

WATER WELL PERFORMANCE

Flexible Drop Pipe: Benefits of Advanced Technology



New World • New Thinking • New Solutions

Flexible Drop Pipe

What is it?

- Polyurethane and High Tenacity Fibers
- Submersible pump
- 100% Lead Free



Where is it used?

- Water Utilities
- Residential
- Agricultural
- Industrial
- Mining
- ASR
- Testing



Drop Pipe Choices

- Steel
- PVC
- HDPE (Polypipe)
- Flexible Drop Pipe



Cumbersome Installation and Removal

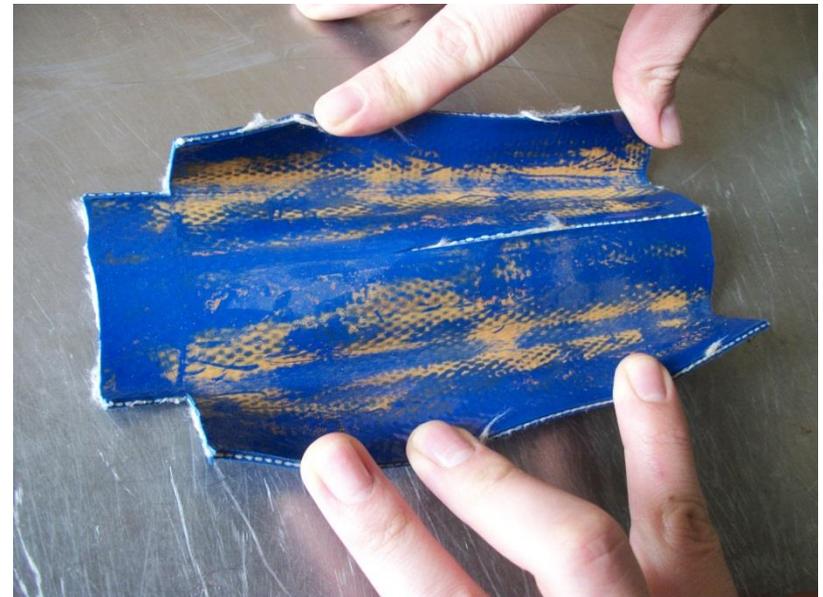


Internal Growth and Corrosion



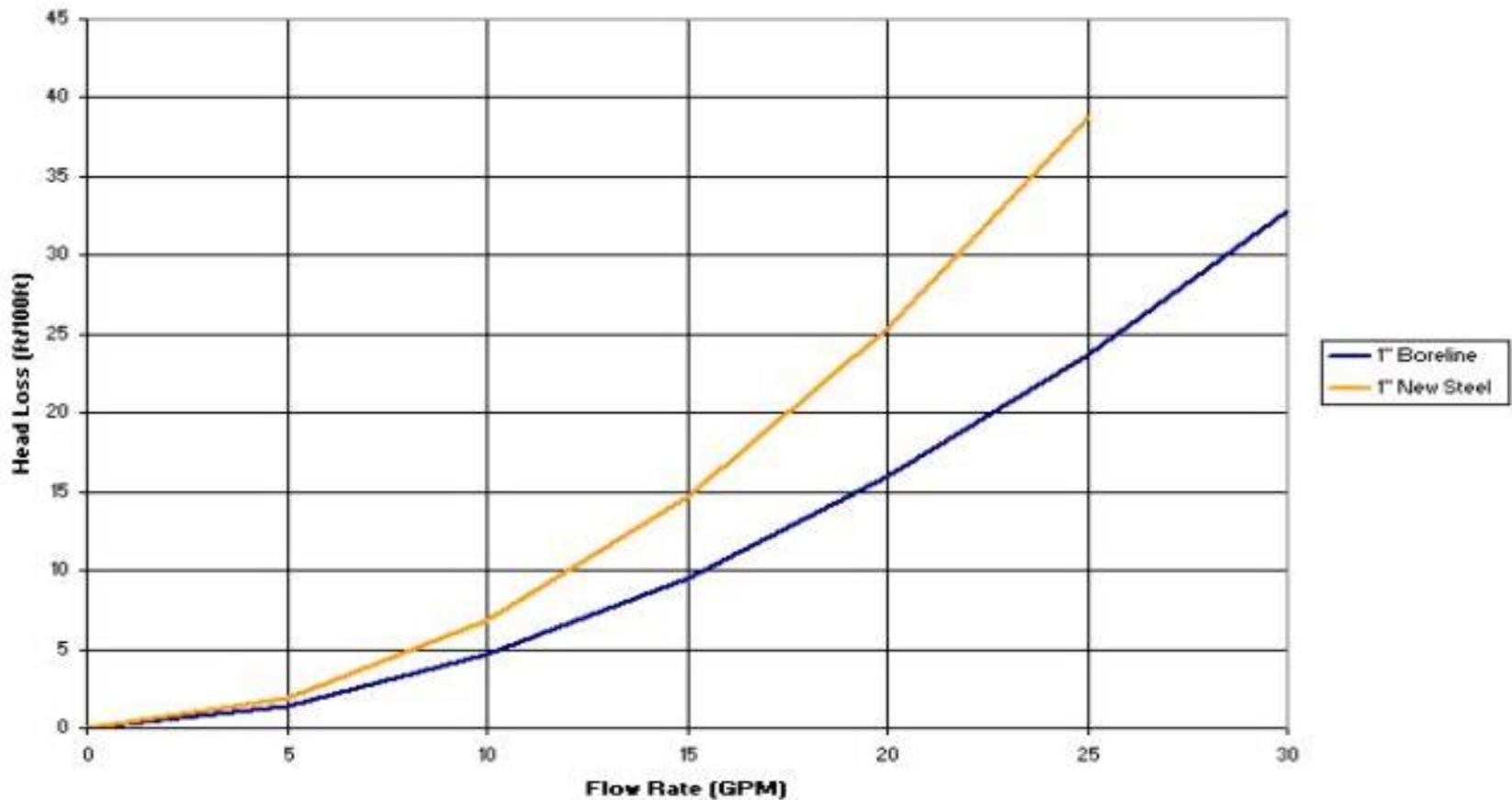
Installed 1994

Removed 2009

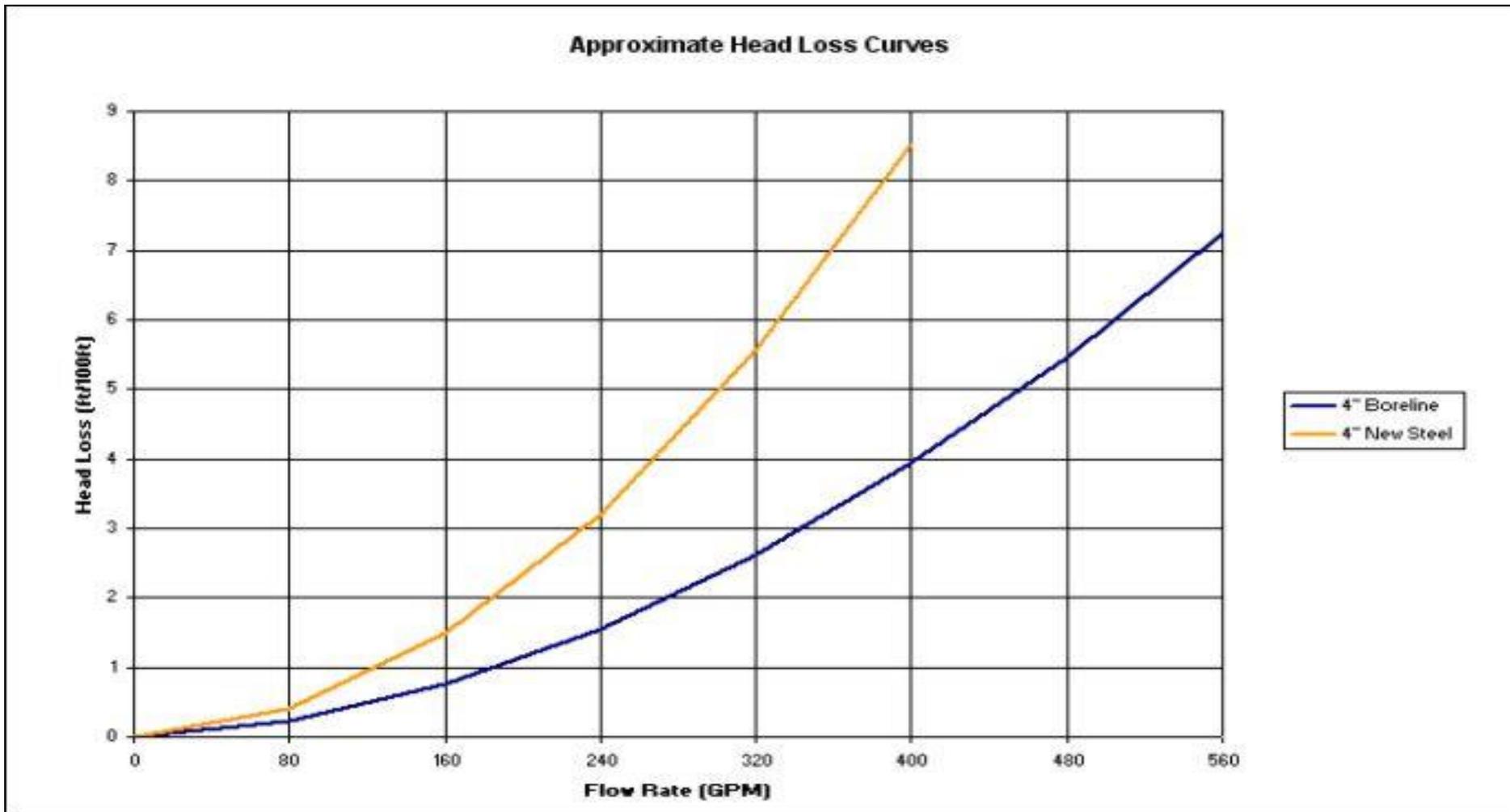


Minimal Head Loss 1"

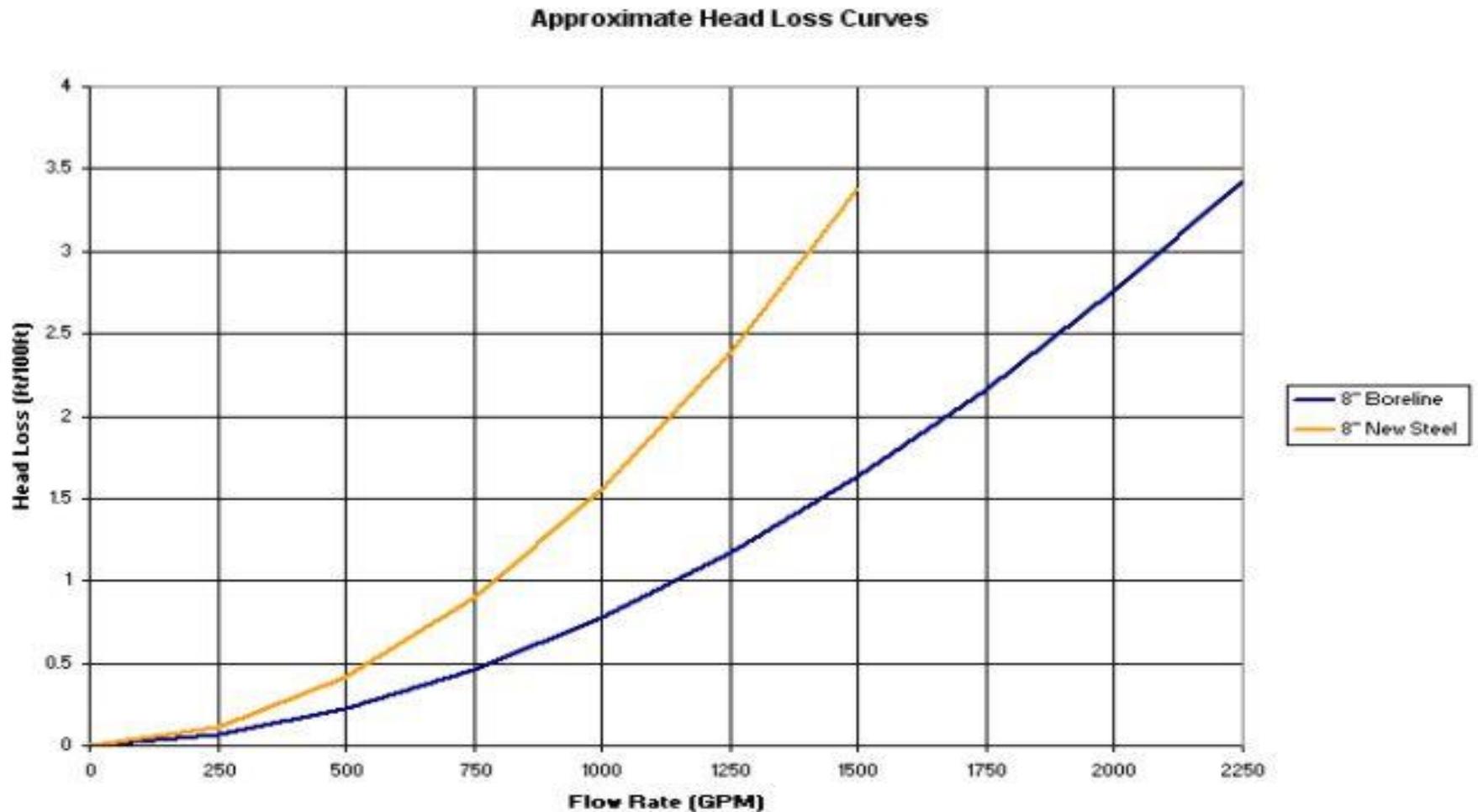
Approximate Head Loss Curves



Minimal Head Loss 4"



Minimal Head Loss 8"



Flexible Drop Pipe

290' x 1", 750' x 3", 180' x 8", assorted, 330' x 6"



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Weight Chart

(Ease of transport, install, and storage)

Nominal Size	1"	1 ½"	2"	3"	4"	5"	6"	8"
Weight of Boreline (pounds per foot)	.14	.22	.37	.64	.94	1.14	1.68	2.3
Weight for 100'	14	22	37	64	94	114	168	230

Tensile Strength

Nominal Size	1	1 ½	2	3	4	5	6	8
Theoretical Tensile Strength (Pounds)	3,000	7,000	9,000	16,000	26,000	33,000	44,000	46,000

PSI & Depth Settings

Nominal Size	1"	1 ½"	2"	3"	4"	5"	6"	8"
Burst Pressure (psi)	980	920	920	850	820	800	800	600
Working Pressure (psi)	500	425	425	350	300	310	310	210
Maximum Depth Setting (feet)	1200	1100	1000	900	800	750	700	400

Fittings



- SS 316, GRN
- Two Rings
- 3 Segment Clamps
- Re-useable
- Field Attachable
- Standard NPT thread

GRN Fitting



Securing the Power Cable



Securing the Power Cable



Installation Techniques

Horizontal



Vertical



HoseSolutions Inc



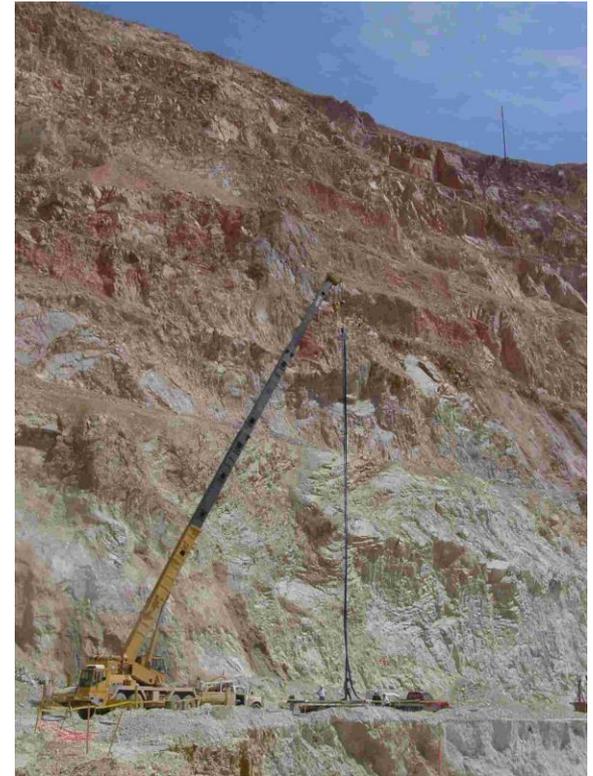
Vertical Installation

What is needed?

- Lifting Clamps
- Pulling Rig



Vertical Installation



Vertical Installation



Horizontal Installation

What is needed?

- Lifting Clamps
- Pulling Rig
- Rolling Wheel



Horizontal Installation



750' x 3" in 8 Minutes



Horizontal Installation 650' of 5"



Spool-O-Matic



Spool-O-Matic



Spools



Fitting Compatibility



Joiners



Check Valve w/Break-off Plug



ROI & Boreline Savings

- Time Savings
- Totally Non-corrosive
- 50 year warranty
- Pipe Replacement Costs
- Longer pump life
- Energy Efficient
- Safety
- Water Quality



Preventative Maintenance

This is now an option!

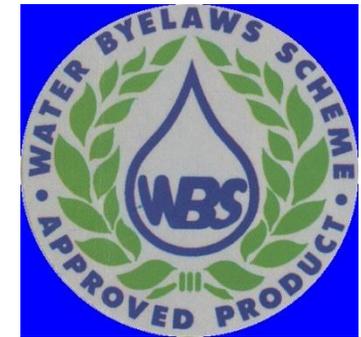


Preventative Maintenance



Approvals

- NSF 61 Potable Water Certification
- MSHA
- WRAS (WRc)
- BS 6920:1996
- AWQC Australian Water Quality Centre
- ISO 9001 - 2000 SABS



Protecting Miners' Safety and Health Since 1978



Thank you

www.hosesolutions.com

