

POLYETHYLENE PIPE & FITTINGS

PIPE



	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
NSF (100#)	\$ 22.00	27.00	34.00	62.00	85.00	170.00
NSF (160#)	→	38.00	62.00	108.00		

Pipe is priced per 100'. Coil length 100' or 300'.
 NSF = National Sanitation Foundation approved for potable water.

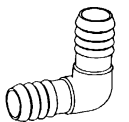
PLASTIC

INSERT FITTINGS

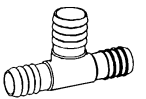
	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
Coupling	\$.73	.88	.92	1.37	1.62	3.05
90° Ell	1.44	1.76	1.95	2.18	2.57	3.59
Tee	1.58	1.71	2.22	3.47	3.94	7.77
Male Adapter	.72	.88	.91	1.44	1.62	3.10
Female Adapter	3.21	3.49	3.87	4.75	6.03	7.66
Reducers		1.19	1.65	2.52	3.05	4.16
Male Adapter Reducing		2.28	2.38	2.70	4.34	5.53
90° Ell Reducing		1.67	2.05			
Combo 90° (In x Fip) (all)	1.62	1.76	2.26	3.35	3.82	6.44
Male 90° Ell	1.82	2.53	3.31	4.40	5.85	9.24
Tee Reducing		1.93	3.69	3.85	5.34	7.96
Combo Tee (In x In x Fip) (all)	1.71	2.57	3.03	4.19	7.73	9.59
Male Tee	2.20	3.00	3.85	5.00	5.59	8.70
Plug	1.31	1.37	1.84	2.33	2.55	4.48
Insert x PVC Slip	1.84	2.21	2.34	3.71	4.12	7.62
Cross	3.05	4.13	5.13			



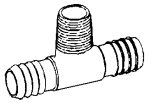
Coupling



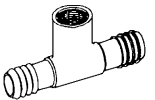
90° Ell



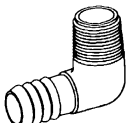
Tee



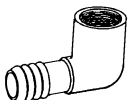
Male Tee



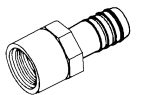
Combo Tee



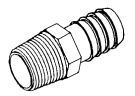
Male 90° Ell



Combo 90° Ell



Female Adapter



Male Adapter



Plug

STAINLESS STEEL

	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
Male Adapter	5.18	5.60	9.15	10.60	16.15	21.85
Coupling	4.15	5.10	9.75	11.35	18.05	25.15
Female Adapter		7.80	11.90	15.55	21.15	27.75

STEEL

	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
Coupling	1.48	2.05	2.59	4.55	5.75	7.65
Male Adapter	1.58	1.85	2.85	3.75	4.85	7.85
Female Adapter	3.05	3.70	5.25	9.65	9.95	



Pressure Drop In Polyethylene Pipe - Per 100 Feet							
↙ Desired flow rate		Pounds / Sq. Inch				Desired flow rate →	
GPM	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	GPM
1	.56	.15					1
2	1.84	.48	.15	.04			2
3	3.71	.98	.31	.08	.04		3
4	6.13	1.61	.51	.14	.07		4
5	9.04	2.38	.76	.21	.10		5
6	12.50	3.28	1.04	.28	.14	.04	6
8	20.83	5.42	1.73	.47	.23	.07	8
10	30.95	8.08	2.56	.69	.33	.10	10
15	↘	16.58	5.25	1.42	.68	.21	15
20		↘	8.69	2.36	1.13	.34	20
25			12.92	3.50	1.67	.51	25
30			↘	4.82	2.31	.70	30
35				6.36	3.03	.92	35
40				8.08	3.84	1.17	40
45				10.02	4.76	1.44	45
50				↘	5.76	1.73	50
60				<i>Use Next Pipe Size</i>		7.97	60
70					↘	3.25	70
80						4.02	80
90						4.97	90
100						6.00	100
125						8.98	125

1 Foot of Head = .433 #/sq.in 2.31 Feet of Head = 1 #/sq.in
 1 Gal of fresh water = 8.33 lb. 1 Cubic Foot of water = 7.48 Gal
 Gallons held in 100' of pipe = 4.08 x {Diameter(inches) of pipe}²
 Weight of water in 100' of pipe = 34.0 x {Diameter(inches) of pipe}²

DECREASING THE PIPE SIZE DOESN'T INCREASE WATER PRESSURE.

The **Static-Head** of a water system equals the height difference between the water source and the water outlet. This is the pressure you read on a gauge at the water outlet. The **Dynamic-Head** of a water system equals the **Static-Head** minus the **Friction-Loss** in the piping, fittings, and valves. This is the apparent water pressure you see as the water is flowing from the water outlet.

A 1000' run of Poly pipe from a water tank 100' higher than the house will have a **Static-Head** of 43psi.

The **Dynamic-Head** will be less than **10psi @ 6gpm** for 3/4" pipe & **33psi @ 6gpm** for 1" pipe.

For low pressure situations, you want large diameter pipe with few bends and full opening valves.