

BORE RISING MAIN SYSTEMS

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FLEXI RISER SYSTEMS



BORE RISING MAIN

ALLIED PUMPS Rising Pipe is an innovative system made from high quality rigid PVC and has been created to connect submersible pumps to site water distribution systems. The particular extrusion process the pipe is subjected to, as well as its physicochemical structure, allows the pipe to have exceptional resistance against high internal pressure and tensile loads.

Rising Pipe also offers extremely high impact strength. Laboratory and real life site tests have proved the product to be suited to the toughest applications with no pipes showing any signs of damage or stress during handling, installation and removal of pumps.

Allied Pumps' Rising Pipe system has also been designed with ease of installation and transport in mind. The acme threads (male + male thread) at each pipe ends are supplied with a prearranged coupling. The inner part of the pipe coupling is equipped with two gaskets, which guarantee 100% sealing while operating at high pressures. The Rising Pipe coupling system also incorporates a locking ring which acts as a mechanical barrier to accidental loosening of the couplings due to vibrations or anomalous torsional stresses of the column. Connection of the pump to the rising main is via a heavy duty stainless steel coupling.

Rising Pipes have been designed to have totally smooth walls without any narrowing and/or corrosion. The design is also such that the pipe walls cannot be effected by subsurface stray current. Hydrodynamic tests that the pipes have undergone show exceptional hydraulic results with a hydraulic coefficient ($k = 0.01$), which ensures greater efficiency, lower pumping costs as well as a reduced water hammer effect due to a slower flow velocity (1/3 compared to metal piping).

Rising Pipes are also certified and suitable for transporting potable water and food liquids.

KEY FEATURES

- Light weight pipes for ease of handling
- Innovative coupling and locking system for quick installation
- Designed for high bore pump installation depth
- Able to handle high pump discharge pressures
- Complete plastic construction for corrosion protection

PRODUCT SELECTION GUIDE:

Outer Diameter		Thickness mm	Type Code	Inner Diameter	Pipe Coupling Outer Diameter	Thread Type	Pipe Weight kg/mtrs
mm	inch						
48	1" 1/2	4.5	R20	39.0	60	TPN4	0.91
60	2"	5.8	R20	48.4	75	TPNS	1.46
75	2" 1/2	6.8	R20	61.4	90	TPN4	2.16
90	3"	8.2	R20	73.6	105	TPN4	3.12
114	4"	8.2	R20	97.6	130	TPN6	4.00
140	5"	10.3	R20	119.4	170	TPN6	6.21
170	6"	12.0	R20	146.0	200	TPN6	8.81
225	8"	16.7	R20	191.6	265	TPN6	16.17

Note: Standard pipe length - 4 metres

Pump & Outlet Diameters	
Nominal pump diameter	Outlet diameter (gas female thread) for connection to the outlet pipe
Inch	Inch
3"	1"
4"	1" 1/4
4"	2"
6"	2" 1/2
6"	3"
8"	3"
8"	5"
10"	5"

Stainless steel connection fitting pump	
Pump connection piece - Gas Male thread	Connection piece for outlet pipe Female - Acme thread
Inch	Inch
1" 1/4	1" 1/2
2"	2"
2" 1/2	2" 1/2
2" 1/2	3"
3"	3"
3"	4"
5"	5" 1/2
Flange	6" 1/2
Flange	8" 1/2





FLEXI RISER SYSTEMS

CRUSADER FLEXIBORE 250

Crusader Flexibore 250 is a flexible riser system used for typical mine dewatering, domestic and municipal water supply, test pumping, rural and industrial bore water retrieval projects.

Compatible with most submersible pumps, Flexibore is specifically designed to replace antiquated rigid riser systems consisting of steel and heavier materials such as polypipe.

Flexibore 250 facilitates easy installation with its continuous length and lightweight construction. The hose can be quickly attached to the pump on-site using patented couplings. Flexibore 250 hose sustains the weight of the submersible pump and is then lowered into the bore using a simple rolling wheel or crane.

All Flexibore systems are hydrostatically tested and approved to potable water Australian Standard 4020. Crusader Flexibore 250 riser systems come with a 5 year pro-rata warranty and are totally corrosion and internal scaling resistant.

WELLMASTER 250

Wellmaster 250 Flexible Rising Main system simplifies all types of ground water extraction and monitoring operations. Its innovative system is the cost-effective answer to unyielding steel pipe and complies with world-wide potable water approval and AS 4020.

Circular woven from rigid synthetic yarns with a tough elastomeric polyurethane lining, Wellmaster 250 rising main is proven to handle tensile strengths up to 20 tonne. Featuring a lightweight, flat coilable construction to facilitate storage, handling and transportation, Wellmaster 250 ensures rapid site installation with 200 m single lengths. The rising system is also available with a range full range of accessories, including reusable and field-fittable, high security 316 stainless steel couplings.

Wellmaster 250 Flexible Rising Main offers exceptional operative lifetime and resistance to abrasions, corrosion and bacteria. Wellmaster 250 riser main system is designed for compatibility with all types of submersible pumps and guarantees reduced labour costs.

Please contact our Sales team for operation parameters.



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