



Flexibore[®] 400 for Bore Water Pumping



Flexibore® 400



Flexibore 400 Coupling Set
(One set = one coupling and two clamps)



FEATURES

- ✓ Ultra-deep bore water pumping up to 400 m
- ✓ Ultra-high pressure
- ✓ High tensile for very large submersible pumps
- ✓ Flexible - can be rolled up
- ✓ Dilates - no internal build-up
- ✓ Rigorously tested
- ✓ Secure couplings
- ✓ Australian Made

Flexibore 400: The Ultimate Layflat Hose for Submersible Pumps

Flexibore 400 is a premium layflat hose designed to simplify bore water pumping by replacing rigid pipes with a flexible, high-performance alternative. Manufactured in Australia by **Crusader Hose**, this revolutionary hose is engineered for deep bore applications, supporting pump depths of up to **400 m**.

Superior Strength & Durability

Flexibore 400 is constructed using a **high-tensile polyester weave** and **hydrolysis-resistant polyurethane**, ensuring exceptional strength and reliability. The woven textile reinforcement provides **high burst pressure** while also bearing the full weight of the pump and water column.

Efficient & Cost-Effective

Unlike traditional rigid pipes, Flexibore 400 can **dilate by up to 10%**, reducing friction loss and significantly lowering pumping costs. Its dilation also prevents iron bacteria build-up, a common issue in poly pipe or fibreglass systems.

Easy Installation & Secure Cable Management

Secure **couplings can be attached on-site using simple tools**. The hose's coloured guide-strip features loops spaced at 0.5 m intervals, allowing safe attachment of power cables and preventing abrasion against the bore casing. The **127 mm and 152 mm** diameters come standard with a **dual-strip system** to support heavy or multiple large power cables. In this configuration, the loops are **staggered** along the hose rather than aligned in parallel. Other diameters can be customised with an additional strip.

Versatile & Reliable

Available in a wide range of diameters and **continuous lengths** up to 500 m. Every roll undergoes rigorous factory testing before despatch, guaranteeing reliability in the field. Some minimum order quantities may apply. For a **high-quality, easy-to-install, and cost-efficient** bore water pumping solution, choose **Flexibore 400** – engineered for performance, built to last.

Flexibore 400-A: Chemical Resistance for Demanding Environments

Flexibore 400-A offers enhanced chemical resistance for superior durability in aggressive conditions. Flexibore 400-A hose pairs seamlessly with duplex and super duplex couplings, ensuring maximum corrosion protection.

TECHNICAL DATA

| Diameter (ID) | 76 mm 3" | 102 mm 4" | 127 mm 5" | 152 mm 6" |
|--|--------------|--------------|--------------|--------------|
| Max. operating head | 400 m | 400 m | 400 m | 400 m |
| Min. burst pressure | 10000 kPa | 10000 kPa | 9000 kPa | 8000 kPa |
| Peak tensile load | 14 t | 20 t | 25 t | 30 t |
| Recommended max. tensile load | 7 t | 10 t | 12.5 t | 15 t |
| Weight of hose/m | 1.5 kg | 2.3 kg | 3 kg | 3.6 kg |
| Weight of hose with water/m at 10% dilation | 6.5 kg | 11.3 kg | 16.9 kg | 23.6 kg |
| Max. flow rate | 18 L/s | 40 L/s | 55 L/s | 90 L/s |
| Dual strip | Custom order | Custom order | Standard | Standard |
| Coupling OD | 120 mm | 150 mm | 180 mm | 205 mm |
| Weight of S/S coupling | 6 kg | 8 kg | 12 kg | 14 kg |
| Fitting bolt torque* | 30 Nm | 30 Nm | 30 Nm | 55 Nm |
| Part # Flexibore 400 hose | HFD076XUA | HFD102XUA | HFD127XUB | HFD152XUB |
| Part # Flexibore 400-A hose | HFG076XUA | HFG102XUA | HFG127XUB | HFG152XUB |
| Part # Flexibore 400 coupling set in 316 S/S** | CLF076DDE | CLF102DDE | CLF127DDE | CLF152DDE |
| Part # coupling set fitted with brass break-off plug | CLF076DDF | CLF102DDF | CLF127DDF | CLF152DDF |

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

**Coupling sets in Duplex 2205 & Super Duplex 2507 available on special order.

OTHER SPECS

| | |
|---|--------|
| Water pH | 3 to 9 |
| Max. operating temp | 70 °C |
| Max. diametric dilation | 10 % |
| Max. extension*** | 2 % |
| Safety factor | 2:1 |
| ***within recommended operating parameters. | |

NOTE: For operation beyond stated recommended operating limits, contact your Flexibore distributor.

INTENDED USE: Flexibore systems are intended for upstream raw water transfer only, and it is assumed that suitable filtration and treatment are installed prior to connection to regulated potable water plumbing systems.

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 most up-to-date information is used.





Flexibore Accessories

Crusader Hose designs and manufactures a comprehensive range of accessories to streamline the installation and retrieval of **Flexibore** hose.

FlexiStrap HD - Secure Cable Management for Flexibore

FlexiStrap HD is a reliable cable-securing solution for use with Flexibore. FlexiStraps are particularly recommended for securing thicker power cables, ensuring stability and durability in demanding environments.



Lifting Clamp

A crucial tool for the safe and efficient installation of your submersible pump. Crusader Hose provides a selection of **Lifting Clamps**, with load capacities ranging from **1.2 tonnes to 7 tonnes**, ensuring compatibility with your bore installation project.



Installation Roller

Designed to simplify the installation and retrieval of submersible pumps using the **vehicle installation method**. Crusader Hose offers **Installation Rollers** rated for **5 tonnes and 10.5 tonnes**, providing durability and ease of use for your operations.



Other Accessories

Bore Cap



Break-Off Plug



Hose Joiner



Adaptors & Sockets



Torpedo



Scan to read a Flexibore case study



Flexibore® 400

IDEAL FOR

- Deep bore water pumping - diameters of 76 mm to 152 mm
- Potable water use
- Easy installation
- Rapid retrieval
- Low-cost pumping



Dual Strip

The 127 mm and 152 mm diameters come standard with a dual-strip system to support heavy or multiple large power cables. In this configuration, the loops are staggered along the hose rather than aligned in parallel.

When required, selected hose sizes can be customised with an additional strip.



A-frame & Reel with bulk length of Flexibore hose



Crusader Hose Pty Ltd

22 Industry Place, Bayswater VIC 3153 Australia

e: sales@crusaderhose.com.au p: +61 3 9720 1100

www.crusaderhose.com.au

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