

FLEXIBORE 250

Flexible Rising Main



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Product Description



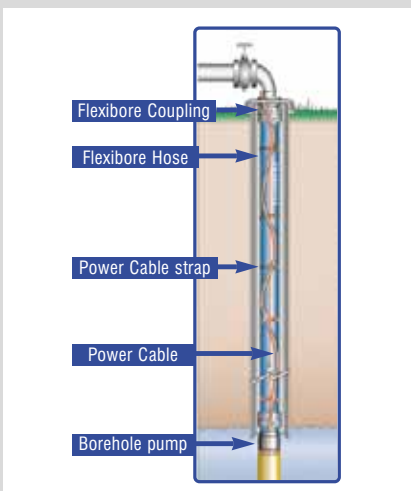
Description

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 200mm 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 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 brochure for further details.

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

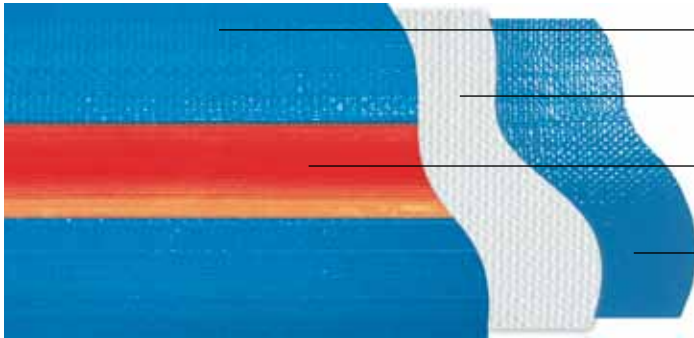


Benefits and Cost Saving Features

- ✔ 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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Tough polyurethane cover

Woven polyester fabric

Strip with loops every meter from which to secure power cable

Impregnated polyurethane lining bonded to outer cover which eliminates separation

Each Crusader hose 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	8
Internal diameter (mm)	40	51	76	102	126	152	200
Burst pressure (bar)	38	74	58	52	50	44	42
Maximum recommended operating pressure (bar)	19	37	29	26	25	22	21
Peak Tensile Load (tonnes)	2.1	3.2	8.3	10.0	14.5	16.0	22.0
Max. recommended Tensile Load (tonnes)	1.0	1.6	4.2	5.0	7.3	8.0	11.0
Weight of Flexibore (kg/m)	0.3	0.6	0.9	1.5	2.1	2.5	3.4
Outer diameter of Coupling (mm)	70	90	115	140	170	190	270
Weight of coupling stainless steel (kg)	1.3	2.8	5.5	7.8	11.7	13	41
Weight of water at 10% swell (kg/m)	1.52	2.38	5.49	9.89	15.09	21.96	31.00
Maximum flow rate (l/sec)	4	6	18	40	55	90	148

NOTE: For OPERATION beyond stated RECOMMENDED OPERATING LIMITS, 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



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