

FLEXIBORE 250

Flexible Rising Main



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Product Description



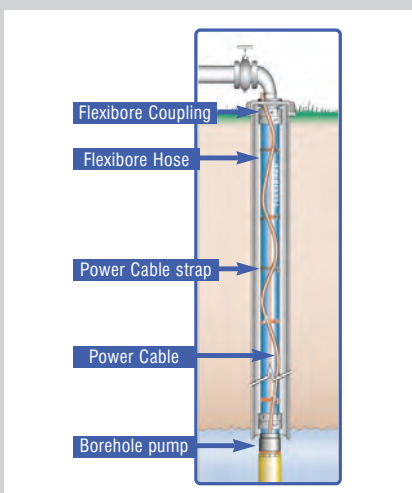
Description

Flexibore® 250 is a flexible riser used for ground water pumping. By integrating thermoplastic polyurethane into a woven textile fabric of high tenacity polyester, the hose is produced. This process gives the hose flexibility while sustaining the weight of a submersible pump.

Compatibility

Flexibore® 250 will suit many borehole applications and is compatible with most submersible pumps. The sizes range from 40mm to 152mm internal diameter and depths of up to 250m.

Applications



Typical Applications

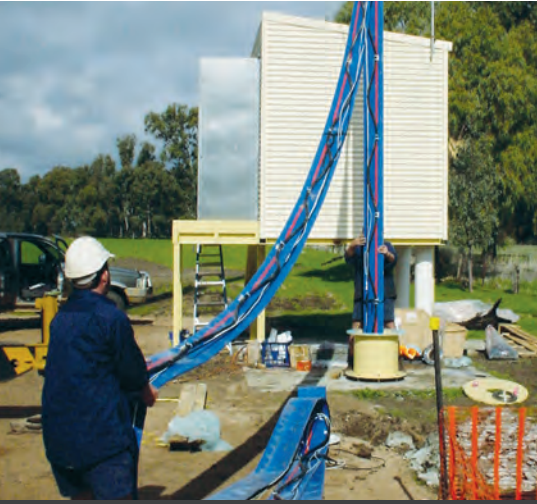
These include mine de-watering, domestic and municipal water supply, test pumping, rural and industrial bore-water retrieval and similar ground water projects.

General Application

Flexibore® 250 has been specifically designed to replace rigid riser pipes such as steel which is subject to rust and encrustations. This internal scaling reduces flow rates and pump efficiency. Other risers such as PVC and polypipe can be brittle or bend. They are also generally heavier and hard to handle.

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Ease of Use



Easy Installation

Once in the field, **Flexibore® 250** is attached to the pump with the patented couplings. The pump, with hose and cables attached, is lowered into the bore using either a simple rolling wheel or a crane. See our installation manual for further details or visit www.flexibore.com.au.

Transportable

With its continuous length, the hose can be installed with less time and labour than rigid systems, this includes poly pipe. The same advantages apply to pump retrieval.

Benefits

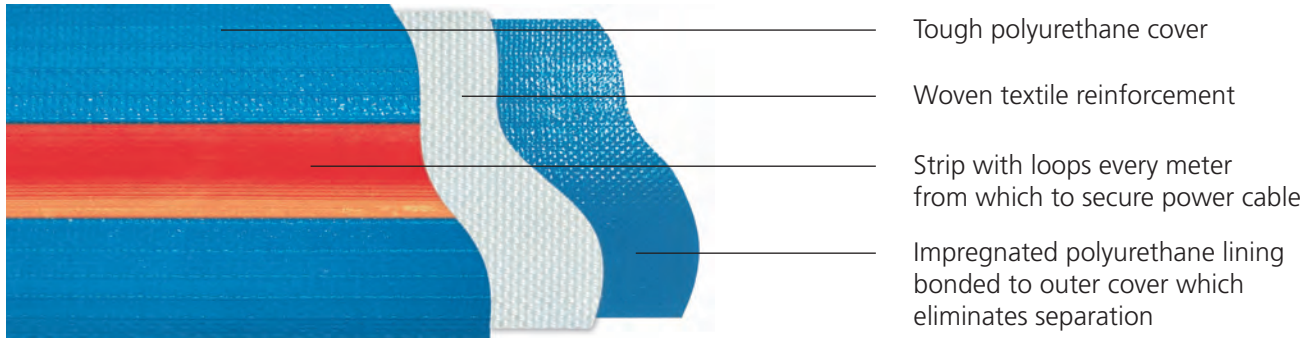


Benefits and Cost Saving Features

- ✓ Quick and easy installation and retrieval
- ✓ No internal scaling
- ✓ Totally corrosion resistant
- ✓ Reduced head losses and improved flow rates due to swelling under pressure
- ✓ Less labour intensive due to ease of installation
- ✓ Reduced transport costs due to light weight and easy handling
- ✓ Custom lengths made to order
- ✓ Potable water approved: AS 4020
- ✓ All hydrostatically tested

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Each **Flexibore® 250** is covered by a 5 year pro-rata warranty against faulty materials and workmanship.

FLEXIBORE® 250 SERIES						
Nominal size (inches)	1 1/2"	2"	3"	4"	5"	6"
Internal diameter (mm)	40	51	76	102	126	152
Burst pressure (bar)	72	74	58	52	50	44
Maximum recommended operating pressure (bar)	36	37	29	26	25	22
Peak tensile load (tonnes)	3.5	3.2	8.3	10.0	14.5	16.0
Max. recommended tensile load (tonnes)	1.7	1.6	4.2	5.0	7.3	8.0
Weight of Flexibore® (kg/m)	0.4	0.6	0.9	1.5	2.1	2.5
Outer diameter of coupling (mm)	70	90	115	140	170	190
Weight of coupling stainless steel (kg)	1.3	2.8	5.5	7.8	11.7	13.0
Weight of water at 10% swell (kg/m)	1.21	2.20	3.74	8.91	14.3	19.8
Fitting bolt torque (Nm)	30	40	60	60	80	80
Maximum flow rate (l/sec)	4	6	18	40	55	90

NOTE: For OPERATION beyond stated RECOMMENDED OPERATING LIMITS, consider **Flexibore® 300**, **Flexibore® 400** or contact your **Flexibore®** distributor.

OTHER SPECS			
Maximum operating temperature	60°C	Maximum diametric swell	15%
Water pH range	3 to 9	Average extension	0.5%
		Safety factor	2:1



Crusader Hose Pty Ltd

22 Industry Place Bayswater VIC 3153 Australia
 Telephone: +61 3 9720 1100 Facsimile: +61 3 9720 5756
 Email: sales@crusaderhose.com.au
www.crusaderhose.com.au