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FCS, through its branch network stock, supply and distribute high quality SABS approved PVC Pressure pipe, manufactured via ISO approved factories which are all trusted member of SAPPMA

PVC PRESSURE PIPE TECHNICAL SPECIFICATIONS

WHY PVC FOR PRESSURE APPLICATIONS?

PVC pressure pipe systems offer many advantages when compared to traditional products, namely:

- Enhanced hydraulic performance.
- Durability and toughness – resistance to handling and installation damage.
- Corrosion resistance – greater service life.
- Lower mass – ease of handling and installation, particularly suited to labour intensive projects.
- Locked-in sealing ring system – no specialist installation skills required.
- Savings on installation time.
- Manufactured within internationally accepted standards.
- Highly recyclable - Waste generated during manufacturing is pulverized and reprocessed• Savings on transport costs.
- Service performance in excess of 50 years.
- Unique combination of properties
 - Toughness
 - Stiffness
 - High tensile and hoop strength
 - Excellent resistance to creep
- Predictable long-term behaviour.
- Energy efficient - PVC pipe production consumes less energy during manufacturing than steel, clay or ductile iron

PVC-U Pressure Pipe

Un-Plasticised Polyvinyl Chloride (PVC-U) Pressure Pipe systems SANS 966 Part 1- 2014

(PVC-U) Heavy-Metal Free – Organic

Product Range

- Pressure Classes 4, 6, 9, 12, 16 and 20 Bar
- Length Supplied in standard 6m **lengths**
- Pipe Ends / Joints Spigot and socket pipe **with integral socket and rubber ring**

| Outside Dia.mm | Class 4 | | Class 6 | | Class 9 | | Class 12 | | Class 16 | | Class 20 | |
|----------------|---------|-------|---------|--------|---------|--------|----------|--------|----------|--------|----------|--------|
| | mm | kg | mm | kg | mm | kg | mm | kg | mm | kg | mm | kg |
| 16 | - | - | - | - | - | - | - | - | 1.5 | 0.62 | - | - |
| 20 | - | - | - | - | - | - | - | - | 1.5 | 0.79 | - | - |
| 25 | - | - | - | - | - | - | 1.5 | 1.01 | 1.9 | 1.25 | - | - |
| 32 | - | - | - | - | 1.5 | 1.31 | 1.8 | 1.55 | 2.4 | 2.03 | - | - |
| 40 | - | - | 1.5 | 1.65 | 1.8 | 1.96 | 2.3 | 2.47 | 3 | 3.16 | - | - |
| 50 | 1.5 | 2.08 | 1.8 | 2.48 | 2.2 | 3 | 2.8 | 3.77 | 3.7 | 4.88 | - | - |
| 63 | 1.5 | 2.63 | 1.9 | 3.31 | 2.7 | 4.64 | 3.6 | 6.09 | 4.7 | 7.8 | - | - |
| 75 | 1.5 | 3.15 | 2.2 | 4.57 | 3.2 | 6.56 | 4.3 | 8.67 | 5.6 | 11.07 | - | - |
| 90 | 1.8 | 4.53 | 2.7 | 6.73 | 3.9 | 9.58 | 5.1 | 12.34 | 6.7 | 15.89 | - | - |
| 110 | 2.2 | 6.77 | 2.6 | 8.14 | 3.9 | 12.11 | 5.1 | 15.67 | 6.7 | 20.29 | 8.2 | 24.48 |
| 125 | 2.5 | 8.91 | 3 | 10.66 | 4.4 | 15.53 | 5.8 | 20.25 | 7.6 | 26.15 | 9.3 | 31.55 |
| 140 | 2.8 | 11.19 | 3.3 | 13.19 | 4.9 | 19.37 | 6.5 | 25.41 | 8.5 | 32.75 | 10.4 | 39.51 |
| 160 | 3.2 | 14.64 | 3.8 | 17.36 | 5.6 | 25.32 | 7.4 | 33.1 | 9.7 | 42.76 | 11.9 | 51.73 |
| 200 | 3.9 | 22.4 | 4.7 | 26.92 | 7 | 39.68 | 9.2 | 51.62 | 12.1 | 66.92 | 14.9 | 81.24 |
| 250 | 4.9 | 35.33 | 5.9 | 42.46 | 8.7 | 62.68 | 11.5 | 81.12 | 15.1 | 105.03 | 18.6 | 127.58 |
| 315 | 6.2 | 56.44 | 7.4 | 67.28 | 11 | 99.04 | 14.5 | 129.29 | 19 | 167.12 | - | - |
| 355 | 7 | 72.19 | 8.4 | 86.55 | 12.4 | 126.57 | 16.3 | 164.83 | 21.4 | 213.49 | - | - |
| 400 | 7.9 | 90.9 | 9.4 | 109.4 | 14 | 161.41 | 18.4 | 210.21 | - | - | - | - |
| 450 | - | - | 10.6 | 139.39 | 15.7 | 204.6 | - | - | - | - | - | - |
| 500 | - | - | 11.8 | 172.59 | 17.4 | 252.34 | - | - | - | - | - | - |
| 560 | 11 | 182 | 13.2 | 217 | 19.5 | 318 | - | - | - | - | - | - |
| 630 | 12.5 | 232 | 14.8 | 274 | 21.9 | 401 | - | - | - | - | - | - |

PVC-M Pressure Pipe

Modified Polyvinyl Chloride (PVC-M) Pressure Pipe systems SANS 966 Part 2 -2013
(PVC-M) Heavy-Metal Free – Organic.

Product Range

- Pressure Classes 6, 9, 12, 16, 20 and 25 Bar
- Length Supplied in standard 6m **lengths**
- Pipe Ends / Joints Spigot and socket pipe **with integral socket and rubber ring**

| Outside Dia.mm | Class 6 | | Class 9 | | Class 12 | | Class 16 | | Class 20 | | Class 25 | |
|----------------|---------|-------|---------|-------|----------|-------|----------|-------|----------|-------|----------|-------|
| | mm | kg | mm | kg | mm | kg | mm | kg | mm | kg | mm | kg |
| 50 | 1.5 | 2.1 | 1.5 | 2.1 | 1.7 | 2.4 | 2.2 | 3 | 2.7 | 3.7 | 3.3 | 4.4 |
| 63 | 1.5 | 2.7 | 1.6 | 2.8 | 2.1 | 3.7 | 2.7 | 4.7 | 3.4 | 6 | 4.1 | 7 |
| 75 | 1.5 | 3.2 | 1.9 | 4 | 2.5 | 5.3 | 3.2 | 6.8 | 4 | 8.2 | 4.9 | 10 |
| 90 | 1.8 | 4.6 | 2.2 | 5.6 | 3 | 7.6 | 3.9 | 9.7 | 4.8 | 11.9 | 5.9 | 14.4 |
| 110 | 2.2 | 6.9 | 2.7 | 8.4 | 3.6 | 11.1 | 4.7 | 14.4 | 5.8 | 17.6 | 7.2 | 21.5 |
| 122 | - | - | - | - | 4 | 13.3 | 5.2 | 17.2 | - | - | - | - |
| 125 | 2.5 | 8.9 | 3.1 | 11 | 4.1 | 14.4 | 5.4 | 19.1 | 6.6 | 22.7 | 8.2 | 27.9 |
| 140 | 2.8 | 11.2 | 3.5 | 14.2 | 4.6 | 18.1 | 6 | 24.1 | 7.4 | 28.6 | 9.1 | 35.8 |
| 160 | 3.2 | 14.6 | 4 | 18.2 | 5.2 | 23.5 | 6.9 | 30.8 | 8.5 | 37.6 | 10.4 | 45.5 |
| 177 | - | - | - | - | 5.8 | 28.1 | 7.7 | 36.8 | - | - | - | - |
| 200 | 3.9 | 22.3 | 4.9 | 27.9 | 6.5 | 36.8 | 8.6 | 48.2 | 10.6 | 60.3 | 13 | 71.3 |
| 250 | 4.9 | 35.1 | 6.1 | 44.9 | 8.1 | 57.6 | 10.7 | 75.4 | 13.2 | 94.6 | 16.3 | 112.5 |
| 315 | 6.2 | 56.3 | 7.7 | 69.7 | 10.2 | 91.7 | 13.5 | 120.3 | 16.6 | 146.7 | - | - |
| 355 | 7 | 72 | 8.7 | 89.2 | 11.5 | 117.3 | 15.2 | 153.6 | - | - | - | - |
| 400 | 7.8 | 90.3 | 9.8 | 113.5 | 13 | 149.8 | 17.1 | 195.4 | - | - | - | - |
| 450 | 8.9 | 116.7 | 11 | 144 | 14.6 | 190.1 | - | - | - | - | - | - |
| 500 | 9.8 | 144.4 | 12.2 | 177.7 | 16.2 | 234.8 | - | - | - | - | - | - |
| 560 | 11 | 182 | 13.5 | 222 | 17.1 | 280 | 23.4 | 378 | - | - | - | - |
| 630 | 12.5 | 232 | 15.4 | 285 | 20.4 | 375 | 26.9 | 489 | - | - | - | - |