

# Flexibore® 250

## Flexible rising main



Flexibore 250 coupling set

### IDEAL FOR

- Bore water pumping
- Potable water use
- Easy installation
- Rapid retrieval
- Low-cost pumping

**Flexibore 250** is a high-quality layflat hose manufactured for use with submersible pumps. Its revolutionary flexible design simplifies bore water pumping replacing cumbersome rigid pipe.

**Flexibore 250** is manufactured by weaving a textile reinforcement of high-tensile polyester and extruded with hydrolysis-resistant polyurethane. The woven polyester fabric gives the hose a high burst pressure for deep bore pumping. It is designed to handle the weight of the pump and column of water up to 250 m deep.

Secure couplings are easily attached on-site. A coloured strip with loops every metre runs along the hose length. These loops allow for the power cable's secure attachment and prevent possible rubbing of the cable against appropriately-sized bore casings.

**Flexibore 250** can dilate up to 15%, making it extremely efficient in reducing pumping costs and friction loss. By dilating under pressure, no internal build-up of iron bacteria occurs, as seen with rigid pipe use such as poly pipe or fibreglass.

Proudly manufactured in Australia by Crusader Hose, **Flexibore 250** is made to suit most bore water pumping applications. It is manufactured in a large range of diameters from 40 mm to 152 mm and is available in continuous lengths of up to 250 m. Each roll is fully tested at our factory prior to despatch.

### FEATURES

- ✓ Deep groundwater pumping up to 250 m
- ✓ Ultra-high tensile for large submersible pumps
- ✓ Flexible - easy to install and retrieve
- ✓ Dilates - no internal build-up
- ✓ Rigorously tested
- ✓ Secure couplings
- ✓ Australian Made

### TECHNICAL DATA

| Diameter (ID)                               | 40 mm     | 51 mm     | 76 mm     | 102 mm    | 127 mm    | 152 mm    |           |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|   | 1.5"      | 2"        | 3"        | 4"        | 5"        | 6"        |           |
| Max. operating head                         | 250 m     | 250 m     | 250 m     | 250 m     | 250 m     | 250 m     |           |
| Min. burst pressure                         | 7200 kPa  | 7400 kPa  | 5800 kPa  | 5200 kPa  | 5000 kPa  | 5800 kPa  |           |
| Peak tensile load                           | 3.5 t     | 3.2 t     | 8.3 t     | 10 t      | 14.5 t    | 21 t      |           |
| Rec. max. tensile load                      | 1.7 t     | 1.6 t     | 4.2 t     | 5 t       | 7.3 t     | 10 t      |           |
| Weight of hose/m                            | 0.5 kg    | 0.6 kg    | 1.1 kg    | 1.3 kg    | 2.1 kg    | 2.7 kg    |           |
| Weight of hose with water/m at 10% dilation | 1.9 kg    | 2.8 kg    | 6.1 kg    | 10.3 kg   | 16 kg     | 22.7 kg   |           |
| Max. flow rate                              | 4 L/s     | 6 L/s     | 18 L/s    | 40 L/s    | 55 L/s    | 90 L/s    |           |
| Coupling OD                                 | 75 mm     | 90 mm     | 120 mm    | 150 mm    | 170 mm    | 195 mm    |           |
| Weight of S/S coupling                      | 1.3 kg    | 2.8 kg    | 5.5 kg    | 7.8 kg    | 11.7 kg   | 13 kg     |           |
| Fitting bolt torque*                        | 6 Nm      | 15 Nm     | 30 Nm     | 30 Nm     | 30 Nm     | 30 Nm     |           |
| Part # Flexibore 250 hose                   | HFB040XUA | HFB051XUA | HFB076XUA | HFB102XUA | HFB127XUA | HFB152XUA |           |
| Part # Flexibore 250 coupling set           | 304 S/S   | CLF040BCE | CLF050BCE | CLF076BCE | CLF102BCE | CLF127BCE | CLF152BCE |
|   | 316 S/S   | CLF040BDE | CLF050BDE | CLF076BDE | CLF102BDE | CLF127BDE | CLF152BDE |

\*Rocol nickel-based anti-seize or equivalent must be applied to the bolt thread.

### OTHER SPECS

|                         |        |
|-------------------------|--------|
| Water pH                | 3 to 9 |
| Max. operating temp     | 70 °C  |
| Max. diametric dilation | 15 %   |
| Max. extension**        | 2 %    |
| Safety factor           | 2:1    |

\*\*within recommended operating parameters.

**NOTE:** For operation beyond stated recommended operating limits, consider **Flexibore 300** or contact your Flexibore distributor.



Scan here to watch a Flexibore installation

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Crusader Hose reserves the right to modify any specification as part of ongoing product development and without prior notice.

Contact Crusader Hose to ensure that the current technical data sheets and documentation are used.

