FlexLock Couplings

### Key
1 = Sleeve  
2 = End Ring  
3 = Gasket  
4 = Gasket Gripper Teeth  
5 = Bolts, Nut & Washer

#### FlexLock Couplings

<table>
<thead>
<tr>
<th>Pipe Nom</th>
<th>Pipe OD (mm)</th>
<th>Pipe Material</th>
<th>Bolt Size</th>
<th>Overall Length (L)</th>
<th>End Ring OD (A)</th>
<th>Sleeve Length x Thickness (mm) (S)</th>
<th>Setting Gap</th>
<th>Working Pressure (bar)</th>
<th>Gasket Mould</th>
<th>Coupling Weight (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DN50/2”</td>
<td>60.3</td>
<td>Steel</td>
<td>2-M12 x 145</td>
<td>157</td>
<td>135</td>
<td>80 x 5.5</td>
<td>15 30</td>
<td>16 6</td>
<td>1375</td>
<td>2.7</td>
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<tr>
<td>DN65/2.5”</td>
<td>76.1/77</td>
<td>Steel</td>
<td>2-M12 x 160</td>
<td>170</td>
<td>152</td>
<td>100 x 6.0</td>
<td>20 40</td>
<td>16 6</td>
<td>1394</td>
<td>3.2</td>
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<tr>
<td>DN80/3”</td>
<td>88.9</td>
<td>Steel</td>
<td>4-M12 x 160</td>
<td>170</td>
<td>163</td>
<td>100 x 6.0</td>
<td>20 40</td>
<td>16 6</td>
<td>1382</td>
<td>4.2</td>
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<tr>
<td>DN80/3”</td>
<td>98.0</td>
<td>Ductile Iron</td>
<td>4-M12 x 195</td>
<td>203</td>
<td>181</td>
<td>115 x 6.4</td>
<td>20 40</td>
<td>16 6</td>
<td>1630</td>
<td>5.2</td>
</tr>
<tr>
<td>DN100/4”</td>
<td>114.3</td>
<td>Steel</td>
<td>4-M12 x 170</td>
<td>188</td>
<td>195</td>
<td>100 x 6.0</td>
<td>20 40</td>
<td>16 6</td>
<td>1367</td>
<td>6.1</td>
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<tr>
<td>DN100/4”</td>
<td>118</td>
<td>Ductile Iron</td>
<td>4-M12 x 195</td>
<td>203</td>
<td>200</td>
<td>115 x 6.4</td>
<td>20 40</td>
<td>16 6</td>
<td>1618</td>
<td>5.6</td>
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<tr>
<td>DN150/6”</td>
<td>165.1</td>
<td>Steel</td>
<td>6-M12 x 170</td>
<td>188</td>
<td>254</td>
<td>100 x 7.2</td>
<td>20 40</td>
<td>16 6</td>
<td>1269</td>
<td>9.2</td>
</tr>
<tr>
<td>DN150/6”</td>
<td>168.3</td>
<td>Steel</td>
<td>6-M12 x 170</td>
<td>188</td>
<td>256</td>
<td>100 x 7.2</td>
<td>20 40</td>
<td>16 6</td>
<td>1369</td>
<td>9.3</td>
</tr>
<tr>
<td>DN150/6”</td>
<td>170</td>
<td>Ductile Iron</td>
<td>6-M12 x 170</td>
<td>178</td>
<td>256</td>
<td>100 x 7.2</td>
<td>20 40</td>
<td>16 6</td>
<td>1369</td>
<td>9.2</td>
</tr>
<tr>
<td>DN200/8”</td>
<td>219.1</td>
<td>Steel</td>
<td>8-M12 x 170</td>
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<td>310</td>
<td>100 x 7.2</td>
<td>20 40</td>
<td>16 6</td>
<td>1370</td>
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<tr>
<td>DN200/8”</td>
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<td>Ductile Iron</td>
<td>6-M16 x 195</td>
<td>206</td>
<td>316</td>
<td>115 x 6.4</td>
<td>20 40</td>
<td>16 6</td>
<td>1631</td>
<td>12.0</td>
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<tr>
<td>DN250/10”</td>
<td>273.0</td>
<td>Steel</td>
<td>12-M16 x 275</td>
<td>286</td>
<td>376</td>
<td>178 x 8.5</td>
<td>20 40</td>
<td>10 6</td>
<td>1737</td>
<td>32.2</td>
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<tr>
<td>DN250/10”</td>
<td>274</td>
<td>Ductile Iron</td>
<td>12-M16 x 275</td>
<td>286</td>
<td>376</td>
<td>178 x 8.5</td>
<td>20 40</td>
<td>10 6</td>
<td>1737</td>
<td>32.2</td>
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<tr>
<td>DN300/12”</td>
<td>323.9</td>
<td>Steel</td>
<td>12-M16 x 275</td>
<td>286</td>
<td>436</td>
<td>178 x 6.0</td>
<td>20 40</td>
<td>10 6</td>
<td>7667/8</td>
<td>33.7</td>
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<tr>
<td>DN300/12”</td>
<td>326</td>
<td>Ductile Iron</td>
<td>12-M16 x 275</td>
<td>286</td>
<td>436</td>
<td>178 x 6.0</td>
<td>20 40</td>
<td>10 6</td>
<td>7667/8</td>
<td>33.7</td>
</tr>
</tbody>
</table>

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Technical Information

Working Pressure Rating

Water:
- DN50 to DN200 = 16 bar
- DN250 to DN300 = 10 bar

Gas:
- DN50 to DN300 = 6 bar

Vacuum Pressure
Capable of accommodating a vacuum pressure of -0.7 bar

Site Test Pressure
1.5 times working pressure for short duration (2 hours)

Angularity
Couplings 6°

Bolt Torque / Spanner
M12; Torque 55-65Nm on every bolt
M16; Torque 95-120Nm on every bolt

Temperature Rating of Product
EPDM -20°C to +40°C
Nitrile -20°C to +40°C

Materials & Relevant Standards

Centre Sleeve & End Ring Options:
- SG. Iron to BS 1563: Symbol EN-GJS-450-10
- Rolled Steel to: BS EN 10025: Grade S275

Coupling Body Options:
- Ductile Iron to BS EN 1563 EN-GJS-450-10
- Mild Steel to: BS EN 10025: Grade S275

Gasket
EPDM compound Grade E to BS EN 681-1
Nitrile compound Grade ‘G’ to BS EN 682-1

Gasket Gripper Teeth
Stainless Steel BS 3146: Part 2 Grade ANC2

Coatings
Body, Centre Sleeve, & End Rings:
- Rilsan Nylon 11 to WIS 4-52-01 Part 1
Bolts, Studs & Nuts:
- Sheraplex coated to WIS 4-52-03

Bolts
Cold Forged Steel Fasteners to: BS EN ISO898-1: Property Class 8.8

Nuts
Steel BS EN 20898-2: Property Class 8

Washers
BS 4320 Form B Stainless Steel BS 1449:PT2: Grade 304 S15

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