

SPECIFICATIONS ON 2" IPS HMW HDPE 4710 PIPE

PRESSURE DROP VS. FLOWRATE

PIPE MANUFACTURING STANDARDS

- ASTM D3035
- ASTM F714
- ASTM F2619
- NSF/ ANSI 14

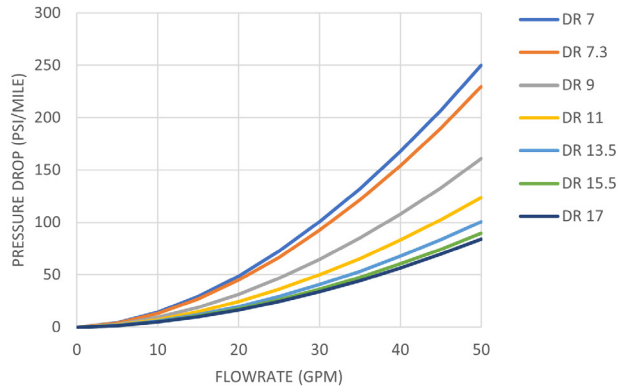
PIPE RESIN STANDARDS

- ASTM D3350

WATER WORKS STANDARDS

- AWWA C901
- AWWA C906
- NSF/ ANSI 61

PRESSURE DROP VS FLOWRATE FOR 2" HDPE PIPE



Temperature Deratings

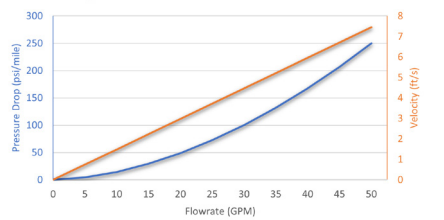
Temperature	Multiplier, F _T
40	1.22
50	1.15
60	1.08
70	1.02
73	1.00
80	0.96
90	0.90
100	0.84
110	0.78
120	0.73
130	0.68
140	0.63

Avg OD, in	DR	7	7.3	9	11	13.5	15.5	17
	Pressure Rating		335 psi	317 psi	250 psi	200 psi	160 psi	138 psi
2.375	Min Wall, in	0.339	0.325	0.264	0.216	0.176	0.153	0.140
	Avg ID, in	1.656	1.685	1.816	1.917	2.002	2.050	2.079
	Weight, ft/lb	0.947	0.915	0.766	0.642	0.533	0.470	0.431

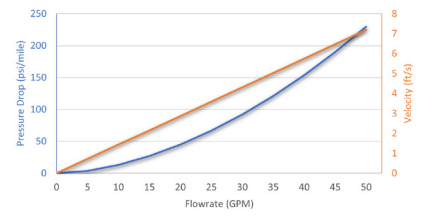
HYDRAULIC PERFORMANCE

*Calculations performed using water as the transfer fluid.

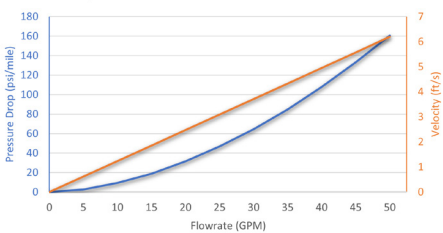
Hydraulic Performance for 2" DR 7



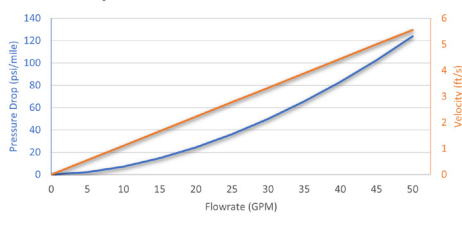
Hydraulic Performance for 2" DR 7.3



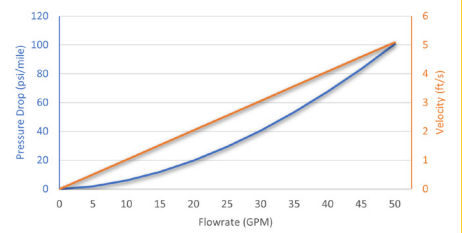
Hydraulic Performance for 2" DR 9



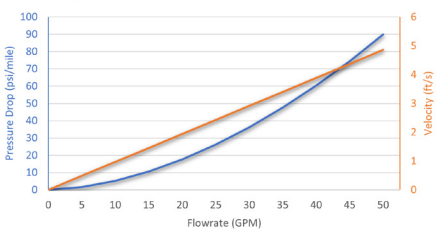
Hydraulic Performance for 2" DR 11



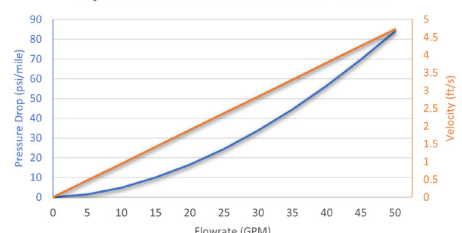
Hydraulic Performance for 2" DR 13.5



Hydraulic Performance for 2" DR 15.5



Hydraulic Performance for 2" DR 17



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SPECIFICATIONS ON 3" IPS HMW HDPE 4710 PIPE

PRESSURE DROP VS. FLOWRATE

PIPE MANUFACTURING STANDARDS

- ASTM D3035
- ASTM F714
- ASTM F2619
- NSF/ ANSI 14

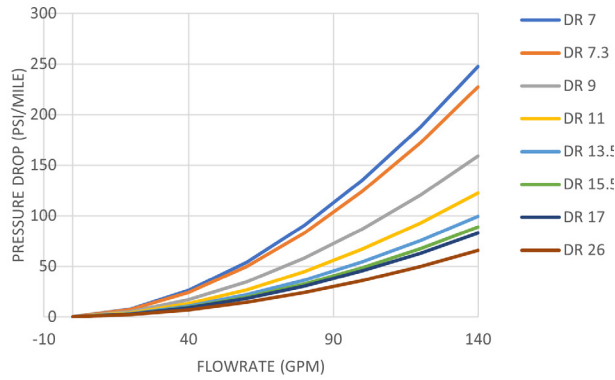
PIPE RESIN STANDARDS

- ASTM D3350

WATER WORKS STANDARDS

- AWWA C901
- AWWA C906
- NSF/ ANSI 61

PRESSURE DROP VS FLOWRATE FOR 3" HDPE PIPE



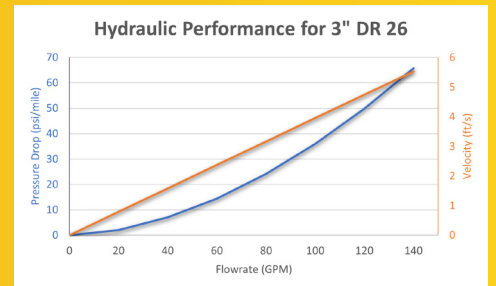
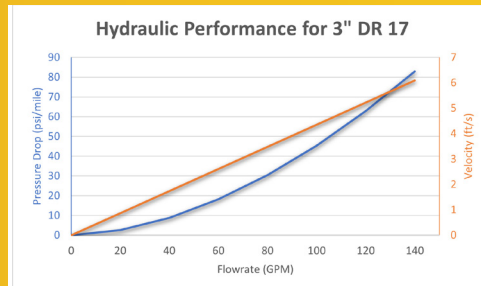
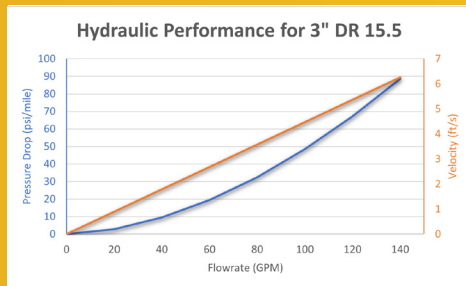
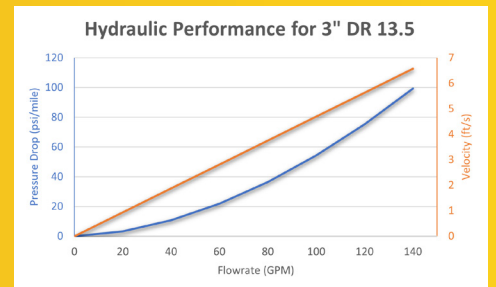
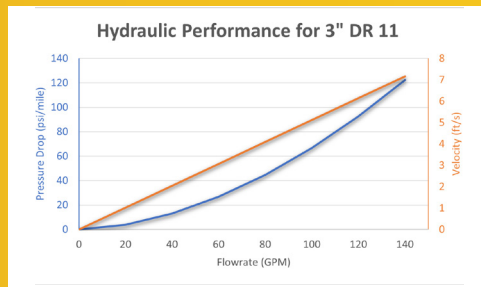
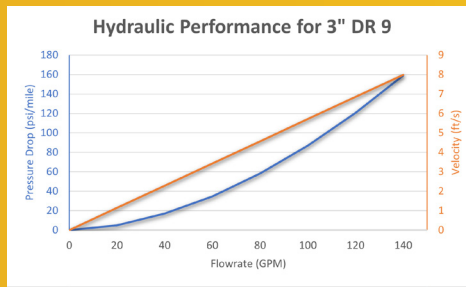
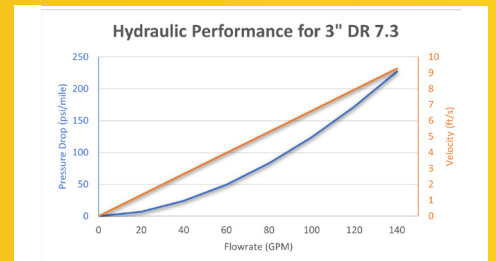
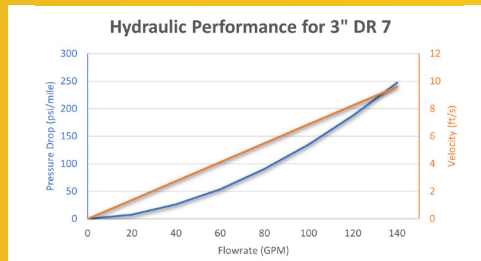
Temperature Deratings

Temperature	Multiplier, F _T
40	1.22
50	1.15
60	1.08
70	1.02
73	1.00
80	0.96
90	0.90
100	0.84
110	0.78
120	0.73
130	0.68
140	0.63

Avg OD, in	DR	7	7.3	9	11	13.5	15.5	17	26
	Pressure Rating	335 psi	317 psi	250 psi	200 psi	160 psi	138 psi	125 psi	80 psi
	Min Wall, in	0.500	0.479	0.389	0.318	0.259	0.226	0.206	0.135
3.5	Avg ID, in	2.440	2.484	2.676	2.825	2.950	3.021	3.064	3.215
	Weight, ft/lb	2.057	1.987	1.663	1.394	1.158	1.020	0.936	0.626

HYDRAULIC PERFORMANCE

*Calculations performed using water as the transfer fluid.



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SPECIFICATIONS ON 4" IPS HMW HDPE 4710 PIPE

PRESSURE DROP VS. FLOWRATE

PIPE MANUFACTURING STANDARDS

- ASTM D3035
- ASTM F714
- ASTM F2619
- NSF/ ANSI 14

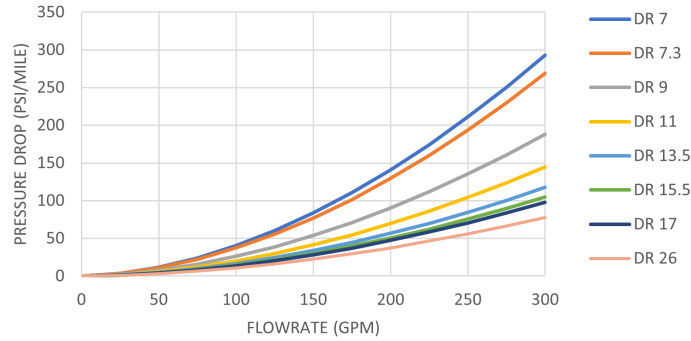
PIPE RESIN STANDARDS

- ASTM D3350

WATER WORKS STANDARDS

- AWWA C901
- AWWA C906
- NSF/ ANSI 61

PRESSURE DROP VS FLOWRATE FOR 4" HDPE PIPE



Temperature Deratings

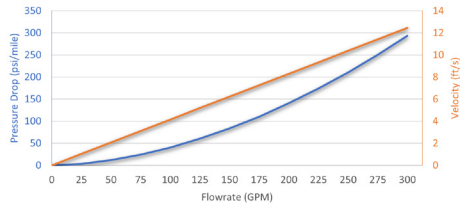
Temperature	Multiplier, F _T
40	1.22
50	1.15
60	1.08
70	1.02
73	1.00
80	0.96
90	0.90
100	0.84
110	0.78
120	0.73
130	0.68
140	0.63

Avg OD, in	DR	7	7.3	9	11	13.5	15.5	17	26
4.5	Pressure Rating	335 psi	317 psi	250 psi	200 psi	160 psi	138 psi	125 psi	80 psi
	Min Wall, in	0.643	0.616	0.500	0.409	0.333	0.290	0.265	0.173
	Avg ID, in	3.137	3.193	3.440	3.633	3.793	3.885	3.939	4.133
	Weight, ft/lb	3.401	3.285	2.750	2.304	1.915	1.686	1.547	1.035

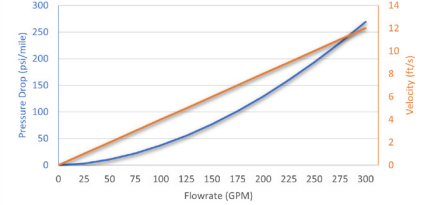
HYDRAULIC PERFORMANCE

*Calculations performed using water as the transfer fluid.

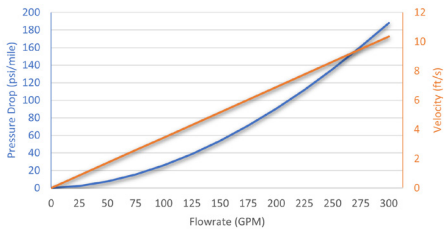
Hydraulic Performance for 4" DR 7



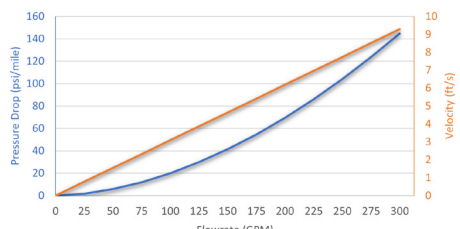
Hydraulic Performance for 4" DR 7.3



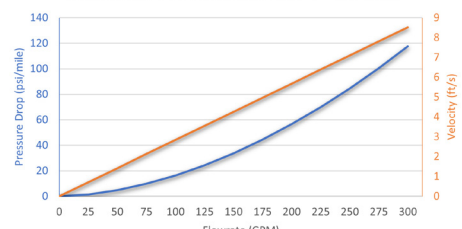
Hydraulic Performance for 4" DR 9



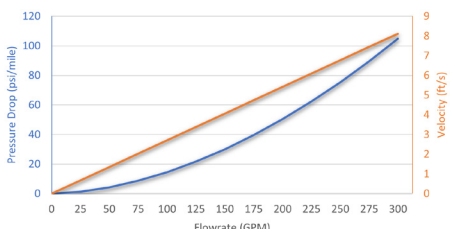
Hydraulic Performance for 4" DR 11



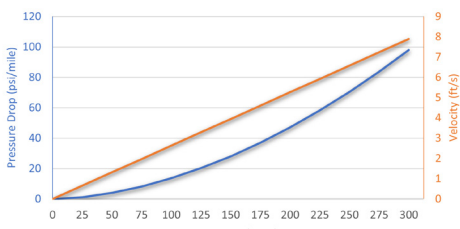
Hydraulic Performance for 4" DR 13.5



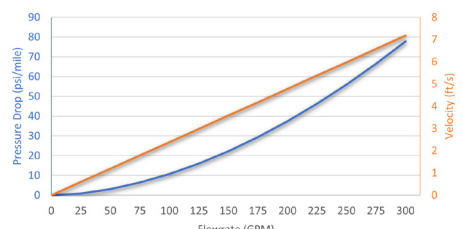
Hydraulic Performance for 4" DR 15.5



Hydraulic Performance for 4" DR 17



Hydraulic Performance for 4" DR 26



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SPECIFICATIONS ON 6" IPS HMW HDPE 4710 PIPE

PRESSURE DROP VS. FLOWRATE

PIPE MANUFACTURING STANDARDS

- ASTM D3035
- ASTM F714
- ASTM F2619
- NSF/ ANSI 14

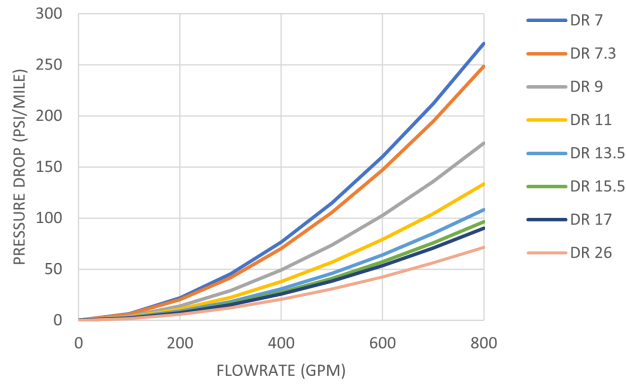
PIPE RESIN STANDARDS

- ASTM D3350

WATER WORKS STANDARDS

- AWWA C901
- AWWA C906
- NSF/ ANSI 61

PRESSURE DROP VS FLOWRATE FOR 6" HDPE PIPE

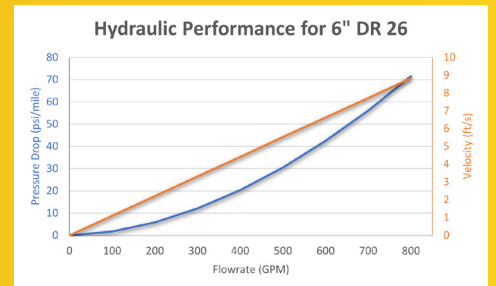
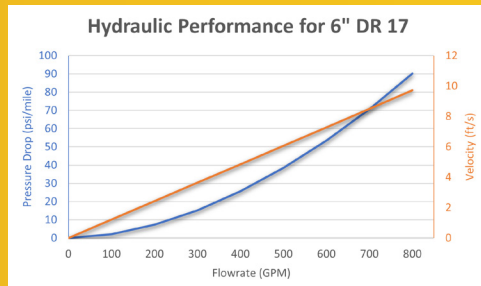
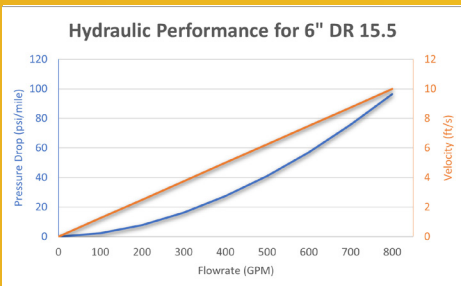
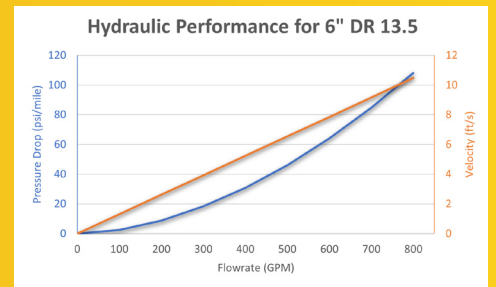
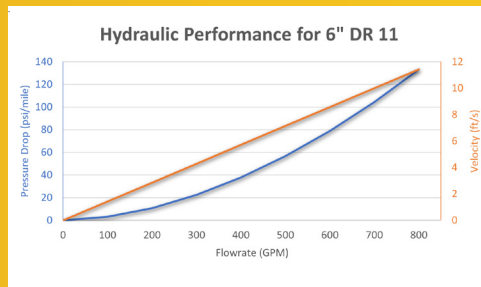
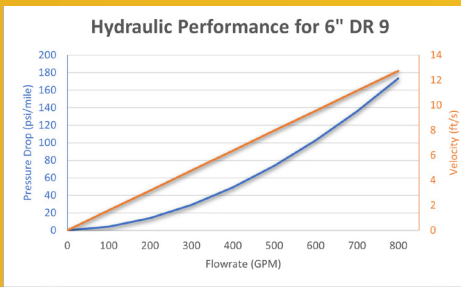
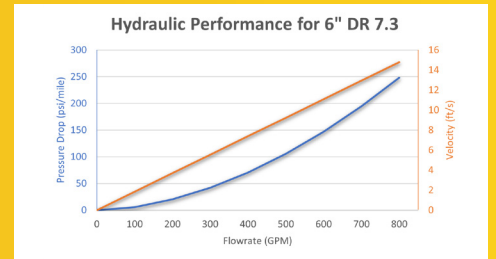
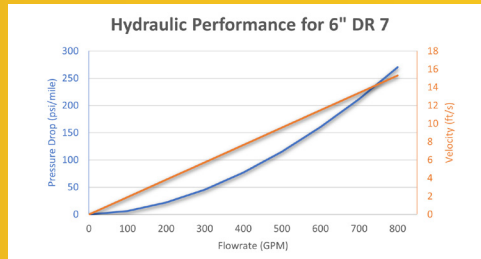


Temperature Deratings	
Temperature	Multiplier, F _T
40	1.22
50	1.15
60	1.08
70	1.02
73	1.00
80	0.96
90	0.90
100	0.84
110	0.78
120	0.73
130	0.68
140	0.63

Avg OD, in	DR	7	7.3	9	11	13.5	15.5	17	26
	Pressure Rating	335 psi	317 psi	250 psi	200 psi	160 psi	138 psi	125 psi	80 psi
6.625	Min Wall, in	0.946	0.908	0.736	0.602	0.491	0.427	0.390	0.255
	Avg ID, in	4.619	4.701	5.064	5.348	5.585	5.719	5.799	6.085
	Weight, ft/lb	7.371	7.120	5.960	4.995	4.150	3.654	3.354	2.243

HYDRAULIC PERFORMANCE

*Calculations performed using water as the transfer fluid.



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SPECIFICATIONS ON 8" IPS HMW HDPE 4710 PIPE

PRESSURE DROP VS. FLOWRATE

PIPE MANUFACTURING STANDARDS

- ASTM D3035
- ASTM F714
- ASTM F2619
- NSF/ ANSI 14

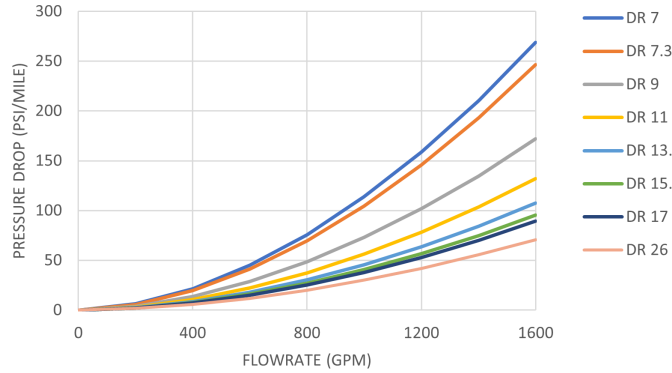
PIPE RESIN STANDARDS

- ASTM D3350

WATER WORKS STANDARDS

- AWWA C901
- AWWA C906
- NSF/ ANSI 61

PRESSURE DROP VS FLOWRATE FOR 8" HDPE PIPE

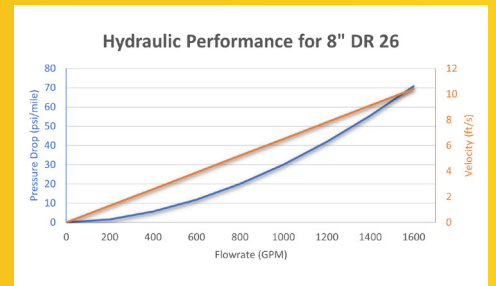
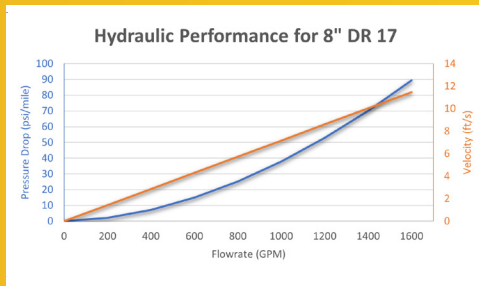
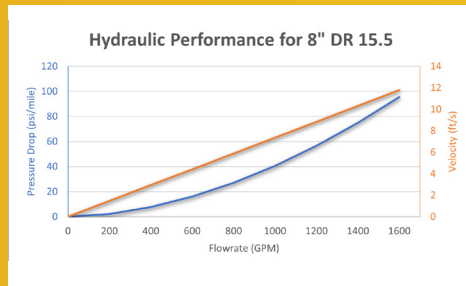
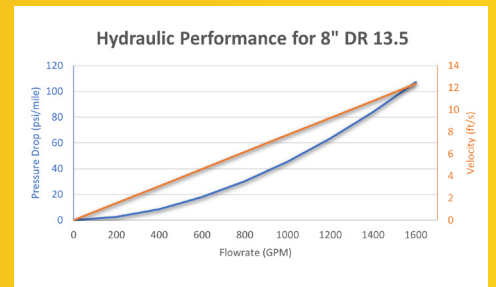
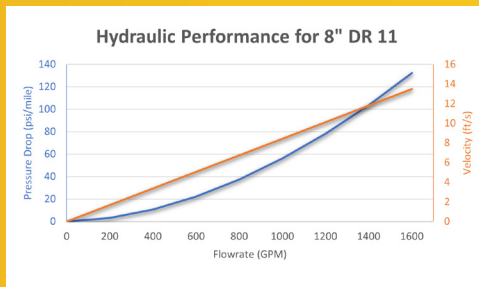
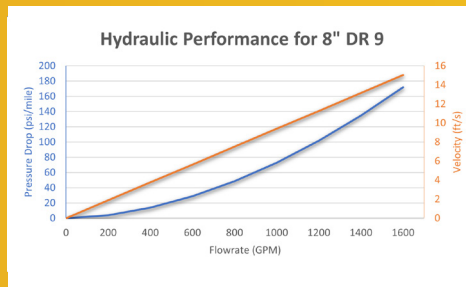
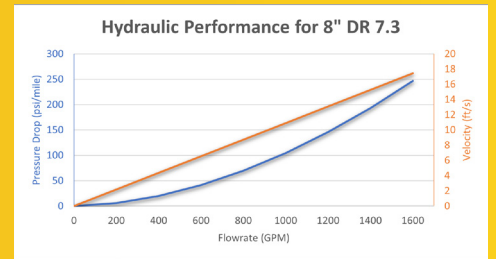
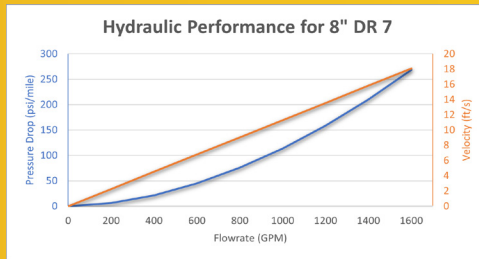


Temperature Deratings	
Temperature	Multiplier, F _T
40	1.22
50	1.15
60	1.08
70	1.02
73	1.00
80	0.96
90	0.90
100	0.84
110	0.78
120	0.73
130	0.68
140	0.63

Avg OD, in	DR	7	7.3	9	11	13.5	15.5	17	26
8.625	Pressure Rating	335 psi	317 psi	250 psi	200 psi	160 psi	138 psi	125 psi	80 psi
	Min Wall, in	1.232	1.182	0.958	0.784	0.639	0.556	0.507	0.332
8.625	Avg ID, in	6.013	6.120	6.593	6.963	7.271	7.445	7.549	7.922
	Weight, ft/lb	12.493	12.067	10.102	8.466	7.034	6.194	5.684	3.802

HYDRAULIC PERFORMANCE

*Calculations performed using water as the transfer fluid.



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SPECIFICATIONS ON 10" IPS HMW HDPE 4710 PIPE

PRESSURE DROP VS. FLOWRATE

PIPE MANUFACTURING STANDARDS

- ASTM D3035
- ASTM F714
- ASTM F2619
- NSF/ ANSI 14

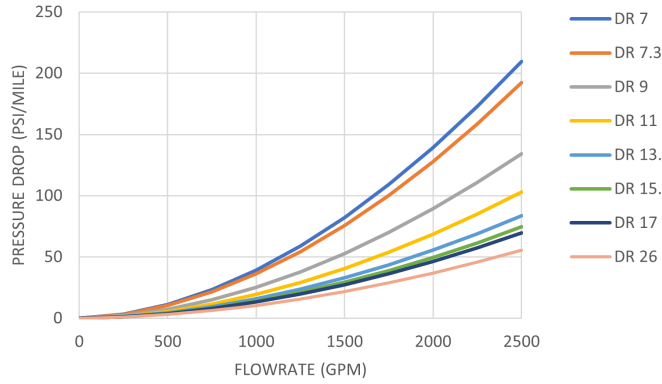
PIPE RESIN STANDARDS

- ASTM D3350

WATER WORKS STANDARDS

- AWWA C901
- AWWA C906
- NSF/ ANSI 61

PRESSURE DROP VS FLOWRATE FOR 10" HDPE PIPE

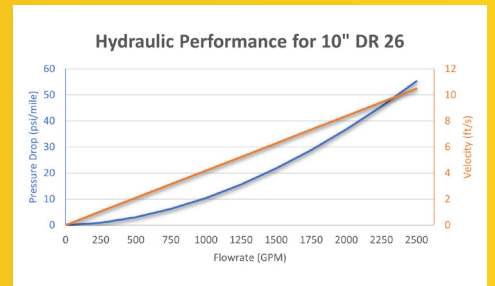
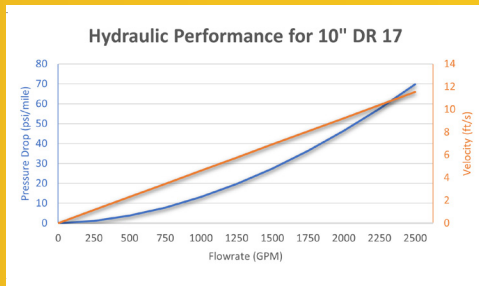
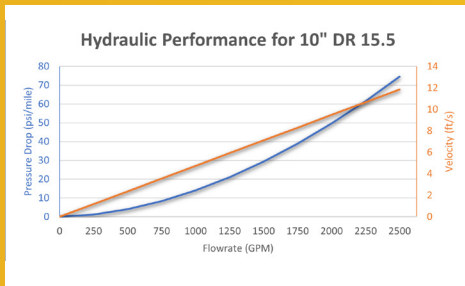
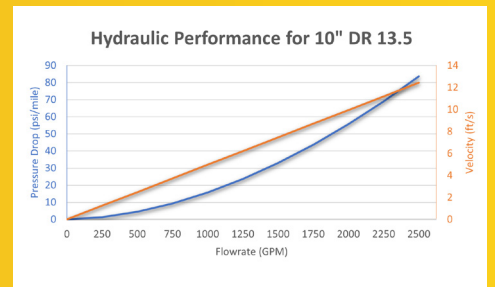
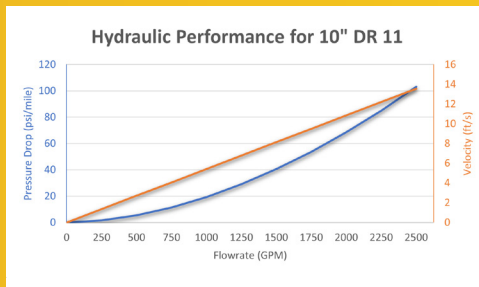
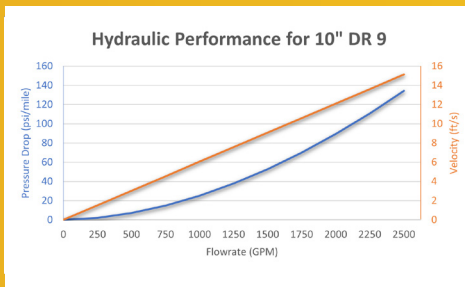
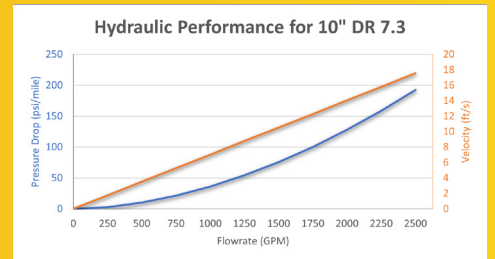
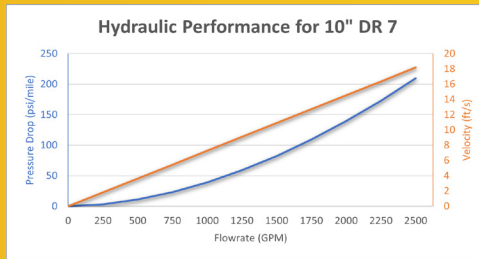


Temperature Deratings	
Temperature	Multiplier, F _T
40	1.22
50	1.15
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73	1.00
80	0.96
90	0.90
100	0.84
110	0.78
120	0.73
130	0.68
140	0.63

Avg OD, in	DR	7	7.3	9	11	13.5	15.5	17	26
	Pressure Rating		335 psi	317 psi	250 psi	200 psi	160 psi	138 psi	125 psi
10.75	Min Wall, in	1.536	1.473	1.194	0.977	0.796	0.694	0.632	0.413
	Avg ID, in	7.494	7.628	8.218	8.678	9.062	9.280	9.409	9.873
	Weight, ft/lb	19.407	18.746	15.693	13.151	10.927	9.622	8.830	5.906

HYDRAULIC PERFORMANCE

*Calculations performed using water as the transfer fluid.



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SPECIFICATIONS ON 12" IPS HMW HDPE 4710 PIPE

PRESSURE DROP VS. FLOWRATE

PIPE MANUFACTURING STANDARDS

- ASTM D3035
- ASTM F714
- ASTM F2619
- NSF/ ANSI 14

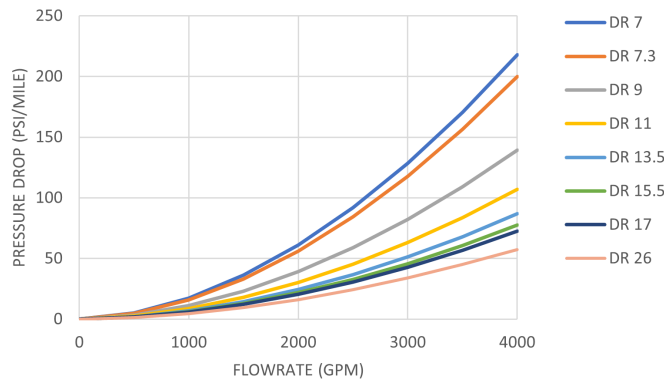
PIPE RESIN STANDARDS

- ASTM D3350

WATER WORKS STANDARDS

- AWWA C901
- AWWA C906
- NSF/ ANSI 61

PRESSURE DROP VS FLOWRATE FOR 12" HDPE PIPE

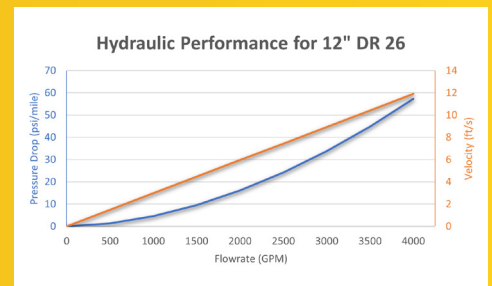
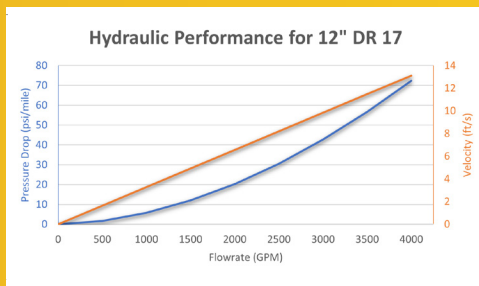
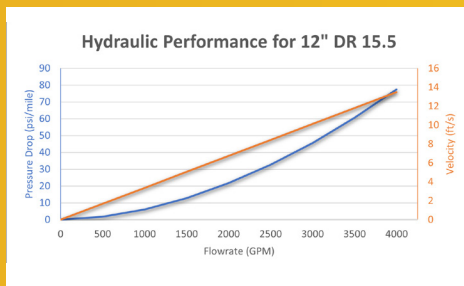
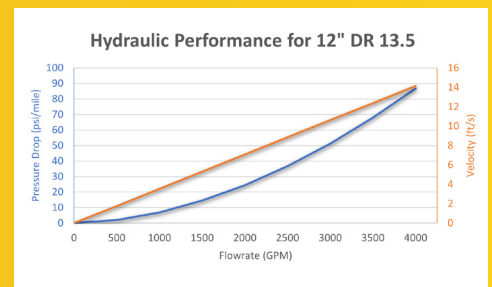
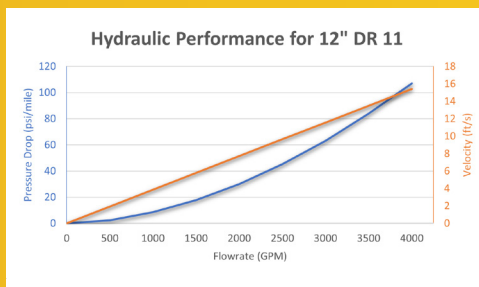
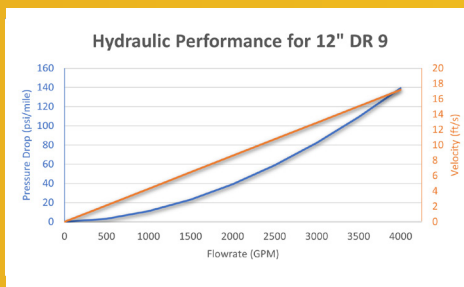
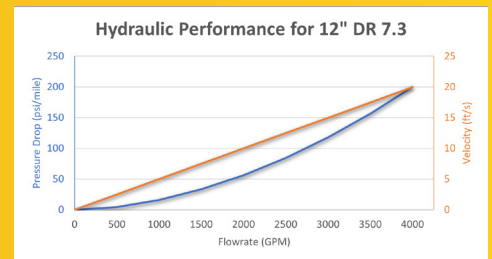
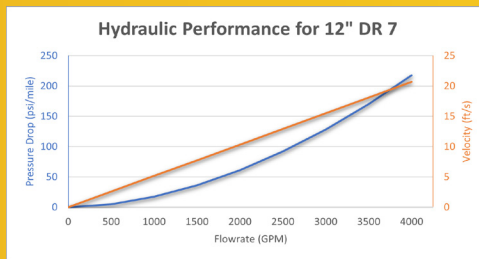


Temperature Deratings	
Temperature	Multiplier, F _T
40	1.22
50	1.15
60	1.08
70	1.02
73	1.00
80	0.96
90	0.90
100	0.84
110	0.78
120	0.73
130	0.68
140	0.63

Avg OD, in	DR	7	7.3	9	11	13.5	15.5	17	26
	Pressure Rating	335 psi	317 psi	250 psi	200 psi	160 psi	138 psi	125 psi	80 psi
12.75	Min Wall, in	1.821	1.747	1.417	1.159	0.944	0.823	0.750	0.490
	Avg ID, in	8.889	9.047	9.747	10.293	10.748	11.006	11.160	11.710
	Weight, ft/lb	27.300	26.370	22.075	18.500	15.372	13.535	12.421	8.308

HYDRAULIC PERFORMANCE

*Calculations performed using water as the transfer fluid.



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SPECIFICATIONS ON 14" IPS HMW HDPE 4710 PIPE

PRESSURE DROP VS. FLOWRATE

PIPE MANUFACTURING STANDARDS

- ASTM D3035
- ASTM F714
- ASTM F2619
- NSF/ ANSI 14

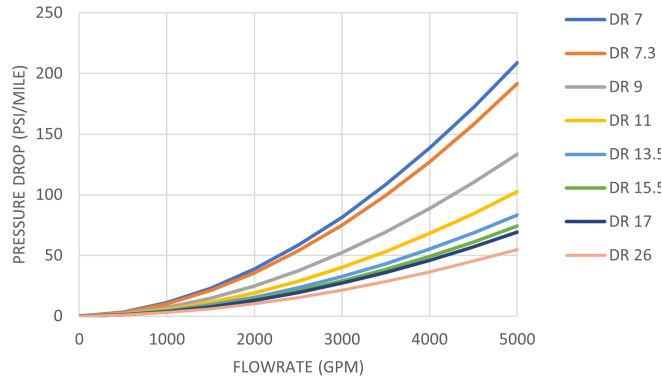
PIPE RESIN STANDARDS

- ASTM D3350

WATER WORKS STANDARDS

- AWWA C901
- AWWA C906
- NSF/ ANSI 61

PRESSURE DROP VS FLOWRATE FOR 14" HDPE PIPE

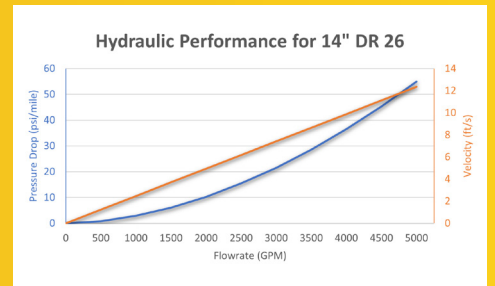
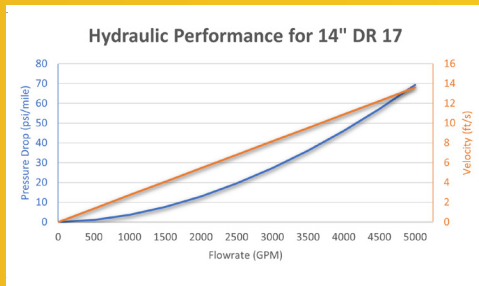
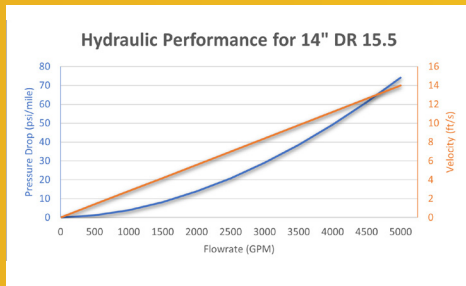
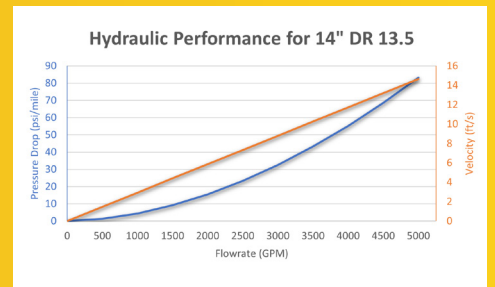
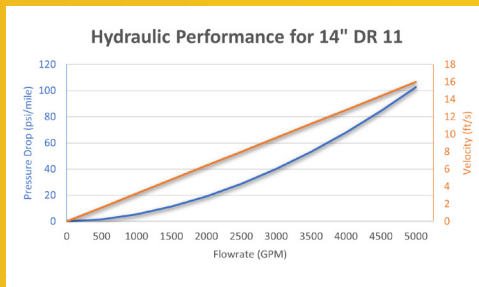
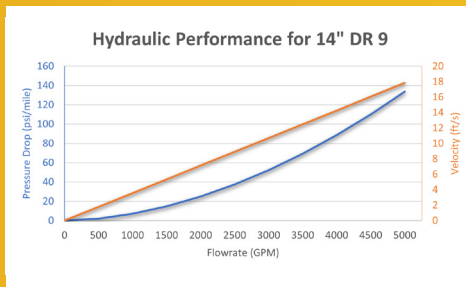
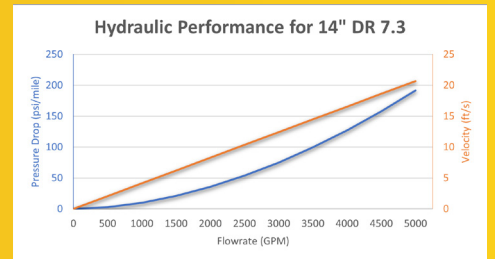
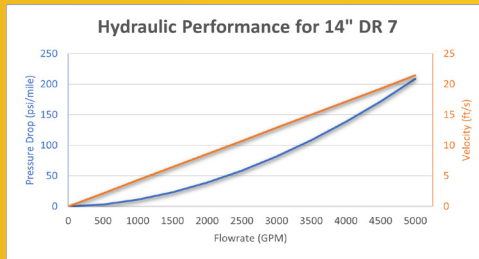


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140	0.63

Avg OD, in	DR	7	7.3	9	11	13.5	15.5	17	26
14	Pressure Rating	335 psi	317 psi	250 psi	200 psi	160 psi	138 psi	125 psi	80 psi
	Min Wall, in	2.000	1.918	1.556	1.273	1.037	0.903	0.824	0.538
14	Avg ID, in	9.760	9.934	10.702	11.302	11.801	12.085	12.254	12.858
	Weight, ft/lb	32.915	31.794	26.616	22.305	18.534	16.320	14.976	10.017

HYDRAULIC PERFORMANCE

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SPECIFICATIONS ON 16" IPS HMW HDPE 4710 PIPE

PRESSURE DROP VS. FLOWRATE

PIPE MANUFACTURING STANDARDS

- ASTM D3035
- ASTM F714
- ASTM F2619
- NSF/ ANSI 14

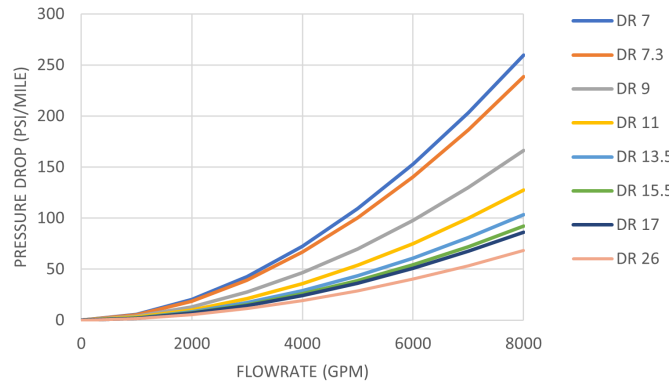
PIPE RESIN STANDARDS

- ASTM D3350

WATER WORKS STANDARDS

- AWWA C901
- AWWA C906
- NSF/ ANSI 61

PRESSURE DROP VS FLOWRATE FOR 16" HDPE PIPE

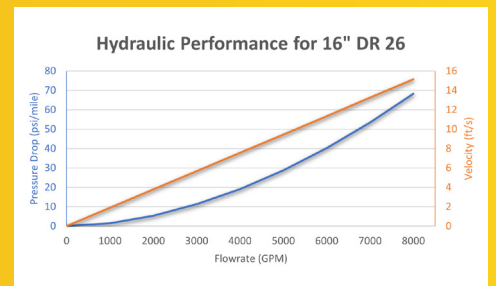
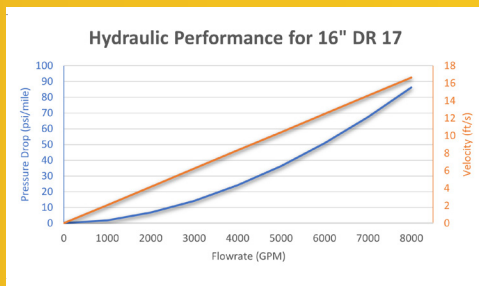
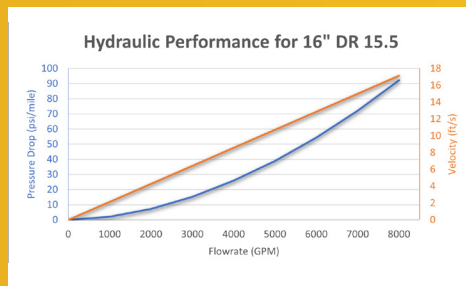
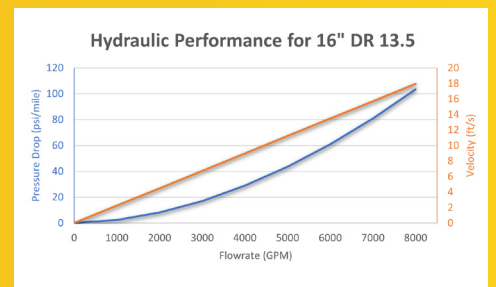
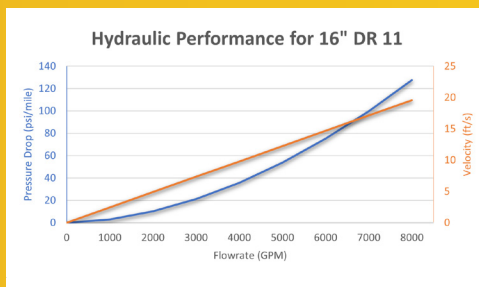
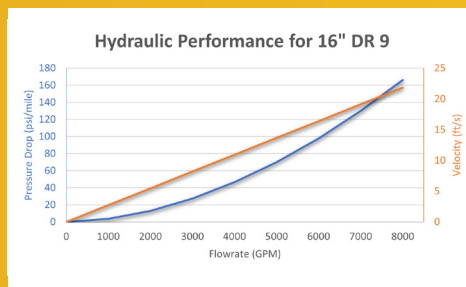
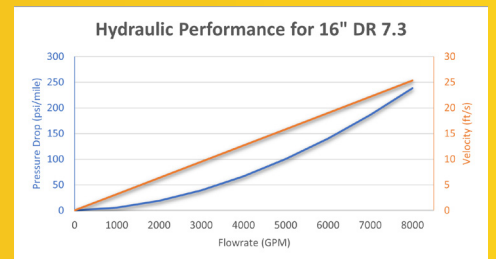
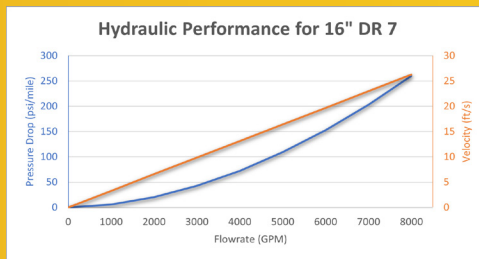


Temperature Deratings	
Temperature	Multiplier, F _T
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90	0.90
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110	0.78
120	0.73
130	0.68
140	0.63

Avg OD, in	DR	7	7.3	9	11	13.5	15.5	17	26
16	Pressure Rating	335 psi	317 psi	250 psi	200 psi	160 psi	138 psi	125 psi	80 psi
	Min Wall, in	2.286	2.192	1.778	1.455	1.185	1.032	0.941	0.615
16	Avg ID, in	11.154	11.353	12.231	12.916	13.487	13.812	14.005	14.695
	Weight, ft/lb	42.991	41.527	34.764	29.133	24.207	21.315	19.560	13.084

HYDRAULIC PERFORMANCE

*Calculations performed using water as the transfer fluid.



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