

FRICITION LOSS METRIC POLY PIPE BLUE LINE

Polyethylene Pipe PN12.5 Series 1 Based on AS 4130-2009																	
Poly PN12.5		20mm Nom. Bore 16.65mm ID		25mm Nom. Bore 21.05mm ID		32mm Nom. Bore 26.95mm ID		40mm Nom. Bore 33.80mm ID		50mm Nom. Bore 42.4mm ID		63mm Nom. Bore 53.5mm ID		75mm Nom. Bore 63.7mm ID		90mm Nom. Bore 76.5mm ID	
FLOW RATE L/SEC	FLOW RATE L/MIN	Velocity m/s	Head Loss m/100m	Velocity m/s	Head Loss m/100m	Velocity m/s	Head Loss m/100m	Velocity m/s	Head Loss m/100m	Velocity m/s	Head Loss m/100m	Velocity m/s	Head Loss m/100m	Velocity m/s	Head Loss m/100m	Velocity m/s	Head Loss m/100m
0.04	3.6	0.18	0.30	0.11	0.1												
0.06	3.6	0.28	0.93	0.17	0.31	0.11	0.06										
0.08	4.8	0.37	1.52	0.23	0.5	0.14	0.16										
0.10	6	0.46	2.23	0.29	0.74	0.18	0.23	0.11	0.08								
0.20	12	0.92	7.43	0.57	2.44	0.35	0.76	0.22	0.26	0.14	0.09						
0.30	18	1.38	15.14	0.86	4.96	0.53	1.53	0.33	0.52	0.21	0.18	0.13	0.06				
0.40	24	1.84	25.16	1.15	8.21	0.7	2.53	0.45	0.86	0.28	0.3	0.18	0.1	0.13	0.04		
0.50	30	2.30	37.37	1.44	12.18	0.88	3.75	0.56	1.28	0.35	0.44	0.22	0.15	0.16	0.06	0.11	0.03
0.60	36	2.76	51.69	1.72	16.82	1.05	5.17	0.67	1.76	0.43	0.6	0.27	0.2	0.19	0.09	0.13	0.04
0.70	42	3.21	68.05	2.01	22.11	1.23	6.79	0.78	2.3	0.5	0.79	0.31	0.26	0.22	0.11	0.15	0.05
0.80	48	3.67	86.41	2.3	28.04	1.4	8.6	0.89	2.92	0.57	1	0.36	0.33	0.25	0.14	0.17	0.06
0.90	54	4.13	106.73	2.59	34.6	1.58	10.59	1	3.59	0.64	1.22	0.4	0.41	0.28	0.18	0.2	0.07
1.00	60	4.59	128.97	2.87	41.77	1.75	12.78	1.11	4.33	0.71	1.47	0.45	0.49	0.31	0.21	0.22	0.09
1.20	72	5.51	179.10	3.45	57.89	2.1	17.68	1.34	5.98	0.85	2.03	0.54	0.68	0.38	0.29	0.26	0.12
1.40	84	6.43	236.61	4.02	76.36	2.45	23.29	1.56	7.86	0.99	2.67	0.63	0.89	0.44	0.38	0.3	0.16
1.50	90	6.89	268.08	4.31	56.45	2.63	26.35	1.67	8.89	1.06	3.02	0.67	1.01	0.47	0.43	0.33	0.18
1.60	96			4.6	97.1	2.8	29.57	1.78	9.98	1.14	3.39	0.72	1.13	0.5	0.48	0.35	0.2
1.80	108			5.17	120.9	3.16	36.53	2.01	12.31	1.28	4.18	0.81	1.39	0.57	0.6	0.39	0.25
2.00	120			5.75	145.29	3.51	44.15	2.23	14.87	1.42	5.04	0.9	1.68	0.63	0.72	0.44	0.3
2.50	150			7.18	217.73	4.38	66	2.79	22.18	1.77	7.51	1.12	2.5	0.79	1.07	0.54	0.44
3.00	180					5.26	91.77	3.34	30.79	2.13	10.41	1.34	3.46	0.94	1.48	0.65	0.61
3.50	210					6.14	121.35	3.9	40.66	2.48	13.73	1.57	4.55	1.1	1.94	0.76	0.81
4.00	240							4.46	51.76	2.84	17.46	1.79	5.78	1.26	2.47	0.87	1.03
4.50	270							5.02	64.07	3.19	21.59	2.02	7.14	1.41	3.05	0.98	1.27
5.00	300							5.57	77.57	3.55	26.12	2.24	8.63	1.57	3.68	1.09	1.53
5.50	330							6.13	92.24	3.9	31.03	2.47	10.25	1.73	4.37	1.2	1.81
6.00	360							6.69	108.06	4.26	36.33	2.69	11.99	1.89	5.11	1.31	2.12
6.50	390									4.61	42	2.91	13.85	2.04	5.9	1.42	2.45
7.00	420									4.97	48.05	3.14	15.84	2.2	6.74	1.52	2.79
7.50	450									5.32	54.46	3.36	17.94	2.36	7.63	1.63	3.16
8.00	480									5.68	61.25	3.59	20.17	2.51	8.58	1.74	3.55
8.50	510									6.03	68.39	3.81	22.51	2.67	9.57	1.85	3.96
9.00	540									6.39	75.9	4.03	24.97	2.83	10.61	1.96	4.39
9.5	570									6.74	83.77	4.26	27.54	2.99	11.7	2.07	4.84
10.00	600											4.48	30.23	3.14	12.84	2.18	5.31

DISCLAIMER: The information and data provided is estimated and is a guide only, and it is the sole and entire responsibility of the user to ensure that it is accurate and suitable for their application.