

Table B.7.3.A - GALVANIZED STEEL PIPE - STD WT

PIPE SIZE	4 FPS VELOCITY				8 FPS VELOCITY				PIPE SIZE
	WSFU (tanks)	WSFU (valves)	FLOW GPM	PD psi/100ft	WSFU (tanks)	WSFU (valves)	FLOW GPM	PD psi/100ft	
1/2"	4		3.8	7.6	9		7.6	27.3	1/2"
3/4"	8		6.6	5.5	19		13.3	19.7	3/4"
1"	15		10.8	4.1	33	5	21.5	14.9	1"
1-1/4"	28		18.6	3.0	74	24	37.3	10.8	1-1/4"
1-1/2"	41	8	25.4	2.5	129	49	50.8	9.1	1-1/2"
2"	91	31	41.8	1.9	293	163	83.7	6.8	2"
2-1/2"	174	73	59.7	1.5	472	363	119.4	5.5	2-1/2"
3"	336	207	92.2	1.2	840	817	184.4	4.3	3"
4"	687	634	158.7	0.9	1925	1925	317.5	3.1	4"
5"	1329	1329	249.4	0.7	3710	3710	498.9	2.4	5"
6"	2320	2320	360.2	0.5	7681	7681	720.4	1.9	6"

Table B.7.3.B - TYPE K COPPER TUBE

TUBE SIZE	4 FPS VELOCITY				5 FPS VELOCITY				8 FPS VELOCITY				TUBE SIZE
	WSFU (tanks)	WSFU (valves)	FLOW GPM	PD psi/100ft	WSFU (tanks)	WSFU (valves)	FLOW GPM	PD psi/100ft	WSFU (tanks)	WSFU (valves)	FLOW GPM	PD psi/100ft	
3/8"			1.6	8.4			2.0	12.7	3		3.2	30.4	3/8"
1/2"			2.7	6.1	3		3.4	9.3	6		5.4	22.1	1/2"
3/4"	6		5.4	4.1	8		6.8	6.2	15		10.9	14.8	3/4"
1"	13		9.7	2.9	16		12.1	4.4	29		19.4	10.6	1"
1-1/4"	22		15.2	2.3	28		19.0	3.4	53	14	30.4	8.1	1-1/4"
1-1/2"	33	5	21.5	1.8	45	10	26.9	2.8	96	33	43.0	6.7	1-1/2"
2"	75	24	37.6	1.3	112	40	47.0	2.0	251	126	75.2	4.8	2"
2-1/2"	165	69	58.1	1.0	238	115	72.6	1.6	456	341	116.1	3.7	2-1/2"
3"	289	159	82.8	0.8	392	267	103.4	1.3	725	682	165.5	3.0	3"
4"	615	541	145.7	0.6	826	801	182.1	0.9	1678	1678	291.4	2.2	4"
5"	1134	1134	226.1	0.5	1605	1605	282.6	0.7	3191	3191	452.2	1.7	5"
6"	1978	1978	322.8	0.4	2713	2713	403.5	0.6	5910	5910	645.5	1.4	6"

Table B.7.3.C - TYPE L COPPER TUBE

TUBE SIZE	4 FPS VELOCITY				5 FPS VELOCITY				8 FPS VELOCITY				TUBE SIZE
	WSFU (tanks)	WSFU (valves)	FLOW GPM	PD psi/100ft	WSFU (tanks)	WSFU (valves)	FLOW GPM	PD psi/100ft	WSFU (tanks)	WSFU (valves)	FLOW GPM	PD psi/100ft	
3/8"			1.8	7.8	2		2.3	11.7	4		3.6	28.0	3/8"
1/2"	3		2.9	5.9	4		3.6	8.9	7		5.8	21.3	1/2"
3/4"	7		6.0	3.9	9		7.5	5.8	16		12.1	13.9	3/4"
1"	14		10.3	2.8	18		12.9	4.3	31		20.6	10.2	1"
1-1/4"	23		15.7	2.2	29		19.5	3.3	56	15	31.3	8.0	1-1/4"
1-1/2"	34	5	22.2	1.8	47	11	27.7	2.7	101	36	44.4	6.5	1-1/2"
2"	79	26	38.6	1.3	117	43	48.2	2.0	261	136	77.2	4.7	2"
2-1/2"	173	73	59.5	1.0	247	120	74.4	1.5	470	360	119.0	3.7	2-1/2"
3"	300	170	84.9	0.8	406	281	106.2	1.3	749	713	169.9	3.0	3"
4"	635	567	149.3	0.6	854	833	186.7	0.9	1739	1739	298.7	2.2	4"
5"	1189	1189	232.7	0.5	1674	1674	290.9	0.7	3338	3338	465.5	1.7	5"
6"	2087	2087	334.6	0.4	2847	2847	418.2	0.6	6382	6382	669.1	1.4	6"

Table B.7.3.D - TYPE M COPPER TUBE

TUBE SIZE	4 FPS VELOCITY				5 FPS VELOCITY				8 FPS VELOCITY				TUBE SIZE
	WSFU (tanks)	WSFU (valves)	FLOW GPM	PD psi/100ft	WSFU (tanks)	WSFU (valves)	FLOW GPM	PD psi/100ft	WSFU (tanks)	WSFU (valves)	FLOW GPM	PD psi/100ft	
3/8"			2.0	7.3			2.5	11.1	4		4.0	26.6	3/8"
1/2"	3		3.2	5.6	4		4.0	8.5	7		6.3	20.2	1/2"
3/4"	7		6.4	3.7	10		8.1	5.6	18		12.9	13.4	3/4"
1"	15		10.9	2.7	19		13.6	4.1	34	5	21.8	9.9	1"
	24		16.3	2.2	30		20.4	3.3	59	17	32.6	7.8	
	36	6	22.8	1.8	49	12	28.5	2.7	107	38	45.7	6.4	
2"	82	28	39.5	1.3	122	46	49.4	2.0	270	144	79.1	4.7	2"
	180	77	61.0	1.0	256	131	76.2	1.5	485	380	121.9	3.6	
3"	310	180	87.0	0.8	419	294	108.8	1.2	775	743	174.0	3.0	3"
4"	648	583	151.6	0.6	872	854	189.5	0.9	1783	1783	303.3	2.1	4"
5"	1215	1215	235.8	0.5	1706	1706	294.8	0.7	3407	3407	471.6	1.7	5"
6"	2125	2125	338.7	0.4	2894	2894	423.4	0.6	6548	6548	677.4	1.3	6"

Table B.7.3.E - CPVC, PVC, ABS, PE PLASTIC PIPE - SCHEDULE 40

PIPE SIZE	4 FPS VELOCITY				8 FPS VELOCITY				PIPE SIZE
	WSFU (tanks)	WSFU (valves)	FLOW GPM	PD psi/100 ft	WSFU (tanks)	WSFU (valves)	FLOW GPM	PD psi/100ft	
1/2"	4		3.6	5.2	9		7.3	18.7	1/2"
3/4"	7		6.4	3.7	18		12.9	13.4	3/4"
1"	14		10.5	2.8	32	4	20.9	10.1	1"
1-1/4"	27		18.2	2.0	71	22	36.4	7.3	1-1/4"
1-1/2"	40	8	24.9	1.7	124	47	49.7	6.1	1-1/2"
2"	89	30	41.1	1.3	286	157	82.2	4.6	2"
2-1/2"	168	70	58.5	1.0	460	347	117.1	3.7	2-1/2"
3"	328	198	90.6	0.8	820	795	181.2	2.9	3"
4"	675	618	156.5	0.6	1881	1881	313.1	2.1	4"
5"	1303	1303	246.4	0.5	3642	3642	492.8	1.6	5"
6"	2284	2284	356.2	0.4	7413	7413	712.4	1.3	6"

Table B.7.3.F - CPVC, PVC, ABS, PE PLASTIC PIPE - SCHEDULE 80

PIPE SIZE	4 FPS VELOCITY				8 FPS VELOCITY				PIPE SIZE
	WSFU (tanks)	WSFU (valves)	FLOW GPM	PD psi/100ft	WSFU (tanks)	WSFU (valves)	FLOW GPM	PD psi/100ft	
1/2"	3		2.7	6.1	7		5.5	22.1	1/2"
3/4"	6		5.1	4.2	14		10.3	15.3	3/4"
1"	11		8.6	3.1	25		17.2	11.3	1"
1-1/4"	22		15.4	2.2	55	15	30.8	8.1	1-1/4"
1-1/2"	33	4	21.3	1.9	95	33	42.7	6.7	1-1/2"
2"	70	21	35.8	1.4	233	112	71.7	4.9	2"
2-1/2"	132	51	51.4	1.1	389	264	102.7	4.0	2-1/2"
3"	277	149	80.3	0.9	698	648	160.7	3.1	3"
4"	585	503	140.4	0.6	1590	1590	280.7	2.2	4"
5"	1105	1105	222.6	0.5	3114	3114	445.3	1.7	5"
6"	1942	1942	319.2	0.4	5767	5767	638.3	1.4	6"

Table B.7.3.G - CPVC PLASTIC TUBING (Copper Tube Size) - SDR 11

TUBE SIZE (CTS)	4 FPS VELOCITY				8 FPS VELOCITY				TUBE SIZE (CTS)
	WSFU (tanks)	WSFU (valves)	FLOW GPM	PD psi/100ft	WSFU (tanks)	WSFU (valves)	FLOW GPM	PD psi/100ft	
1/2"	2		2.4	6.6	6		4.8	23.9	1/2"
3/4"	6		4.9	4.4	13		9.8	15.8	3/4"
1"	10		8.1	3.3	24		16.2	11.8	1"
1-1/4"	16		12.1	2.6	38	7	24.2	9.3	1-1/4"
1-1/2"	25		16.9	2.1	62	18	33.7	7.7	1-1/2"
2"	50	12	28.9	1.6	164	68	57.8	5.6	2"

Table B.7.3.H - PEX Plastic Tubing (Copper Tube Size) SDR 9

TUBE SIZE (CTS)					8 FPS VELOCITY				TUBE SIZE (CTS)
					WSFU (tanks)	WSFU (valves)	FLOW GPM	PD psi/100 ft	
3/8"					1		2.4	35.3	3/8"
1/2"					5		4.5	24.8	1/2"
3/4"					11		8.8	16.8	3/4"
1"					21		14.5	12.5	1"
1-1/4"					33		21.6	9.9	1-1/4"
1-1/2"					53	14	30.2	8.2	1-1/2"
2"					134	52	51.7	6.0	2"

Table B.7.3.I - Composite Plastic Pipe (PE-AL-PE and PEX-AL-PEX)

PIPE SIZE	4 FPS VELOCITY				8 FPS VELOCITY				PIPE SIZE
	WSFU (tanks)	WSFU (valves)	FLOW GPM	PD psi/100 ft	WSFU (tanks)	WSFU (valves)	FLOW GPM	PD psi/100 ft	
3/8"	1		1.1	10.3	1		2.2	37.0	3/8"
1/2"	2		2.4	6.6	5		4.7	23.9	1/2"
3/4"	7		6.2	3.8	17		12.4	13.7	3/4"
1"	13		10.1	2.9	31		20.3	10.3	1"
1-1/4"	22		15.5	2.2	55	15	30.9	8.1	1-1/4"
1-1/2"	41	5	25.3	1.7	128	49	50.7	6.0	1-1/2"
2"	81	27	39.2	1.3	267	142	78.4	4.7	2"
2-1/2"	147	58	54.2	1.1	417	292	108.4	3.9	2-1/2"