BS EN1092</b>   | 6/3    | 265,0  | 20,0 | 202,0       | 3,0 | 8     | 18,0 | M16       | 225,0 | 4,86    |
|                    | 10/3   | 285,0  | 24,0 | 212,0       | 3,0 | 8     | 22,0 | M20       | 240,0 | 7,50    |
|                    | 16/3   | 285,0  | 24,0 | 212,0       | 3,0 | 8     | 22,0 | M20       | 240,0 | 7,50    |
|                    | 25/3   | 300,0  | 30,0 | 218,0       | 3,0 | 8     | 26,0 | M24       | 250,0 | 10,42   |
|                    | 40/3   | 300,0  | 30,0 | 218,0       | 3,0 | 8     | 26,0 | M24       | 250,0 | 10,42   |
| <b>SANS1123</b>    | 600/3  | 265,0  | 12,0 | 202,0       | 3,0 | 8     | 18,0 | M16       | 225,0 | 2,91    |
|                    | 1000/3 | 285,0  | 16,0 | 212,0       | 3,0 | 8     | 22,0 | M20       | 240,0 | 4,81    |
|                    | 1600/3 | 285,0  | 18,0 | 212,0       | 3,0 | 8     | 22,0 | M20       | 240,0 | 5,41    |
|                    | 2500/3 | 300,0  | 30,0 | 218,0       | 3,0 | 8     | 26,0 | M24       | 250,0 | 10,42   |
|                    | 4000/3 | 300,0  | 30,0 | 218,0       | 3,0 | 8     | 26,0 | M24       | 250,0 | 10,42   |
| <b>BS 10</b>       | T/D    | 279,4  | 12,7 | -           | -   | 8     | 17,5 | M16       | 235,0 | 3,88    |
|                    | T/E    | 279,4  | 17,5 | -           | -   | 8     | 22,2 | M20       | 235,0 | 5,36    |
| <b>ANSI B 16,5</b> | 150lb  | 279,4  | 25,4 | 215,9       | 1,6 | 8     | 22,2 | M20       | 241,3 | 8,16    |
|                    | 300lb  | 317,5  | 36,5 | 215,9       | 1,6 | 12    | 22,2 | M20       | 269,9 | 16,33   |

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# 200 mm Nominal Bore Pipe OD 219,1

| Table              |        | Flange |      | Raised Face |     | Holes |      | Bolt size | PCD   | Mass kg |
|--------------------|--------|--------|------|-------------|-----|-------|------|-----------|-------|---------|
|                    |        | D      | b    | d2          | f   | No.   | d1   |           |       |         |
| <b>BS4504</b>      | 6/3    | 320,0  | 22,0 | 258,0       | 3,0 | 8     | 18,0 | M16       | 280,0 | 6,91    |
|                    | 10/3   | 340,0  | 24,0 | 268,0       | 3,0 | 8     | 22,0 | M20       | 295,0 | 9,30    |
|                    | 16/3   | 340,0  | 24,0 | 268,0       | 3,0 | 12    | 22,0 | M20       | 295,0 | 9,30    |
|                    | 25/3   | 360,0  | 28,0 | 278,0       | 3,0 | 12    | 26,0 | M24       | 310,0 | 12,53   |
|                    | 40/3   | 375,0  | 34,0 | 285,0       | 3,0 | 12    | 30,0 | M27       | 320,0 | 16,96   |
| <b>BS EN1092</b>   | 6/3    | 320,0  | 22,0 | 258,0       | 3,0 | 8     | 18,0 | M16       | 280,0 | 6,91    |
|                    | 10/3   | 340,0  | 24,0 | 268,0       | 3,0 | 8     | 22,0 | M20       | 295,0 | 9,30    |
|                    | 16/3   | 340,0  | 26,0 | 268,0       | 3,0 | 12    | 22,0 | M20       | 295,0 | 10,3    |
|                    | 25/3   | 360,0  | 32,0 | 278,0       | 3,0 | 12    | 26,0 | M24       | 310,0 | 14,4    |
|                    | 40/3   | 375,0  | 36,0 | 285,0       | 3,0 | 12    | 30,0 | M27       | 320,0 | 18,30   |
| <b>SANS1123</b>    | 600/3  | 320,0  | 14,0 | 258,0       | 3,0 | 8     | 18,0 | M16       | 280,0 | 4,4     |
|                    | 1000/3 | 340,0  | 18,0 | 268,0       | 3,0 | 8     | 22,0 | M20       | 295,0 | 6,97    |
|                    | 1600/3 | 340,0  | 22,0 | 268,0       | 3,0 | 12    | 22,0 | M20       | 295,0 | 7,51    |
|                    | 2500/3 | 360,0  | 28,0 | 278,0       | 3,0 | 12    | 26,0 | M24       | 310,0 | 12,59   |
|                    | 4000/3 | 375,0  | 32,0 | 285,0       | 3,0 | 12    | 26,0 | M24       | 320,0 | 16,96   |
| <b>BS 10</b>       | T/D    | 336,6  | 12,7 | -           | -   | 8     | 17,5 | M16       | 292,1 | 4,91    |
|                    | T/E    | 336,6  | 19,0 | -           | -   | 8     | 22,2 | M20       | 292,1 | 7,59    |
| <b>ANSI B 16,5</b> | 150lb  | 342,9  | 28,6 | 269,9       | 1,6 | 8     | 22,2 | M20       | 298,4 | 12,7    |
|                    | 300lb  | 381,0  | 41,3 | 269,9       | 1,6 | 12    | 22,2 | M20       | 330,2 | 25,4    |

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## 250 mm Nominal Bore Pipe OD 273

| Table              |        | Flange |      | Raised Face |     | Holes |      | Bolt size | PCD   | Mass kg |
|--------------------|--------|--------|------|-------------|-----|-------|------|-----------|-------|---------|
|                    |        | D      | b    | d2          | f   | No.   | d1   |           |       |         |
| <b>BS4504</b>      | 6/3    | 375,0  | 24,0 | 312,0       | 3,0 | 12    | 18,0 | M16       | 335,0 | 9,03    |
|                    | 10/3   | 395,0  | 26,0 | 320,0       | 3,0 | 12    | 22,0 | M20       | 350,0 | 11,95   |
|                    | 16/3   | 405,0  | 26,0 | 320,0       | 3,0 | 12    | 26,0 | M24       | 355,0 | 12,86   |
|                    | 25/3   | 425,0  | 32,0 | 335,0       | 3,0 | 12    | 30,0 | M27       | 370,0 | 18,57   |
|                    | 40/3   | 450,0  | 42,0 | 345,0       | 3,0 | 12    | 33,0 | M30       | 384,0 | 29,44   |
| <b>BS EN1092</b>   | 6/3    | 375,0  | 24,0 | 312,0       | 3,0 | 12    | 18,0 | M16       | 335,0 | 9,03    |
|                    | 10/3   | 395,0  | 26,0 | 320,0       | 3,0 | 12    | 22,0 | M20       | 350,0 | 11,95   |
|                    | 16/3   | 405,0  | 29,0 | 320,0       | 3,0 | 12    | 26,0 | M24       | 355,0 | 14,79   |
|                    | 25/3   | 425,0  | 35,0 | 335,0       | 3,0 | 12    | 30,0 | M27       | 370,0 | 20,43   |
|                    | 40/3   | 450,0  | 42,0 | 345,0       | 3,0 | 12    | 33,0 | M30       | 384,0 | 29,44   |
| <b>SANS1123</b>    | 600/3  | 375,0  | 16,0 | 312,0       | 3,0 | 12    | 18,0 | M16       | 335,0 | 6,02    |
|                    | 1000/3 | 395,0  | 20,0 | 320,0       | 3,0 | 12    | 22,0 | M20       | 350,0 | 9,14    |
|                    | 1600/3 | 405,0  | 25,0 | 320,0       | 3,0 | 12    | 26,0 | M24       | 355,0 | 12,36   |
|                    | 2500/3 | 425,0  | 30,0 | 335,0       | 3,0 | 12    | 26,0 | M24       | 370,0 | 17,90   |
|                    | 4000/3 | 450,0  | 38,0 | 345,0       | 3,0 | 12    | 33,0 | M30       | 385,0 | 29,44   |
| <b>BS 10</b>       | T/D    | 406,4  | 15,9 | -           | -   | 8     | 22,2 | M20       | 355,6 | 8,70    |
|                    | T/E    | 406,4  | 22,2 | -           | -   | 12    | 22,2 | M20       | 355,6 | 12,05   |
| <b>ANSI B 16,5</b> | 150lb  | 406,4  | 30,2 | 323,8       | 1,6 | 12    | 25,4 | M24       | 361,9 | 17,24   |
|                    | 300lb  | 444,5  | 47,6 | 323,8       | 1,6 | 16    | 31,7 | M30       | 387,3 | 35,38   |

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## 300 mm Nominal Bore Pipe OD 323,9

| Table              |        | Flange |      | Raised Face |     | Holes |      | Bolt size | PCD   | Mass kg |
|--------------------|--------|--------|------|-------------|-----|-------|------|-----------|-------|---------|
|                    |        | D      | b    | d2          | f   | No.   | d1   |           |       |         |
| <b>BS4504</b>      | 6/3    | 440,0  | 24,0 | 365,0       | 4,0 | 12    | 22,0 | M20       | 395,0 | 11,95   |
|                    | 10/3   | 445,0  | 26,0 | 370,0       | 4,0 | 12    | 22,0 | M20       | 400,0 | 13,66   |
|                    | 16/3   | 460,0  | 28,0 | 378,0       | 4,0 | 12    | 26,0 | M24       | 410,0 | 16,65   |
|                    | 25/3   | 485,0  | 38,0 | 395,0       | 4,0 | 16    | 30,0 | M27       | 430,0 | 26,66   |
|                    | 40/3   | 515,0  | 50,0 | 410,0       | 4,0 | 16    | 33,0 | M30       | 450,0 | 43,39   |
| <b>BS EN1092</b>   | 6/3    | 440,0  | 24,0 | 365,0       | 4,0 | 12    | 22,0 | M20       | 395,0 | 11,95   |
|                    | 10/3   | 445,0  | 26,0 | 370,0       | 4,0 | 12    | 22,0 | M20       | 400,0 | 13,66   |
|                    | 16/3   | 460,0  | 32,0 | 378,0       | 4,0 | 12    | 26,0 | M24       | 410,0 | 19,2    |
|                    | 25/3   | 485,0  | 38,0 | 395,0       | 4,0 | 16    | 30,0 | M27       | 430,0 | 26,66   |
|                    | 40/3   | 515,0  | 52,0 | 410,0       | 4,0 | 16    | 33,0 | M30       | 450,0 | 45,56   |
| <b>SANS1123</b>    | 600/3  | 440,0  | 20,0 | 365,0       | 4,0 | 12    | 22,0 | M20       | 395,0 | 9,96    |
|                    | 1000/3 | 445,0  | 22,0 | 370,0       | 4,0 | 12    | 22,0 | M20       | 400,0 | 11,65   |
|                    | 1600/3 | 460,0  | 28,0 | 378,0       | 4,0 | 12    | 26,0 | M24       | 410,0 | 16,65   |
|                    | 2500/3 | 485,0  | 32,0 | 395,0       | 4,0 | 16    | 26,0 | M24       | 430,0 | 23,16   |
|                    | 4000/3 | 515,0  | 40,0 | 410,0       | 4,0 | 16    | 33,0 | M30       | 450,0 | 43,39   |
| <b>BS 10</b>       | T/D    | 457,2  | 19,0 | -           | -   | 12    | 22,2 | M20       | 406,4 | 12,05   |
|                    | T/E    | 457,2  | 25,4 | -           | -   | 12    | 25,4 | M24       | 406,4 | 16,07   |
| <b>ANSI B 16,5</b> | 150lb  | 482,6  | 31,7 | 381,0       | 1,6 | 12    | 25,4 | M20       | 431,8 | 27,22   |
|                    | 300lb  | 520,7  | 50,8 | 381,0       | 1,6 | 16    | 31,7 | M30       | 450,8 | 50,8    |

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# 350 mm Nominal Bore Pipe OD 355,6

| Table              |        | Flange |      | Raised Face |     | Holes |      | Bolt size | PCD   | Mass kg |
|--------------------|--------|--------|------|-------------|-----|-------|------|-----------|-------|---------|
|                    |        | D      | b    | d2          | f   | No.   | d1   |           |       |         |
| <b>BS4504</b>      | 6/3    | 490,0  | 26,0 | 415,0       | 4,0 | 12    | 22,0 | M20       | 445,0 | 16,88   |
|                    | 10/3   | 505,0  | 28,0 | 430,0       | 4,0 | 16    | 22,0 | M20       | 460,0 | 20,42   |
|                    | 16/3   | 520,0  | 32,0 | 438,0       | 4,0 | 16    | 26,0 | M24       | 470,0 | 25,76   |
|                    | 25/3   | 555,0  | 42,0 | 450,0       | 4,0 | 16    | 33,0 | M30       | 490,0 | 41,84   |
|                    | 40/3   | 580,0  | 56,0 | 465,0       | 4,0 | 16    | 36,0 | M33       | 510,0 | 64,43   |
| <b>BS EN1092</b>   | 6/3    | 490,0  | 26,0 | 415,0       | 4,0 | 12    | 22,0 | M20       | 445,0 | 16,88   |
|                    | 10/3   | 505,0  | 30,0 | 430,0       | 4,0 | 16    | 22,0 | M20       | 460,0 | 23,48   |
|                    | 16/3   | 520,0  | 35,0 | 438,0       | 4,0 | 16    | 26,0 | M24       | 470,0 | 28,34   |
|                    | 25/3   | 555,0  | 42,0 | 450,0       | 4,0 | 16    | 33,0 | M30       | 490,0 | 41,84   |
|                    | 40/3   | 580,0  | 58,0 | 465,0       | 4,0 | 16    | 36,0 | M33       | 510,0 | 67,65   |
| <b>SANS1123</b>    | 600/3  | 490,0  | 22,0 | 415,0       | 4,0 | 12    | 22,0 | M20       | 445,0 | 14,29   |
|                    | 1000/3 | 505,0  | 25,0 | 430,0       | 4,0 | 16    | 22,0 | M20       | 460,0 | 18,23   |
|                    | 1600/3 | 520,0  | 30,0 | 438,0       | 4,0 | 16    | 26,0 | M24       | 470,0 | 24,15   |
|                    | 2500/3 | 555,0  | 35,0 | 450,0       | 4,0 | 16    | 33,0 | M30       | 490,0 | 34,87   |
|                    | 4000/3 | 580,0  | 45,0 | 465,0       | 4,0 | 16    | 33,0 | M30       | 510,0 | 56,50   |
| <b>BS 10</b>       | T/D    | 527,1  | 22,2 | -           | -   | 12    | 25,4 | M20       | 469,9 | 19,58   |
|                    | T/E    | 527,1  | 28,6 | -           | -   | 12    | 25,4 | M24       | 469,9 | 25,89   |
| <b>ANSI B 16,5</b> | 150lb  | 533,4  | 34,9 | 412,8       | 1,6 | 12    | 28,6 | M24       | 476,2 | 35,71   |
|                    | 300lb  | 584,2  | 54,0 | 412,8       | 1,6 | 20    | 31,7 | M30       | 514,0 | 75,0    |

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# 400 mm Nominal Bore Pipe OD 406,4

| Table              |        | Flange |      | Raised Face |     | Holes |      | Bolt size | PCD   | Mass kg |
|--------------------|--------|--------|------|-------------|-----|-------|------|-----------|-------|---------|
|                    |        | D      | b    | d2          | f   | No.   | d1   |           |       |         |
| <b>BS4504</b>      | 6/3    | 540,0  | 28,0 | 465,0       | 4,0 | 16    | 22,0 | M20       | 495,0 | 19,97   |
|                    | 10/3   | 565,0  | 32,0 | 482,0       | 4,0 | 16    | 26,0 | M24       | 515,0 | 27,65   |
|                    | 16/3   | 580,0  | 36,0 | 490,0       | 4,0 | 16    | 30,0 | M27       | 525,0 | 33,90   |
|                    | 25/3   | 620,0  | 46,0 | 505,0       | 4,0 | 16    | 36,0 | M33       | 550,0 | 56,35   |
|                    | 40/3   | 660,0  | 64,0 | 535,0       | 4,0 | 16    | 39,0 | M36       | 585,0 | 95,86   |
| <b>BS EN1092</b>   | 6/3    | 540,0  | 28,0 | 465,0       | 4,0 | 16    | 22,0 | M20       | 495,0 | 19,97   |
|                    | 10/3   | 565,0  | 32,0 | 482,0       | 4,0 | 16    | 26,0 | M24       | 515,0 | 27,65   |
|                    | 16/3   | 580,0  | 38,0 | 490,0       | 4,0 | 16    | 30,0 | M27       | 525,0 | 36,40   |
|                    | 25/3   | 620,0  | 48,0 | 505,0       | 4,0 | 16    | 36,0 | M33       | 550,0 | 58,60   |
|                    | 40/3   | 660,0  | 65,0 | 535,0       | 4,0 | 16    | 39,0 | M36       | 585,0 | 98,00   |
| <b>SANS1123</b>    | 600/3  | 540,0  | 22,0 | 465,0       | 4,0 | 16    | 22,0 | M20       | 495,0 | 15,69   |
|                    | 1000/3 | 565,0  | 25,0 | 482,0       | 4,0 | 16    | 26,0 | M24       | 515,0 | 21,88   |
|                    | 1600/3 | 580,0  | 35,0 | 490,0       | 4,0 | 16    | 26,0 | M24       | 525,0 | 34,13   |
|                    | 2500/3 | 620,0  | 40,0 | 505,0       | 4,0 | 16    | 33,0 | M30       | 550,0 | 49,00   |
|                    | 4000/3 | 660,0  | 50,0 | 535,0       | 4,0 | 16    | 39,0 | M36       | 585,0 | 74,58   |
| <b>BS 10</b>       | T/D    | 577,9  | 22,2 | -           | -   | 12    | 25,4 | M20       | 520,7 | 22,32   |
|                    | T/E    | 577,9  | 31,8 | -           | -   | 12    | 25,4 | M24       | 520,7 | 32,59   |
| <b>ANSI B 16,5</b> | 150lb  | 596,9  | 36,5 | 470,0       | 1,6 | 16    | 28,6 | M24       | 539,7 | 45,09   |
|                    | 300lb  | 647,7  | 57,1 | 470,0       | 1,6 | 20    | 34,9 | M30       | 571,5 | 101,6   |

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# 450 mm Nominal Bore Pipe OD 457,2

| Table              |        | Flange |      | Raised Face |     | Holes |      | Bolt | PCD    | Mass   |
|--------------------|--------|--------|------|-------------|-----|-------|------|------|--------|--------|
|                    |        | D      | b    | d2          | f   | No.   | d1   | size |        | kg     |
| <b>BS4504</b>      | 6/3    | 595,0  | 30,0 | 520,0       | 4,0 | 16    | 22,0 | M20  | 550,0  | 25,28  |
|                    | 10/3   | 615,0  | 36,0 | 532,0       | 4,0 | 20    | 26,0 | M24  | 565,0  | 34,16  |
|                    | 16/3   | 640,0  | 40,0 | 550,0       | 4,0 | 20    | 30,0 | M27  | 585,0  | 44,56  |
|                    | 25/3   | 670,0  | 52,0 | 555,0       | 4,0 | 20    | 36,0 | M33  | 600,0  | 68,00  |
|                    | 40/3   | 685,0  | 68,0 | 560,0       | 4,0 | 20    | 39,0 | M36  | 610,0  | 95,55  |
| <b>BS EN1092</b>   | 6/3    | 595,0  | 30,0 | 520,0       | 4,0 | 16    | 22,0 | M20  | 550,0  | 25,28  |
|                    | 10/3   | 615,0  | 36,0 | 532,0       | 4,0 | 20    | 26,0 | M24  | 565,0  | 34,16  |
|                    | 16/3   | 640,0  | 42,0 | 550,0       | 4,0 | 20    | 30,0 | M27  | 585,0  | 46,80  |
|                    | 25/3   | 670,0  | 54,0 | 555,0       | 4,0 | 20    | 36,0 | M33  | 600,0  | 70,80  |
|                    | 40/3   | 685,0  | 68,0 | 560,0       | 4,0 | 20    | 39,0 | M36  | 610,0  | 95,55  |
| <b>SANS1123</b>    | 600/3  | 595,0  | 25,0 | 520,0       | 4,0 | 16    | 22,0 | M20  | 550,0  | 21,07  |
|                    | 1000/3 | 615,0  | 30,0 | 532,0       | 4,0 | 20    | 26,0 | M24  | 565,0  | 28,29  |
|                    | 1600/3 | 640,0  | 40,0 | 550,0       | 4,0 | 20    | 26,0 | M24  | 585,0  | 45,68  |
|                    | 2500/3 | 670,0  | 45,0 | 555,0       | 4,0 | 20    | 33,0 | M30  | 600,0  | 60,00  |
|                    | 4000/3 | 685,0  | 60,0 | 560,0       | 4,0 | 20    | 39,0 | M36  | 610,0  | 85,00  |
| <b>BS 10</b>       | T/D    | 641,4  | 25,4 | -           | -   | 12    | 25,4 | M20  | 584,2  | 30,80  |
|                    | T/E    | 641,4  | 34,9 | -           | -   | 16    | 25,4 | M20  | 584,2  | 42,86  |
| <b>ANSI B 16,5</b> | 150lb  | 635,0  | 39,7 | 533,4       | 1,6 | 16    | 31,7 | M30  | 577,8  | 52,62  |
|                    | 300lb  | 711,2  | 60,3 | 533,4       | 1,6 | 24    | 34,9 | M30  | 628,65 | 126,10 |

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# 500 mm Nominal Bore Pipe OD 508

| Table              |        | Flange |      | Raised Face |     | Holes |      | Bolt | PCD   | Mass   |
|--------------------|--------|--------|------|-------------|-----|-------|------|------|-------|--------|
|                    |        | D      | b    | d2          | f   | No.   | d1   | size |       | kg     |
| <b>BS4504</b>      | 6/3    | 645,0  | 30,0 | 570,0       | 4,0 | 20    | 22,0 | M20  | 600,0 | 27,03  |
|                    | 10/3   | 670,0  | 38,0 | 585,0       | 4,0 | 20    | 26,0 | M24  | 620,0 | 41,03  |
|                    | 16/3   | 715,0  | 44,0 | 610,0       | 4,0 | 20    | 33,0 | M30  | 650,0 | 62,16  |
|                    | 25/3   | 730,0  | 58,0 | 615,0       | 4,0 | 20    | 36,0 | M33  | 660,0 | 88,20  |
|                    | 40/3   | 755,0  | 72,0 | 615,0       | 4,0 | 20    | 42,0 | M39  | 670,0 | 121,81 |
| <b>BS EN1092</b>   | 6/3    | 645,0  | 30,0 | 570,0       | 4,0 | 20    | 22,0 | M20  | 600,0 | 27,03  |
|                    | 10/3   | 670,0  | 38,0 | 585,0       | 4,0 | 20    | 26,0 | M24  | 620,0 | 41,03  |
|                    | 16/3   | 715,0  | 46,0 | 610,0       | 4,0 | 20    | 33,0 | M30  | 650,0 | 65,30  |
|                    | 25/3   | 730,0  | 58,0 | 615,0       | 4,0 | 20    | 36,0 | M33  | 660,0 | 88,20  |
|                    | 40/3   | 755,0  | 72,0 | 615,0       | 4,0 | 20    | 42,0 | M39  | 670,0 | 121,80 |
| <b>SANS1123</b>    | 600/3  | 645,0  | 25,0 | 570,0       | 4,0 | 20    | 22,0 | M20  | 600,0 | 22,52  |
|                    | 1000/3 | 670,0  | 32,0 | 585,0       | 4,0 | 20    | 26,0 | M24  | 620,0 | 34,65  |
|                    | 1600/3 | 715,0  | 40,0 | 610,0       | 4,0 | 20    | 33,0 | M30  | 650,0 | 56,51  |
|                    | 2500/3 | 730,0  | 50,0 | 615,0       | 4,0 | 20    | 33,0 | M30  | 660,0 | 77,31  |
|                    | 4000/3 | 755,0  | 70,0 | 615,0       | 4,0 | 20    | 39,0 | M36  | 670,0 | 121,50 |
| <b>BS 10</b>       | T/D    | 704,0  | 28,6 | -           | -   | 16    | 25,4 | M20  | 641,4 | 41,07  |
|                    | T/E    | 704,9  | 38,1 | -           | -   | 16    | 25,4 | M20  | 641,1 | 55,80  |
| <b>ANSI B 16,5</b> | 150lb  | 698,5  | 42,9 | 584,2       | 1,6 | 20    | 31,7 | M30  | 635,0 | 65,32  |
|                    | 300lb  | 774,7  | 63,5 | 584,2       | 1,6 | 24    | 34,9 | M30  | 685,8 | 150,0  |

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# 600 mm Nominal Bore Pipe OD 609,6

| Table              |        | Flange |      | Raised Face |     | Holes |      | Bolt size | PCD   | Mass kg |
|--------------------|--------|--------|------|-------------|-----|-------|------|-----------|-------|---------|
|                    |        | D      | b    | d2          | f   | No.   | d1   |           |       |         |
| <b>BS4504</b>      | 6/3    | 755,0  | 32,0 | 670,0       | 5,0 | 20    | 26,0 | M24       | 705,0 | 35,87   |
|                    | 10/3   | 780,0  | 42,0 | 685,0       | 5,0 | 20    | 30,0 | M27       | 725,0 | 55,85   |
|                    | 16/3   | 840,0  | 52,0 | 725,0       | 5,0 | 20    | 36,0 | M33       | 770,0 | 97,74   |
|                    | 25/3   | 845,0  | 66,0 | 720,0       | 5,0 | 20    | 39,0 | M36       | 770,0 | 125,65  |
|                    | 40/3   | 890,0  | 84,0 | 735,0       | 5,0 | 20    | 48,0 | M45       | 795,0 | 192,21  |
| <b>BS EN1092</b>   | 6/3    | 755,0  | 32,0 | 670,0       | 5,0 | 20    | 26,0 | M24       | 705,0 | 35,87   |
|                    | 10/3   | 780,0  | 42,0 | 685,0       | 5,0 | 20    | 30,0 | M27       | 725,0 | 55,85   |
|                    | 16/3   | 840,0  | 55,0 | 725,0       | 5,0 | 20    | 36,0 | M33       | 770,0 | 104,00  |
|                    | 25/3   | 845,0  | 68,0 | 720,0       | 5,0 | 20    | 39,0 | M36       | 770,0 | 129,50  |
|                    | 40/3   | 890,0  | 90,0 | 735,0       | 5,0 | 20    | 48,0 | M45       | 795,0 | 207,00  |
| <b>SANS1123</b>    | 600/3  | 755,0  | 30,0 | 670,0       | 5,0 | 20    | 26,0 | M24       | 705,0 | 33,63   |
|                    | 1000/3 | 780,0  | 38,0 | 685,0       | 5,0 | 20    | 26,0 | M24       | 725,0 | 51,58   |
|                    | 1600/3 | 840,0  | 50,0 | 725,0       | 5,0 | 20    | 33,0 | M30       | 770,0 | 95,26   |
|                    | 2500/3 | 845,0  | 60,0 | 720,0       | 5,0 | 20    | 39,0 | M36       | 770,0 | 114,86  |
|                    | 4000/3 | 890,0  | 84,0 | 735,0       | 5,0 | 20    | 48,0 | M45       | 795,0 | 192,21  |
| <b>BS 10</b>       | T/D    | 825,5  | 31,8 | -           | -   | 16    | 28,6 | M24       | 755,7 | 60,27   |
|                    | T/E    | 825,5  | 47,6 | -           | -   | 16    | 31,8 | M30       | 755,7 | 89,29   |
| <b>ANSI B 16,5</b> | 150lb  | 812,8  | 47,6 | 692,1       | 1,6 | 20    | 34,9 | M30       | 749,3 | 91,63   |
|                    | 300lb  | 914,4  | 69,8 | 692,1       | 1,6 | 24    | 38,1 | M36       | 812,8 | 222,26  |

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# 700 mm Nominal Bore Pipe OD 711,2

| Table              |        | Flange |      | Raised Face |     | Holes |      | Bolt size | PCD   | Mass kg |
|--------------------|--------|--------|------|-------------|-----|-------|------|-----------|-------|---------|
|                    |        | D      | b    | d2          | f   | No.   | d1   |           |       |         |
| <b>BS4504</b>      | 6/3    | 860,0  | 34,0 | 775,0       | 5,0 | 24    | 26,0 | M24       | 810,0 | 44,73   |
|                    | 10/3   | 895,0  | 46,0 | 800,0       | 5,0 | 24    | 30,0 | M27       | 840,0 | 76,40   |
|                    | 16/3   | 910,0  | 58,0 | 795,0       | 5,0 | 24    | 36,0 | M33       | 840,0 | 102,61  |
|                    | 25/3   | 960,0  | 74,0 | 820,0       | 5,0 | 24    | 42,0 | M39       | 875,0 | 168,41  |
|                    | 40/3   | 995,0  | 96,0 | 840,0       | 5,0 | 24    | 48,0 | M45       | 900,0 | 251,28  |
| <b>BS EN1092</b>   | 6/3    | 860,0  | 40,0 | 775,0       | 5,0 | 24    | 26,0 | M24       | 810,0 | 53,10   |
|                    | 10/3   | 895,0  | 50,0 | 800,0       | 5,0 | 24    | 30,0 | M27       | 840,0 | 84,00   |
|                    | 16/3   | 910,0  | 63,0 | 795,0       | 5,0 | 24    | 36,0 | M33       | 840,0 | 113,00  |
|                    | 25/3   | 960,0  | 85,0 | 820,0       | 5,0 | 24    | 42,0 | M39       | 875,0 | 195,00  |
|                    | 40/3   | 995,0  | 96,0 | 840,0       | 5,0 | 24    | 48,0 | M45       | 900,0 | 251,28  |
| <b>SANS1123</b>    | 600/3  | 860,0  | 35,0 | 775,0       | 5,0 | 24    | 26,0 | M24       | 810,0 | 46,05   |
|                    | 1000/3 | 895,0  | 45,0 | 800,0       | 5,0 | 24    | 26,0 | M24       | 840,0 | 76,23   |
|                    | 1600/3 | 910,0  | 55,0 | 795,0       | 5,0 | 24    | 33,0 | M30       | 840,0 | 98,50   |
|                    | 2500/3 | 960,0  | 74,0 | 820,0       | 5,0 | 24    | 42,0 | M39       | 875,0 | 164,40  |
|                    | 4000/3 | 995,0  | 96,0 | 840,0       | 5,0 | 24    | 48,0 | M45       | 900,0 | 253,87  |
| <b>BS 10</b>       | T/D    | 908,1  | 34,9 | -           | -   | 20    | 28,6 | M24       | 844,6 | 64,17   |
|                    | T/E    | 908,1  | 50,8 | -           | -   | 20    | 31,8 | M30       | 844,6 | 92,19   |
| <b>ANSI B 16,5</b> | 150lb  | -      | -    | -           | -   | -     | -    | -         | -     | -       |
|                    | 300lb  | -      | -    | -           | -   | -     | -    | -         | -     | -       |

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# 800 mm Nominal Bore Pipe OD 812,8

| Table              |        | Flange |       | Raised Face |     | Holes |      | Bolt | PCD    | Mass   |
|--------------------|--------|--------|-------|-------------|-----|-------|------|------|--------|--------|
|                    |        | D      | b     | d2          | f   | No.   | d1   | size |        | kg     |
| <b>BS4504</b>      | 6/3    | 975,0  | 38,0  | 880,0       | 5,0 | 24    | 30,0 | M27  | 920,0  | 61,98  |
|                    | 10/3   | 1015,0 | 52,0  | 905,0       | 5,0 | 24    | 33,0 | M30  | 950,0  | 108,86 |
|                    | 16/3   | 1025,0 | 64,0  | 900,0       | 5,0 | 24    | 39,0 | M36  | 950,0  | 137,94 |
|                    | 25/3   | 1085,0 | 82,0  | 930,0       | 5,0 | 24    | 48,0 | M45  | 990,0  | 231,19 |
|                    | 40/3   | 1140,0 | 108,0 | 960,0       | 5,0 | 24    | 56,0 | M52  | 1030,0 | 372,62 |
| <b>BS EN1092</b>   | 6/3    | 975,0  | 44,0  | 880,0       | 5,0 | 24    | 30,0 | M27  | 920,0  | 72,00  |
|                    | 10/3   | 1015,0 | 56,0  | 905,0       | 5,0 | 24    | 33,0 | M30  | 950,0  | 118,00 |
|                    | 16/3   | 1025,0 | 74,0  | 900,0       | 5,0 | 24    | 39,0 | M36  | 950,0  | 161,00 |
|                    | 25/3   | 1085,0 | 95,0  | 930,0       | 5,0 | 24    | 48,0 | M45  | 990,0  | 270,00 |
|                    | 40/3   | 1140,0 | 108,0 | 960,0       | 5,0 | 24    | 56,0 | M52  | 1030,0 | 372,62 |
| <b>SANS1123</b>    | 600/3  | 975,0  | 38,0  | 880,0       | 5,0 | 24    | 26,0 | M24  | 920,0  | 63,24  |
|                    | 1000/3 | 1015,0 | 50,0  | 905,0       | 5,0 | 24    | 33,0 | M30  | 950,0  | 104,68 |
|                    | 1600/3 | 1025,0 | 65,0  | 900,0       | 5,0 | 24    | 39,0 | M36  | 950,0  | 140,10 |
|                    | 2500/3 | 1085,0 | 82,0  | 928,0       | 5,0 | 24    | 48,0 | M45  | 990,0  | 224,07 |
|                    | 4000/3 | 1140,0 | 108,0 | 960,0       | 5,0 | 24    | 56,0 | M52  | 1030,0 | 375,34 |
| <b>BS 10</b>       | T/D    | -      | -     | -           | -   | -     | -    | -    | -      | -      |
|                    | T/E    | -      | -     | -           | -   | -     | -    | -    | -      | -      |
| <b>ANSI B 16,5</b> | 150lb  | -      | -     | -           | -   | -     | -    | -    | -      | -      |
|                    | 300lb  | -      | -     | -           | -   | -     | -    | -    | -      | -      |

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# 900 mm Nominal Bore Pipe OD 914,4

| Table              |        | Flange |       | Raised Face |     | Holes |      | Bolt | PCD    | Mass   |
|--------------------|--------|--------|-------|-------------|-----|-------|------|------|--------|--------|
|                    |        | D      | b     | d2          | f   | No.   | d1   | size |        | kg     |
| <b>BS4504</b>      | 6/3    | 1075,0 | 42,0  | 980,0       | 5,0 | 24    | 30,0 | M27  | 1020,0 | 76,31  |
|                    | 10/3   | 1115,0 | 56,0  | 1005,0      | 5,0 | 28    | 33,0 | M30  | 1050,0 | 128,90 |
|                    | 16/3   | 1125,0 | 72,0  | 1000,0      | 5,0 | 28    | 39,0 | M36  | 1050,0 | 170,30 |
|                    | 25/3   | 1185,0 | 90,0  | 1030,0      | 5,0 | 28    | 48,0 | M45  | 1090,0 | 277,56 |
|                    | 40/3   | 1250,0 | 120,0 | 1070,0      | 5,0 | 28    | 56,0 | M52  | 1140,0 | 469,85 |
| <b>BS EN1092</b>   | 6/3    | 1075,0 | 48,0  | 980,0       | 5,0 | 24    | 30,0 | M27  | 1020,0 | 32,14  |
|                    | 10/3   | 1115,0 | 62,0  | 1005,0      | 5,0 | 28    | 33,0 | M30  | 1050,0 | 136,77 |
|                    | 16/3   | 1125,0 | 82,0  | 1000,0      | 5,0 | 28    | 39,0 | M36  | 1050,0 | 187,42 |
|                    | 25/3   | 1185,0 | 90,0  | 1030,0      | 5,0 | 28    | 48,0 | M45  | 1090,0 | 268,55 |
|                    | 40/3   | 1250,0 | 120,0 | 1070,0      | 5,0 | 28    | 56,0 | M52  | 1140,0 | 469,85 |
| <b>SANS1123</b>    | 600/3  | 1075,0 | 40,0  | 980,0       | 5,0 | 24    | 26,0 | M24  | 1020,0 | 74,00  |
|                    | 1000/3 | 1115,0 | 55,0  | 1005,0      | 5,0 | 28    | 33,0 | M30  | 1050,0 | 125,98 |
|                    | 1600/3 | 1125,0 | 70,0  | 1000,0      | 5,0 | 28    | 39,0 | M36  | 1050,0 | 164,78 |
|                    | 2500/3 | 1185,0 | 90,0  | 1028,0      | 5,0 | 28    | 48,0 | M45  | 1090,0 | 268,54 |
|                    | 4000/3 | 1250,0 | 120,0 | 1070,0      | 5,0 | 28    | 56,0 | M52  | 1140,0 | 451,53 |
| <b>BS 10</b>       | T/D    | 1174,7 | 47,6  | -           | -   | 24    | 35,0 | M30  | 1092,2 | 156,25 |
|                    | T/E    | 1174,7 | 63,5  | -           | -   | 24    | 35,0 | M30  | 1092,2 | 203,13 |
| <b>ANSI B 16,5</b> | 150lb  | -      | -     | -           | -   | -     | -    | -    | -      | -      |
|                    | 300lb  | -      | -     | -           | -   | -     | -    | -    | -      | -      |

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**1000****mm Nominal Bore Pipe OD 1016**

| Table              |        | Flange |       | Raised Face |     | Holes |      | Bolt size | PCD    | Mass kg |
|--------------------|--------|--------|-------|-------------|-----|-------|------|-----------|--------|---------|
|                    |        | D      | b     | d2          | f   | No.   | d1   |           |        |         |
| <b>BS4504</b>      | 6/3    | 1175,0 | 46,0  | 1080,0      | 5,0 | 28    | 30,0 | M27       | 1120,0 | 89,84   |
|                    | 10/3   | 1230,0 | 62,0  | 1110,0      | 5,0 | 28    | 36,0 | M33       | 1160,0 | 167,37  |
|                    | 16/3   | 1255,0 | 78,0  | 1115,0      | 5,0 | 28    | 42,0 | M39       | 1170,0 | 234,12  |
|                    | 25/3   | 1320,0 | 98,0  | 1140,0      | 5,0 | 28    | 56,0 | M52       | 1210,0 | 372,00  |
|                    | 40/3   | 1360,0 | 132,0 | 1080,0      | 5,0 | 28    | 56,0 | M52       | 1250,0 | 588,22  |
| <b>BS EN1092</b>   | 6/3    | 1175,0 | 52,0  | 1080,0      | 5,0 | 28    | 30,0 | M27       | 1120,0 | 102,00  |
|                    | 10/3   | 1230,0 | 70,0  | 1110,0      | 5,0 | 28    | 36,0 | M33       | 1160,0 | 190,00  |
|                    | 16/3   | 1255,0 | 90,0  | 1115,0      | 5,0 | 28    | 42,0 | M39       | 1170,0 | 271,00  |
|                    | 25/3   | 1320,0 | 98,0  | 1140,0      | 5,0 | 28    | 56,0 | M52       | 1210,0 | 376,20  |
|                    | 40/3   | 1360,0 | 132,0 | 1080,0      | 5,0 | 28    | 56,0 | M52       | 1250,0 | 593,72  |
| <b>SANS1123</b>    | 600/3  | 1175,0 | 45,0  | 1080,0      | 5,0 | 28    | 26,0 | M24       | 1020,0 | 89,63   |
|                    | 1000/3 | 1230,0 | 60,0  | 1110,0      | 5,0 | 28    | 33,0 | M30       | 1160,0 | 164,87  |
|                    | 1600/3 | 1255,0 | 75,0  | 1115,0      | 5,0 | 28    | 39,0 | M36       | 1170,0 | 228,26  |
|                    | 2500/3 | 1320,0 | 98,0  | 1140,0      | 5,0 | 28    | 56,0 | M52       | 1210,0 | 357,89  |
|                    | 4000/3 | 1360,0 | 132,0 | 1180,0      | 5,0 | 28    | 56,0 | M52       | 1250,0 | 569,30  |
| <b>BS 10</b>       | T/D    | 1257,3 | 50,8  | -           | -   | 24    | 35,0 | M30       | 1174,7 | 167,00  |
|                    | T/E    | 1257,3 | 60,7  | -           | -   | 24    | 38,1 | M36       | 1174,7 | 214,00  |
| <b>ANSI B 16,5</b> | 150lb  | -      | -     | -           | -   | -     | -    | -         | -      | -       |
|                    | 300lb  | -      | -     | -           | -   | -     | -    | -         | -      | -       |

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**1200****mm Nominal Bore Pipe OD 1220**

| Table              |        | Flange |       | Raised Face |     | Holes |      | Bolt size | PCD    | Mass kg |
|--------------------|--------|--------|-------|-------------|-----|-------|------|-----------|--------|---------|
|                    |        | D      | b     | d2          | f   | No.   | d1   |           |        |         |
| <b>BS4504</b>      | 6/3    | 1405,0 | 56,0  | 1295,0      | 5,0 | 32    | 33,0 | M30       | 1340,0 | 152,97  |
|                    | 10/3   | 1455,0 | 74,0  | 1330,0      | 5,0 | 32    | 39,0 | M36       | 1380,0 | 261,02  |
|                    | 16/3   | 1485,0 | 94,0  | 1390,0      | 5,0 | 32    | 48,0 | M45       | 1390,0 | 368,13  |
|                    | 25/3   | 1530,0 | 116,0 | 1350,0      | 5,0 | 32    | 56,0 | M52       | 1420,0 | 531,21  |
|                    | 40/3   | 1575,0 | 154,0 | 1380,0      | 5,0 | 32    | 62,0 | M56       | 1460,0 | 817,61  |
| <b>BS EN1092</b>   | 6/3    | 1405,0 | 60,0  | 1295,0      | 5,0 | 32    | 33,0 | M30       | 1340,0 | 164,00  |
|                    | 10/3   | 1455,0 | 83,0  | 1330,0      | 5,0 | 32    | 39,0 | M36       | 1380,0 | 294,00  |
|                    | 16/3   | 1485,0 | 94,0  | 1390,0      | 5,0 | 32    | 48,0 | M45       | 1390,0 | 368,13  |
|                    | 25/3   | 1530,0 | 116,0 | 1350,0      | 5,0 | 32    | 56,0 | M52       | 1420,0 | 531,21  |
|                    | 40/3   | 1575,0 | 154,0 | 1380,0      | 5,0 | 32    | 62,0 | M56       | 1460,0 | 817,61  |
| <b>SANS1123</b>    | 600/3  | 1405,0 | 55,0  | 1295,0      | 5,0 | 32    | 33,0 | M30       | 1340,0 | 150,24  |
|                    | 1000/3 | 1455,0 | 70,0  | 1328,0      | 5,0 | 32    | 39,0 | M36       | 1380,0 | 246,91  |
|                    | 1600/3 | 1485,0 | 85,0  | 1238,0      | 5,0 | 32    | 45,0 | M42       | 1390,0 | 337,56  |
|                    | 2500/3 | 1530,0 | 116,0 | 1350,0      | 5,0 | 32    | 56,0 | M52       | 1420,0 | 357,89  |
|                    | 4000/3 | 1575,0 | 154,0 | 1380,0      | 5,0 | 32    | 62,0 | M56       | 1460,0 | 813,69  |
| <b>BS 10</b>       | T/D    | 1492,2 | 60,3  | -           | -   | 32    | 35,0 | M30       | 1409,7 | 258,94  |
|                    | T/E    | 1492,2 | 79,4  | -           | -   | 32    | 38,1 | M36       | 1409,7 | 334,78  |
| <b>ANSI B 16,5</b> | 150lb  | -      | -     | -           | -   | -     | -    | -         | -      | -       |
|                    | 300lb  | -      | -     | -           | -   | -     | -    | -         | -      | -       |

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# Pipes

**SANS 719 Pipes Grade C - Weights and Test Pressures**  
**kPa / API 5L L290, API 5L X42**  
 (Based on stressing steel to 75% of specified yield stress of 290 MPa for Grade C)

| Nominal Bore | Outside Diameter - mm | Pipe Wall Thickness - mm |       |       |       |       |       |       |       |       |
|--------------|-----------------------|--------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
|              |                       | 4,5                      | 6,0   | 8,0   | 10,0  | 12,0  | 14,0  | 16,0  | 20,0  | 22,0  |
| <b>200</b>   | 219,1                 | 23,8                     | 31,5  | 41,6  | 51,6  | 61,3  | 70,8  | 80,1  | 98,2  | 106,9 |
| Gr C Test    |                       | 8934                     | 11912 | 15883 | 19854 | 23825 | 27796 | 31766 | 39708 | 43679 |
| <b>250</b>   | 273,0                 | 29,8                     | 39,5  | 52,3  | 64,9  | 77,2  | 89,4  | 101,4 | 124,8 | 136,2 |
| Gr C Test    |                       | 7170                     | 9560  | 12747 | 15934 | 19121 | 22308 | 25495 | 31868 | 35055 |
| <b>300</b>   | 323,9                 | 35,4                     | 47,0  | 62,3  | 77,4  | 92,3  | 107,0 | 121,5 | 149,9 | 163,8 |
| Gr C Test    |                       | 6044                     | 8058  | 10744 | 13430 | 16116 | 18802 | 21488 | 26860 | 29546 |
| <b>350</b>   | 355,6                 | 39,0                     | 51,7  | 68,6  | 85,2  | 101,7 | 117,9 | 134,0 | 165,5 | 181,0 |
| Gr C Test    |                       | 5505                     | 7340  | 9786  | 12233 | 14679 | 17126 | 19573 | 24466 | 26912 |
| <b>400</b>   | 406,4                 | 44,6                     | 59,2  | 78,6  | 97,8  | 116,7 | 135,5 | 154,0 | 190,6 | 208,6 |
| Gr C Test    |                       | 4817                     | 6422  | 8563  | 10704 | 12844 | 14985 | 17126 | 21407 | 23548 |
| <b>450</b>   | 457,2                 | 50,2                     | 66,8  | 88,6  | 110,3 | 131,8 | 153,0 | 174,1 | 215,6 | 236,1 |
| Gr C Test    |                       | 4281                     | 5709  | 7612  | 9514  | 11417 | 13320 | 15223 | 19029 | 20932 |
| <b>500</b>   | 508,0                 | 55,9                     | 74,3  | 98,6  | 122,8 | 146,8 | 170,6 | 194,1 | 240,7 | 263,7 |
| Gr C Test    |                       | 3853                     | 5138  | 6850  | 8563  | 10276 | 11988 | 13701 | 17126 | 18839 |
| <b>600</b>   | 609,6                 | 67,2                     | 89,3  | 118,7 | 147,9 | 176,9 | 205,6 | 234,2 | 290,8 | 318,8 |
| Gr C Test    |                       | 3211                     | 4281  | 5709  | 7136  | 8563  | 9990  | 11417 | 14272 | 15699 |
| <b>650</b>   | 660,4                 | 72,8                     | 96,8  | 128,7 | 160,4 | 191,9 | 223,2 | 254,3 | 315,9 | 346,4 |
| Gr C Test    |                       | 2964                     | 3952  | 5270  | 6587  | 7904  | 9222  | 10539 | 13174 | 14491 |

White = Pressure  
 Light Grey = Mass in kg

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# Pipes

**SANS 719 Pipes Grade C - Weights and Test Pressures**  
**kPa / API 5L L290, API 5L X42**  
 (Based on stressing steel to 75% of specified yield stress of 290 MPa for Grade C)

| Nominal Bore | Outside Diameter - mm | Pipe Wall Thickness - mm |       |       |       |       |       |       |       |       |
|--------------|-----------------------|--------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
|              |                       | 4,5                      | 6,0   | 8,0   | 10,0  | 12,0  | 14,0  | 16,0  | 20,0  | 22,0  |
| <b>700</b>   | 711,2                 | 78,4                     | 104,3 | 138,7 | 172,9 | 206,9 | 240,7 | 274,3 | 340,9 | 373,9 |
| Gr C Test    |                       | 2752                     | 3670  | 4893  | 6116  | 7340  | 8563  | 9786  | 12233 | 13456 |
| <b>750</b>   | 762,0                 | 84,1                     | 111,9 | 148,8 | 185,5 | 222,0 | 258,3 | 294,4 | 366,0 | 401,5 |
| Gr C Test    |                       | 2569                     | 3425  | 4567  | 5709  | 6850  | 7992  | 9134  | 11417 | 12559 |
| <b>800</b>   | 812,8                 | 89,7                     | 119,4 | 158,8 | 198,0 | 237,0 | 275,8 | 314,4 | 391,0 | 429,1 |
| Gr C Test    |                       | 2408                     | 3211  | 4281  | 5352  | 6422  | 7493  | 8563  | 10704 | 11774 |
| <b>850</b>   | 863,6                 | 95,3                     | 126,9 | 168,8 | 210,5 | 252,0 | 293,3 | 334,4 | 416,1 | 456,6 |
| Gr C Test    |                       | 2267                     | 3022  | 4030  | 5037  | 6044  | 7052  | 8059  | 10074 | 11082 |
| <b>900</b>   | 914,4                 | 101,0                    | 134,4 | 178,8 | 223,0 | 267,1 | 310,9 | 354,5 | 441,1 | 484,2 |
| Gr C Test    |                       | 2141                     | 2854  | 3806  | 4757  | 5709  | 6660  | 7612  | 9514  | 10466 |
| <b>950</b>   | 965,2                 | 106,6                    | 141,9 | 188,8 | 235,6 | 282,1 | 328,4 | 374,5 | 466,2 | 511,7 |
| Gr C Test    |                       | 2028                     | 2704  | 3605  | 4507  | 5408  | 6310  | 7211  | 9014  | 9915  |
| <b>1000</b>  | 1016,0                | 112,3                    | 149,4 | 198,9 | 248,1 | 297,1 | 346,0 | 394,6 | 491,3 | 539,3 |
| Gr C Test    |                       | 1927                     | 2569  | 3425  | 4281  | 5138  | 5994  | 6850  | 8563  | 9419  |
| <b>1050</b>  | 1066,8                | 117,9                    | 157,0 | 208,9 | 260,6 | 312,2 | 363,5 | 414,6 | 516,3 | 566,9 |
| Gr C Test    |                       | 1835                     | 2447  | 3262  | 4078  | 4893  | 5709  | 6524  | 8155  | 8971  |
| <b>1075</b>  | 1092,2                | 120,7                    | 160,7 | 213,9 | 266,9 | 319,7 | 372,3 | 424,7 | 528,8 | 580,6 |
| Gr C Test    |                       | 1792                     | 2390  | 3186  | 3983  | 4779  | 5576  | 6372  | 7966  | 8762  |

White = Pressure  
 Light Grey = Mass in kg

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**SANS 719 Pipes Grade C - Weights and Test Pressures**  
**kPa / API 5L L290, API 5L X42**  
 (Based on stressing steel to 75% of specified yield stress of 290 MPa for Grade C)

White = Pressure  
Light Grey = Mass in kg

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**SANS 719 Pipes Grade C - Weights and Test Pressures**  
**kPa / API 5L L290, API 5L X42**  
 (Based on stressing steel to 75% of specified yield stress of 290 MPa for Grade C)

White = Pressure  
Light Grey = Mass in kg

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# Pipes

ASTM A106 Seamless / API 5L B, API 5L X42 Welded

| Nominal Bore | Outside Diameter - mm | Wall Thickness - mm | Internal Diameter - mm | Mass (approx.) kg/m | Schedule Number |
|--------------|-----------------------|---------------------|------------------------|---------------------|-----------------|
| 6            | 10,3                  | 1,73                | 6,84                   | 0,36                | (STD) 40        |
|              |                       | 2,41                | 5,48                   | 0,46                | (XS) 80         |
| 8            | 13,7                  | 2,24                | 9,22                   | 0,63                | (STD) 40        |
|              |                       | 3,02                | 7,66                   | 0,80                | (XS) 80         |
| 10           | 17,1                  | 2,31                | 12,48                  | 0,85                | (STD) 40        |
|              |                       | 3,20                | 10,70                  | 1,10                | (XS) 80         |
| 15           | 21,3                  | 2,77                | 15,76                  | 1,27                | (STD) 40        |
|              |                       | 3,73                | 13,84                  | 1,62                | (XS) 80         |
|              |                       | 4,78                | 11,74                  | 1,94                | 160             |
|              |                       | 7,47                | 6,36                   | 2,56                | (XXS) -         |
| 20           | 26,7                  | 2,87                | 20,96                  | 1,68                | (STD) 40        |
|              |                       | 3,91                | 18,88                  | 2,19                | (XS) 80         |
|              |                       | 5,56                | 15,58                  | 2,89                | 160             |
|              |                       | 7,82                | 11,06                  | 3,64                | (XXS) -         |
| 25           | 33,4                  | 3,38                | 26,64                  | 2,50                | (STD) 40        |
|              |                       | 4,55                | 24,30                  | 3,23                | (XS) 80         |
|              |                       | 6,35                | 20,70                  | 4,23                | 160             |
|              |                       | 9,09                | 15,22                  | 5,45                | (XXS) -         |

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# Pipes

ASTM A106 Seamless / API 5L B, API 5L X42 Welded

| Nominal Bore | Outside Diameter - mm | Wall Thickness - mm | Internal Diameter - mm | Mass (approx.) kg/m | Schedule Number |
|--------------|-----------------------|---------------------|------------------------|---------------------|-----------------|
| 32           | 42,2                  | 3,56                | 35,08                  | 3,38                | (STD) 40        |
|              |                       | 4,85                | 32,50                  | 4,46                | (XS) 80         |
|              |                       | 6,35                | 29,50                  | 5,61                | 160             |
|              |                       | 9,70                | 22,80                  | 7,74                | (XXS) -         |
| 40           | 48,3                  | 3,68                | 40,94                  | 4,05                | (STD) 40        |
|              |                       | 5,08                | 38,14                  | 5,40                | (XS) 80         |
|              |                       | 7,14                | 34,02                  | 7,22                | 160             |
|              |                       | 10,16               | 27,98                  | 9,55                | (XXS) -         |
| 50           | 60,3                  | 3,91                | 52,48                  | 5,43                | (STD) 40        |
|              |                       | 5,54                | 49,22                  | 7,49                | (XS) 80         |
|              |                       | 8,74                | 42,82                  | 11,09               | 160             |
|              |                       | 11,07               | 38,16                  | 13,45               | (XXS) -         |
| 65           | 73,0                  | 5,16                | 62,68                  | 8,62                | (STD) 40        |
|              |                       | 7,01                | 58,98                  | 11,40               | (XS) 80         |
|              |                       | 9,52                | 53,96                  | 14,90               | 160             |
|              |                       | 14,02               | 44,96                  | 20,38               | (XXS) -         |
| 80           | 88,9                  | 5,49                | 77,92                  | 11,29               | (STD) 40        |
|              |                       | 7,62                | 73,66                  | 15,25               | (XS) 80         |
|              |                       | 11,13               | 66,64                  | 21,33               | 160             |
|              |                       | 15,24               | 58,42                  | 27,66               | (XXS) -         |

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# Pipes

ASTM A106 Seamless / API 5L B, API 5L X42 Welded

| Nominal Bore | Outside Diameter - mm | Wall Thickness - mm | Internal Diameter - mm | Mass (approx.) kg/m | Schedule Number |
|--------------|-----------------------|---------------------|------------------------|---------------------|-----------------|
| 90           | 101,6                 | 5,74                | 90,12                  | 13,57               | (STD) 40        |
|              |                       | 8,08                | 85,44                  | 18,62               | (XS) 80         |
| 100          | 114,3                 | 6,02                | 102,26                 | 16,07               | (STD) 40        |
|              |                       | 8,56                | 97,18                  | 22,31               | (XS) 80         |
|              |                       | 11,13               | 92,04                  | 28,25               | 120             |
|              |                       | 13,49               | 87,32                  | 33,49               | 160             |
|              |                       | 17,12               | 80,06                  | 40,98               | (XXS) -         |
| 125          | 141,3                 | 6,55                | 128,20                 | 21,78               | (STD) 40        |
|              |                       | 9,52                | 122,26                 | 30,92               | (XS) 80         |
|              |                       | 12,70               | 115,90                 | 40,24               | 120             |
|              |                       | 15,88               | 109,54                 | 49,05               | 160             |
|              |                       | 19,05               | 103,20                 | 57,38               | (XXS) -         |
| 150          | 168,3                 | 7,11                | 154,08                 | 28,26               | (STD) 40        |
|              |                       | 10,97               | 146,36                 | 42,56               | (XS) 80         |
|              |                       | 14,27               | 139,76                 | 54,17               | 120             |
|              |                       | 18,24               | 131,82                 | 67,49               | 160             |
|              |                       | 21,95               | 124,40                 | 79,10               | (XXS) -         |

\*E&OE

# Pipes

ASTM A106 Seamless / API 5L B, API 5L X42 Welded

| Nominal Bore | Outside Diameter - mm | Wall Thickness - mm | Internal Diameter - mm | Mass (approx.) kg/m | Schedule Number |
|--------------|-----------------------|---------------------|------------------------|---------------------|-----------------|
| 200          | 219,1                 | 6,35                | 206,40                 | 33,31               | (SCH) 20        |
|              |                       | 7,04                | 205,02                 | 36,79               | 30              |
|              |                       | 8,18                | 202,74                 | 42,53               | (STD) 40        |
|              |                       | 10,31               | 198,48                 | 53,10               | 80              |
|              |                       | 12,70               | 193,70                 | 64,63               | (XS) 80         |
|              |                       | 15,06               | 188,98                 | 75,82               | 100             |
|              |                       | 18,24               | 182,62                 | 90,36               | 120             |
|              |                       | 20,62               | 177,86                 | 100,86              | 140             |
|              |                       | 22,22               | 174,66                 | 107,78              | (XXS) -         |
| 250          | 273,0                 | 23,01               | 173,08                 | 111,16              | 160             |
|              |                       | 6,35                | 260,30                 | 41,77               | 20              |
|              |                       | 7,80                | 257,40                 | 51,00               | 30              |
|              |                       | 9,27                | 254,46                 | 60,29               | (STD) 40        |
|              |                       | 12,70               | 247,60                 | 81,54               | (XS) 60         |
|              |                       | 15,06               | 242,88                 | 95,90               | 80              |
|              |                       | 18,24               | 236,52                 | 114,64              | 100             |
|              |                       | 21,41               | 230,18                 | 132,88              | 120             |
|              |                       | 25,40               | 222,20                 | 154,96              | (XXS) 140       |
|              |                       | 28,58               | 215,84                 | 172,09              | 160             |

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# Pipes

ASTM A106 Seamless / API 5L B, API 5L X42 Welded

| Nominal Bore | Outside Diameter - mm | Wall Thickness - mm | Internal Diameter - mm | Mass (approx.) kg/m | Schedule Number |
|--------------|-----------------------|---------------------|------------------------|---------------------|-----------------|
| 300          | 323,8                 | 6,35                | 311,10                 | 49,72               | 20              |
|              |                       | 8,38                | 307,04                 | 65,20               | 30              |
|              |                       | 9,52                | 304,76                 | 73,82               | (STD) -         |
|              |                       | 10,31               | 303,18                 | 79,72               | 40              |
|              |                       | 12,70               | 298,40                 | 97,44               | (XS) -          |
|              |                       | 14,27               | 295,26                 | 108,86              | 60              |
|              |                       | 17,35               | 289,10                 | 131,89              | 80              |
|              |                       | 21,41               | 280,98                 | 159,72              | 100             |
|              |                       | 25,40               | 273,00                 | 186,75              | (XXS) 120       |
|              |                       | 28,58               | 266,64                 | 207,85              | 140             |
|              |                       | 33,32               | 257,16                 | 238,52              | 160             |
| 350          | 355,6                 | 6,35                | 342,90                 | 54,68               | 10              |
|              |                       | 7,92                | 339,76                 | 67,94               | 20              |
|              |                       | 9,52                | 336,56                 | 81,28               | (STD) 30        |
|              |                       | 11,13               | 333,34                 | 94,40               | 40              |
|              |                       | 12,70               | 330,20                 | 107,38              | (XS) -          |
|              |                       | 15,06               | 325,48                 | 126,58              | 60              |
|              |                       | 19,05               | 317,50                 | 157,95              | 80              |
|              |                       | 23,80               | 308,00                 | 194,82              | 100             |
|              |                       | 27,76               | 300,08                 | 224,42              | 120             |
|              |                       | 31,75               | 292,10                 | 253,14              | 140             |
|              |                       | 35,71               | 284,18                 | 281,38              | 160             |

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# Pipes

ASTM A106 Seamless / API 5L B, API 5L X42 Welded

| Nominal Bore | Outside Diameter - mm | Wall Thickness - mm | Internal Diameter - mm | Mass (approx.) kg/m | Schedule Number |
|--------------|-----------------------|---------------------|------------------------|---------------------|-----------------|
| 400          | 406,4                 | 6,35                | 392,70                 | 62,63               | 10              |
|              |                       | 7,92                | 390,56                 | 77,86               | 20              |
|              |                       | 9,52                | 387,36                 | 93,21               | (STD) 30        |
|              |                       | 12,70               | 381,00                 | 123,29              | (XS) 40         |
|              |                       | 16,66               | 373,08                 | 160,05              | 60              |
|              |                       | 21,41               | 363,58                 | 203,32              | 80              |
|              |                       | 26,19               | 354,02                 | 245,32              | 100             |
|              |                       | 30,94               | 344,52                 | 286,44              | 120             |
|              |                       | 36,53               | 333,34                 | 332,62              | 140             |
|              |                       | 40,46               | 325,48                 | 364,85              | 160             |
| 450          | 457,2                 | 6,35                | 444,50                 | 70,59               | 10              |
|              |                       | 7,92                | 441,36                 | 87,79               | 20              |
|              |                       | 9,52                | 438,16                 | 105,14              | (STD) -         |
|              |                       | 11,13               | 434,94                 | 122,36              | 30              |
|              |                       | 12,70               | 431,80                 | 139,19              | (XS) -          |
|              |                       | 14,27               | 428,66                 | 155,91              | 40              |
|              |                       | 19,05               | 419,10                 | 205,62              | 60              |
|              |                       | 23,80               | 409,60                 | 254,38              | 80              |
|              |                       | 29,36               | 398,48                 | 309,44              | 100             |
|              |                       | 34,92               | 387,36                 | 363,19              | 120             |
|              |                       | 39,67               | 377,86                 | 408,01              | 140             |
|              |                       | 45,24               | 366,72                 | 459,18              | 160             |

\*E&OE



# Pipes

ASTM A106 Seamless / API 5L B, API 5L X42 Welded

| Nominal Bore | Outside Diameter - mm | Wall Thickness - mm | Internal Diameter - mm | Mass (approx.) kg/m | Schedule Number |
|--------------|-----------------------|---------------------|------------------------|---------------------|-----------------|
| 500          | 508,0                 | 6,35                | 495,30                 | 78,54               | 10              |
|              |                       | 9,52                | 488,96                 | 117,07              | (STD) 20        |
|              |                       | 12,70               | 482,60                 | 155,10              | (XS) 30         |
|              |                       | 15,06               | 477,88                 | 183,15              | 40              |
|              |                       | 20,62               | 466,76                 | 247,78              | 60              |
|              |                       | 26,19               | 455,62                 | 310,82              | 80              |
|              |                       | 32,54               | 442,92                 | 381,04              | 100             |
|              |                       | 38,10               | 431,80                 | 440,93              | 120             |
|              |                       |                     |                        |                     |                 |

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# Pipes

SANS 62 PIPE

| Nominal Bore mm | Approx. Outside Diameter mm | Outside Diameter |       |                |       | Minimum Wall Thickness |           |          | Uncoated Tubes Screwed & Socket |             |            |
|-----------------|-----------------------------|------------------|-------|----------------|-------|------------------------|-----------|----------|---------------------------------|-------------|------------|
|                 |                             | Light            |       | Medium & Heavy |       | Light mm               | Medium mm | Heavy mm | Light kg/m                      | Medium kg/m | Heavy kg/m |
| 6               | 10,2                        | 10,1             | 9,7   | 10,4           | 9,8   | 1,65                   | 1,75      | 2,32     | 0,364                           | 0,401       | 0,496      |
| 8               | 13,5                        | 13,6             | 13,2  | 13,9           | 13,3  | 1,65                   | 2,05      | 2,54     | 0,521                           | 0,596       | 0,765      |
| 10              | 17,2                        | 17,1             | 16,7  | 17,4           | 16,8  | 1,65                   | 2,05      | 2,54     | 0,680                           | 0,888       | 1,055      |
| 15              | 21,3                        | 21,4             | 21,0  | 21,7           | 21,1  | 1,84                   | 2,32      | 2,84     | 1,000                           | 1,096       | 1,297      |
| 20              | 26,9                        | 26,9             | 26,4  | 27,2           | 26,6  | 2,16                   | 2,32      | 2,84     | 1,459                           | 1,414       | 1,684      |
| 25              | 33,7                        | 33,8             | 33,2  | 34,2           | 33,4  | 2,44                   | 2,84      | 3,54     | 2,255                           | 2,188       | 2,668      |
| 32              | 42,4                        | 42,5             | 41,9  | 42,9           | 42,1  | 2,44                   | 2,84      | 3,54     | 2,890                           | 2,798       | 3,430      |
| 40              | 48,3                        | 48,4             | 47,8  | 48,8           | 48,0  | 2,67                   | 2,84      | 3,54     | 3,294                           | 3,190       | 3,917      |
| 50              | 60,3                        | 60,2             | 59,6  | 60,8           | 59,8  | 2,67                   | 3,19      | 3,94     | 4,446                           | 4,568       | 5,487      |
| 65              | 76,1                        | 76,0             | 75,2  | 76,6           | 75,4  | 3,00                   | 3,19      | 3,94     | 6,050                           | 5,844       | 7,037      |
| 80              | 88,9                        | 88,7             | 88,9  | 89,5           | 88,1  | 3,00                   | 3,54      | 4,24     | 7,149                           | 7,482       | 8,884      |
| 100             | 114,3                       | 113,9            | 113,0 | 114,9          | 113,3 | 3,36                   | 3,94      | 4,73     | 10,127                          | 10,820      | 12,905     |
| 125             | 139,7                       | -                | -     | 140,6          | 138,7 | -                      | 4,24      | 4,73     | -                               | 14,303      | 15,917     |
| 150             | 165,1                       | -                | -     | 166,1          | 164,1 | -                      | 4,24      | 4,73     | -                               | 17,110      | 19,035     |

Add 6% for Galvanised (Weight)

\*E&OE

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