

Head Loss

metres per 100 metres

Nominal Pipe Diameter (OD for Metric and ID for Imperial) - Polyethylene Pipe – Type 50 – Class 6 ('B' class)														PVC	
l/sec	25mm	1"	32mm	1½"	40mm	1½"	50mm	2"	63mm	2½"	75mm	3"	90mm	100mm	125mm
0.2	2.05	1.01	0.60	0.39	0.20	0.14	0.06	0.03	0.02	0.01	0.01	0.00	0.00	0.00	0.00
0.4	7.39	3.64	2.15	1.41	0.70	0.50	0.23	0.12	0.07	0.04	0.03	0.02	0.01	0.01	0.00
0.6	15.66	7.72	4.56	3.00	1.49	1.06	0.49	0.26	0.15	0.08	0.06	0.03	0.03	0.02	0.01
0.8	26.88	13.15	7.76	5.10	2.54	1.81	0.83	0.44	0.26	0.14	0.11	0.06	0.04	0.03	0.01
1.0	40.33	19.88	11.74	7.72	3.85	2.74	1.26	0.67	0.40	0.22	0.17	0.08	0.07	0.04	0.01
1.2	56.54	27.87	16.45	10.82	5.39	3.84	1.77	0.93	0.56	0.31	0.23	0.12	0.09	0.06	0.02
1.4	75.22	37.08	21.89	14.39	7.17	5.11	2.35	1.24	0.74	0.41	0.31	0.16	0.12	0.07	0.02
1.6	96.33	47.48	28.04	18.43	9.19	6.55	3.01	1.59	0.95	0.52	0.40	0.20	0.16	0.09	0.03
1.8		59.06	34.87	22.93	11.43	8.15	3.74	1.98	1.18	0.65	0.49	0.25	0.20	0.12	0.04
2.0		71.79	42.39	27.87	13.89	9.90	4.55	2.41	1.43	0.79	0.60	0.30	0.24	0.14	0.05
2.5			64.09	42.13	21.00	14.97	6.88	3.64	2.17	1.19	0.91	0.46	0.36	0.22	0.07
3.0			89.84	59.06	29.44	20.99	9.65	5.10	3.04	1.67	1.27	0.64	0.51	0.30	0.10
3.5				78.58	39.17	27.93	12.83	6.78	4.04	2.22	1.69	0.85	0.68	0.40	0.13
4.0					50.16	35.76	16.44	8.69	5.18	2.85	2.16	1.09	0.87	0.51	0.17
4.5					62.39	44.48	20.44	10.81	6.44	3.54	2.69	1.36	1.08	0.64	0.21
5.0					75.80	54.07	24.85	13.14	7.82	4.30	3.27	1.65	1.32	0.78	0.25
5.5					87.91	64.51	29.65	15.67	9.34	5.14	3.90	1.97	1.57	0.93	0.30
6.0						75.80	34.84	18.41	10.97	6.03	4.59	2.31	1.84	1.09	0.36
6.5						87.91	40.40	21.36	12.72	7.00	5.32	2.68	2.14	1.26	0.41
7.0							46.35	24.50	14.59	8.03	6.10	3.08	2.45	1.45	0.47

Pressure Conversion

metres	kPa	feet	PSI	metres	kPa	feet	PSI	metres	kPa	feet	PSI	metres	kPa	feet	PSI
5	49.03	16.42	7.11	10	98.1	32.84	14.22	20	196	65.7	28.4	45	441	147.8	64.0
5.1	45.96	16.75	7.25	10.2	100.0	33.50	14.51	20.5	201	67.3	29.2	46	451	151.1	65.4
5.2	46.86	17.08	7.40	10.4	102.0	34.15	14.79	21	206	69.0	29.9	47	461	154.4	66.8
5.3	47.76	17.41	7.54	10.6	104.0	34.81	15.08	21.5	211	70.6	30.6	48	471	157.6	68.3
5.4	48.66	17.73	7.68	10.8	105.9	35.47	15.36	22	216	72.3	31.3	49	481	160.9	69.7
5.5	49.56	18.06	7.82	11	107.9	36.12	15.65	22.5	221	73.9	32.0	50	490	164.2	71.1
5.6	50.46	18.39	7.96	11.2	109.8	36.78	15.93	23	226	75.5	32.7	51	500	167.5	72.5
5.7	51.37	18.72	8.11	11.4	111.8	37.44	16.21	23.5	230	77.2	33.4	52	510	170.8	74.0
5.8	52.27	19.05	8.25	11.6	113.8	38.10	16.50	24	235	78.8	34.1	53	520	174.1	75.4
5.9	53.17	19.38	8.39	11.8	115.7	38.75	16.78	24.5	240	80.5	34.8	54	530	177.3	76.8
6	54.07	19.70	8.53	12	117.7	39.41	17.07	25	245	82.1	35.6	55	539	180.6	78.2
6.1	54.97	20.03	8.68	12.2	119.6	40.07	17.35	25.5	250	83.7	36.3	56	549	183.9	79.6
6.2	55.87	20.36	8.82	12.4	121.6	40.72	17.64	26	255	85.4	37.0	57	559	187.2	81.1
6.3	56.77	20.69	8.96	12.6	123.6	41.38	17.92	26.5	260	87.0	37.7	58	569	190.5	82.5
6.4	57.67	21.02	9.10	12.8	125.5	42.04	18.21	27	265	88.7	38.4	59	579	193.8	83.9
6.5	58.57	21.35	9.24	13	127.5	42.69	18.49	27.5	270	90.3	39.1	60	588	197.0	85.3
6.6	59.48	21.67	9.39	13.2	129.5	43.35	18.77	28	275	92.0	39.8	61	598	200.3	86.8
6.7	60.38	22.00	9.53	13.4	131.4	44.01	19.06	28.5	279	93.6	40.5	62	608	203.6	88.2
6.8	61.28	22.33	9.67	13.6	133.4	44.66	19.34	29	284	95.2	41.2	63	618	206.9	89.6
6.9	62.18	22.66	9.81	13.8	135.3	45.32	19.63	29.5	289	96.9	42.0	64	628	210.2	91.0
7	63.08	22.99	9.96	14	137.3	45.98	19.91	30	294	98.5	42.7	65	637	213.5	92.4
7.1	63.98	23.32	10.10	14.2	139.3	46.63	20.20	30.5	299	100.2	43.4	66	647	216.7	93.9
7.2	64.88	23.65	10.24	14.4	141.2	47.29	20.48	31	304	101.8	44.1	67	657	220.0	95.3
7.3	65.78	23.97	10.38	14.6	143.2	47.95	20.77	31.5	309	103.4	44.8	68	667	223.3	96.7
7.4	66.68	24.30	10.53	14.8	145.1	48.60	21.05	32	314	105.1	45.5	69	677	226.6	98.1
7.5	67.59	24.63	10.67	15	147.1	49.26	21.33	32.5	319	106.7	46.2	70	686	229.9	99.6
7.6	68.49	24.96	10.81	15.2	149.1	49.92	21.62	33	324	108.4	46.9	71	696	233.2	101.0
7.7	69.39	25.29	10.95	15.4	151.0	50.57	21.90	33.5	329	110.0	47.6	72	706	236.5	102.4
7.8	70.29	25.62	11.09	15.6	153.0	51.23	22.19	34	333	111.7	48.4	73	716	239.7	103.8
7.9	71.19	25.94	11.24	15.8	154.9	51.89	22.47	34.5	338	113.3	49.1	74	726	243.0	105.3
8	72.09	26.27	11.38	16	156.9	52.55	22.76	35	343	114.9	49.8	75	736	246.3	106.7
8.1	72.99	26.60	11.52	16.2	158.9	53.20	23.04	35.5	348	116.6	50.5	76	745	249.6	108.1
8.2	73.89	26.93	11.66	16.4	160.8	53.86	23.33	36	353	118.2	51.2	77	755	252.9	109.5
8.3	74.80	27.26	11.81	16.6	162.8	54.52	23.61	36.5	358	119.9	51.9	78	765	256.2	110.9
8.4	75.70	27.59	11.95	16.8	164.8	55.17	23.89	37	363	121.5	52.6	79	775	259.4	112.4
8.5	76.60	27.91	12.09	17	166.7	55.83	24.18	37.5	368	123.2	53.3	80	785	262.7	113.8
8.6	77.50	28.24	12.23	17.2	168.7	56.49	24.46	38	373	124.8	54.0	81	794	266.0	115.2
8.7	78.40	28.57	12.37	17.4	170.6	57.14	24.75	38.5	378	126.4	54.8	82	804	269.3	116.6
8.8	79.30	28.90	12.52	17.6	172.6	57.80	25.03	39	382	128.1	55.5	83	814	272.6	118.1
8.9	80.20	29.23	12.66	17.8	174.6	58.46	25.32	39.5	387	129.7	56.2	84	824	275.9	119.5
9	81.10	29.56	12.80	18	176.5	59.11	25.60	40	392	131.4	56.9	85	834	279.1	120.9
9.1	82.00	29.89	12.94	18.2	178.5	59.77	25.89	40.5	397	133.0	57.6	86	843	282.4	122.3
9.2	82.91	30.21	13.09	18.4	180.4	60.43	26.17	41	402	134.6	58.3	87	853	285.7	123.7
9.3	83.81	30.54	13.23	18.6	182.4	61.08	26.45	41.5	407	136.3	59.0	88	863	289.0	125.2
9.4	84.71	30.87	13.37	18.8	184.4	61.74	26.74	42	412	137.9	59.7	89	873	292.3	126.6
9.5	85.61	31.20	13.51	19	186.3	62.40	27.02	42.5	417	139.6	60.4	90	883	295.6	128.0
9.6	86.51	31.53	13.65	19.2	188.3	63.05	27.31	43	422	141.2	61.2	92	902	302.1	130.9
9.7	87.41	31.86	13.80	19.4	190.3	63.71	27.59	43.5	427	142.9	61.9	94	922	308.7	133.7
9.8	88.31	32.18	13.94	19.6	192.2	64.37	27.88	44	431	144.5	62.6	96	941	315.3	136.5
9.9	89.21	32.51	14.08	19.8	194.2	65.02	28.16	44.5	436	146.1	63.3	98	961	321.8	139.4

Hydro Power

What:

ENERGY from NATURE