SteelMass 640S Series: Gas Tables

640S - Air - Gas Code 0	Application Temp. = 15-250° F					
Spec (%rdg)	Pipe Size	Area (SqFt)	Max Vel (SFPM)	Max (SCFM)	Max nm3/hr	Max PSIG
standard accuracy	1"	0.0060	20,000	120	189	120
standard accuracy	1-1/2"	0.0142	20,000	284	448	120
standard accuracy	2"	0.0233	20,000	466	735	120
standard accuracy	3"	0.0513	20,000	1026	1618	120
standard accuracy	4"	0.0884	20,000	1768	2788	120
standard accuracy	6"	0.2010	20,000	4020	6340	120
standard accuracy	8"	0.3470	20,000	6940	10945	120
standard accuracy	10"	0.5480	20,000	10960	17285	120
standard accuracy	12"	0.7770	20,000	15540	24508	120
standard accuracy	14"	0.9390	20,000	18780	29618	120
standard accuracy	16"	1.2270	20,000	24540	38703	120
standard accuracy	18"	1.5530	20,000	31060	48985	120
standard accuracy	24"	2.7920	20,000	55840	88065	120
standard accuracy	36"	6.4920	20,000	129840	204773	120

NOTE: ATEX FLOWS 50% OF ABOVE DUE TO ENERGY LIMITATIONS

640S -Argon- Gas Code 1	Application Temp. = 15-250° F					
Spec (%rdg)	Pipe Size	Area (SqFt)	Max Vel (SFPM)	Max (SCFM)	Max nm3/hr	Max PSIG
standard accuracy	1"	0.0060	28,000	168	265	120
standard accuracy	1-1/2"	0.0142	28,000	398	627	120
standard accuracy	2"	0.0233	28,000	652	1029	120
standard accuracy	3"	0.0513	28,000	1436	2265	120
standard accuracy	4"	0.0884	28,000	2475	3904	120
standard accuracy	6"	0.2010	28,000	5628	8876	120
standard accuracy	8"	0.3470	28,000	9716	15324	120
standard accuracy	10"	0.5480	28,000	15344	24199	120
standard accuracy	12"	0.7770	28,000	21756	34312	120
standard accuracy	14"	0.9390	28,000	26292	41466	120
standard accuracy	16"	1.2270	28,000	34356	54184	120
standard accuracy	18"	1.5530	28,000	43484	68579	120
standard accuracy	24"	2.7920	28,000	78176	123293	120
standard accuracy	36"	6.4920	28,000	181776	286683	120

NOTE: ATEX FLOWS 50% OF ABOVE DUE TO ENERGY LIMITATIONS

640S -CO2 - Gas Code 2	Application Temp. = 15-250° F					
Spec (%rdg)	Pipe Size	Area (SqFt)	Max Vel (SFPM)	Max (SCFM)	Max nm3/hr	Max PSIG
standard accuracy	1"	0.0060	19,800	119	187	120
standard accuracy	1-1/2"	0.0142	19,800	281	443	120
standard accuracy	2"	0.0233	19,800	461	728	120
standard accuracy	3"	0.0513	19,800	1016	1602	120
standard accuracy	4"	0.0884	19,800	ATEX	2760	120
standard accuracy	6"	0.2010	19,800	3980	6277	120
standard accuracy	8"	0.3470	19,800	6871	10836	120
standard accuracy	10"	0.5480	19,800	10850	17112	120
standard accuracy	12"	0.7770	19,800	15385	24263	120
standard accuracy	14"	0.9390	19,800	18592	29322	120
standard accuracy	16"	1.2270	19,800	24295	38316	120
standard accuracy	18"	1.5530	19,800	30749	48495	120
standard accuracy	24"	2.7920	19,800	56282	87186	120
standard accuracy	36"	6.4920	19,800	128542	202726	120

NOTE: ATEX FLOWS 50% OF ABOVE DUE TO ENERGY LIMITATIONS

640S - Chlorine - Gas Code 3 Application Temp. = 15-250° F						
Spec (% FS)	Pipe Size	Area (SqFt)	Max Vel (SFPM)	Max (SCFM)	Max nm3/hr	Max PSIG
5% correlation	1"	0.00600	20,000	120.0	189	120
5% correlation	1-1/2"	0.01420	20,000	284.0	448	120
5% correlation	2"	0.02330	20,000	466.0	735	120
5% correlation	3"	0.05130	20,000	1026.0	1618	120
5% correlation	4"	0.08840	20,000	1768.0	2788	120
5% correlation	6"	0.20100	20,000	4020.0	6340	120
5% correlation	8"	0.34700	20,000	6940.0	10945	120

NOTE: ATEX FLOWS 50% OF ABOVE DUE TO ENERGY LIMITATIONS

640S - Digester - Gas Code 4 Application Temp. = 15-250° F						
Spec (%rdg)	Pipe Size	Area (SqFt)	Max Vel (SFPM)	Max (SCFM)	Max nm3/hr	Max PSIG
standard accuracy	1"	0.0060	17,200	103	163	30
standard accuracy	1-1/2"	0.0142	17,200	244	385	30
standard accuracy	2"	0.0233	17,200	401	632	30
standard accuracy	3"	0.0513	17,200	882	1392	30
standard accuracy	4"	0.0884	17,200	1520	2398	30
standard accuracy	6"	0.2010	17,200	3457	5452	30
standard accuracy	8"	0.3470	17,200	5968	9413	30
standard accuracy	10"	0.5480	17,200	9426	14865	30
standard accuracy	12"	0.7770	17,200	13364	21077	30
standard accuracy	14"	0.9390	17,200	16151	25472	30
standard accuracy	16"	1.2270	17,200	21104	33284	30
standard accuracy	18"	1.5530	17,200	25712	42127	30
standard accuracy	24"	2.7920	17,200	48022	75737	30
standard accuracy	36"	6.4920	17,200	111662	176105	30

NOTE: ATEX FLOWS 50% OF ABOVE DUE TO ENERGY LIMITATIONS

640S - Digester - Gas Code 5 Application Temp. = 15-250° F						
Spec (%rdg)	Pipe Size	Area (SqFt)	Max Vel (SFPM)	Max (SCFM)	Max nm3/hr	Max PSIG
3% of reading + 1% of full scale correlation	1"	0.0060	17,200	103	163	120
3% of reading + 1% of full scale correlation	1-1/2"	0.0142	17,200	244	385	120
3% of reading + 1% of full scale correlation	2"	0.0233	17,200	401	632	120
3% of reading + 1% of full scale correlation	3"	0.0513	17,200	882	1392	120
3% of reading + 1% of full scale correlation	4"	0.0884	17,200	1520	2398	120
3% of reading + 1% of full scale correlation	6"	0.2010	17,200	3457	5452	120
3% of reading + 1% of full scale correlation	8"	0.3470	17,200	5968	9413	120
3% of reading + 1% of full scale correlation	10"	0.5480	17,200	9426	14865	120
3% of reading + 1% of full scale correlation	12"	0.7770	17,200	13364	21077	120
3% of reading + 1% of full scale correlation	14"	0.9390	17,200	16151	25472	120
3% of reading + 1% of full scale correlation	16"	1.2270	17,200	21104	33284	120
3% of reading + 1% of full scale correlation	18"	1.5530	17,200	25712	42127	120
3% of reading + 1% of full scale correlation	24"	2.7920	17,200	48022	75737	120
3% of reading + 1% of full scale correlation	36"	6.4920	17,200	111662	176105	120

NOTE: ATEX FLOWS 50% OF ABOVE DUE TO ENERGY LIMITATIONS

640S - Helium - Gas Code 6 Application Temp. = 15-250° F						
Spec (%rdg)	Pipe Size	Area (SqFt)	Max Vel (SFPM)	Max (SCFM)	Max nm3/hr	Max PSIG
standard accuracy	1"	0.0060	12,400	74	117	120
standard accuracy	1-1/2"	0.0142	12,400	176	278	120
standard accuracy	2"	0.0233	12,400	289	456	120
standard accuracy	3"	0.0513	12,400	646	1003	120
standard accuracy	4"	0.0884	12,400	1096	1729	120
standard accuracy	6"	0.2010	12,400	2492	3931	120
standard accuracy	8"	0.3470	12,400	4303	6786	120
standard accuracy	10"	0.5480	12,400	6795	10717	120
standard accuracy	12"	0.7770	12,400	9635	15195	120
standard accuracy	14"	0.9390	12,400	11644	18363	120
standard accuracy	16"	1.2270	12,400	15215	23996	120
standard accuracy	18"	1.5530	12,400	19257	30371	120
standard accuracy	24"	2.7920	12,400	34621	54601	120
standard accuracy	36"	6.4920	12,400	80501	126959	120

NOTE: ATEX FLOWS 50% OF ABOVE DUE TO ENERGY LIMITATIONS

640S - Hydrogen - Gas Code 7	Application Temp. = 15-250° F					
Spec (% FS)	Pipe Size	Area (SqFt)	Max Vel (SFPM)	Max (SCFM)	Max nm3/hr	Max PSIG
standard accuracy	1"	0.0060	9,600	58	92	135
standard accuracy	1-1/2"	0.01420	9,600	136	218	135
standard accuracy	2"	0.02330	9,600	224	358	135
standard accuracy	3"	0.05130	9,600	492	788	135
standard accuracy	4"	0.08840	9,600	849	1358	135
standard accuracy	6"	0.20100	9,600	1,930	3087	135
standard accuracy	8"	0.34700	9,600	3331	5330	135

NOTE: ATEX FLOWS 50% OF ABOVE DUE TO ENERGY LIMITATIONS

640S - CH4 - Gas Code 8	Application Temp. = 15-250° F					
Spec (% FS)	Pipe Size	Area (SqFt)	Max Vel (SFPM)	Max (SCFM)	Max nm3/hr	Max PSIG
standard accuracy	1"	0.00600	16,000	96	151	30
standard accuracy	1-1/2"	0.01420	16,000	227	358	30
standard accuracy	2"	0.02330	16,000	373	588	30
standard accuracy	3"	0.05130	16,000	821	1295	30
standard accuracy	4"	0.08840	16,000	1414	2231	30
standard accuracy	6"	0.20100	16,000	3216	5072	30
standard accuracy	8"	0.34700	16,000	5552	8756	30

NOTE: ATEX FLOWS 50% OF ABOVE DUE TO ENERGY LIMITATIONS

640S - CH4 - Gas Code 9	Application Temp. = 15-250° F					
Spec (%rdg)	Pipe Size	Area (SqFt)	Max Vel (SFPM)	Max (SCFM)	Max nm3/hr	Max PSIG
3% of reading + 1% of full scale correlatio	1"	0.00600	16,000	96	151	120
3% of reading + 1% of full scale correlatio	1-1/2"	0.01420	16,000	227	358	120
3% of reading + 1% of full scale correlatio	2"	0.02330	16,000	373	588	120
3% of reading + 1% of full scale correlatio	3"	0.06130	16,000	821	1295	120
3% of reading + 1% of full scale correlatio	4"	0.08840	16,000	1414	2231	120
3% of reading + 1% of full scale correlatio	6"	0.20100	16,000	3216	5072	120
3% of reading + 1% of full scale correlatio	8"	0.34700	16,000	5552	8756	120

NOTE: ATEX FLOWS 50% OF ABOVE DUE TO ENERGY LIMITATIONS

640S - Nitrogen - Gas Code 10 Application Temp. = 15-250° F						
Spec (%rdg)	Pipe Size	Area (SqFt)	Max Vel (SFPM)	Max (SCFM)	Max nm3/hr	Max PSIG
standard accuracy	1"	0.0060	19,800	119	187	120
standard accuracy	1-1/2"	0.0142	19,800	281	443	120
standard accuracy	2"	0.0233	19,800	461	728	120
standard accuracy	3"	0.0513	19,800	1016	1602	120
standard accuracy	4"	0.0884	19,800	1750	2760	120
standard accuracy	6"	0.2010	19,800	3980	6277	120
standard accuracy	8"	0.3470	19,800	6871	10836	120
standard accuracy	10"	0.5480	19,800	10850	17112	120
standard accuracy	12"	0.7770	19,800	15385	24263	120
standard accuracy	14"	0.9390	19,800	18592	29322	120
standard accuracy	16"	1.2270	19,800	24295	38316	120
standard accuracy	18"	1.5530	19,800	30749	48495	120
standard accuracy	24"	2.7920	19,800	55282	87186	120
standard accuracy	36"	6.4920	19,800	126542	202726	120

NOTE: ATEX FLOWS 50% OF ABOVE DUE TO ENERGY LIMITATIONS

640S - Oxygen - Gas Code 11 Application Temp. = 15-250° F						
Spec (%rdg)	Pipe Size	Area (SqFt)	Max Vel (SFPM)	Max (SCFM)	Max nm3/hr	Max PSIG
standard accuracy	1"	0.0060	19,800	119	187	120
standard accuracy	1-1/2"	0.0142	19,800	281	443	120
standard accuracy	2"	0.0233	19,800	461	728	120
standard accuracy	3"	0.0513	19,800	1016	1602	120
standard accuracy	4"	0.0884	19,800	1750	2760	120
standard accuracy	6"	0.2010	19,800	3980	6277	120
standard accuracy	8"	0.3470	19,800	6871	10836	120
standard accuracy	10"	0.5480	19,800	10850	17112	120
standard accuracy	12"	0.7770	19,800	15385	24263	120
standard accuracy	14"	0.9390	19,800	18592	29322	120
standard accuracy	16"	1.2270	19,800	24295	38316	120
standard accuracy	18"	1.5530	19,800	30749	48495	120
standard accuracy	24"	2.7920	19,800	55282	87186	120
standard accuracy	36"	6.4920	19,800	126542	202726	120

NOTE: ATEX FLOWS 50% OF ABOVE DUE TO ENERGY LIMITATIONS

640S - Propane - Gas Code 12 Application Temp. = 50-90° F						
Spec (%rdg)	Pipe Size	Area (SqFt)	Max Vel (SFPM)	Max (SCFM)	Max nm3/hr	Max PSIG
standard accuracy	1"	0.0060	13,200	79	125	30
standard accuracy	1-1/2"	0.0142	13,200	187	296	30
standard accuracy	2"	0.0233	13,200	308	485	30
standard accuracy	3"	0.0513	13,200	677	1068	30
standard accuracy	4"	0.0884	13,200	1187	1840	30
standard accuracy	6"	0.2010	13,200	2653	4184	30
standard accuracy	8"	0.3470	13,200	4580	7224	30
standard accuracy	10"	0.5480	13,200	7234	11408	30
standard accuracy	12"	0.7770	13,200	10256	16176	30
standard accuracy	14"	0.9390	13,200	12395	19548	30
standard accuracy	16"	1.2270	13,200	16196	25544	30
standard accuracy	18"	1.5530	13,200	20500	32330	30
standard accuracy	24"	2.7920	13,200	35854	58124	30
standard accuracy	36"	6.4920	13,200	85694	135150	30

NOTE: ATEX FLOWS 50% OF ABOVE DUE TO ENERGY LIMITATIONS

640S - Propane - Gas Code 13 Application Temp. = 15-250° F						
Spec (%rdg)	Pipe Size	Area (SqFt)	Max Vel (SFPM)	Max (SCFM)	Max nm3/hr	Max PSIG
3% of reading + 1% of full scale correlatio	1"	0.0060	13,200	79	125	120
3% of reading + 1% of full scale correlatio	1-1/2"	0.0142	13,200	187	296	120
3% of reading + 1% of full scale correlatio	2"	0.0233	13,200	308	485	120
3% of reading + 1% of full scale correlatio	3"	0.0513	13,200	677	1068	120
3% of reading + 1% of full scale correlatio	4"	0.0884	13,200	1187	1840	120
3% of reading + 1% of full scale correlatio	6"	0.2010	13,200	2653	4184	120
3% of reading + 1% of full scale correlatio	8"	0.3470	13,200	4580	7224	120
3% of reading + 1% of full scale correlatio	10"	0.5480	13,200	7234	11408	120
3% of reading + 1% of full scale correlatio	12"	0.7770	13,200	10256	16176	120
3% of reading + 1% of full scale correlatio	14"	0.9390	13,200	12395	19548	120
3% of reading + 1% of full scale correlatio	16"	1.2270	13,200	16196	25544	120
3% of reading + 1% of full scale correlatio	18"	1.5530	13,200	20500	32330	120
3% of reading + 1% of full scale correlatio	24"	2.7920	13,200	35854	58124	120
3% of reading + 1% of full scale correlatio	36"	6.4920	13,200	85694	135150	120

NOTE: ATEX FLOWS 50% OF ABOVE DUE TO ENERGY LIMITATIONS

640S - Ammonia - Gas Code 14 Application Temp. = 15-250° F						
Spec (% FS)	Pipe Size	Area (SqFt)	Max Vel (SFPM)	Max (SCFM)	Max nm3/hr	Max PSIG
5% correlation	1"	0.00600	20,000	120.0	189	120
5% correlation	1-1/2"	0.01420	20,000	284.0	448	120
5% correlation	2"	0.02330	20,000	466.0	735	120
5% correlation	3"	0.05130	20,000	1026.0	1618	120
5% correlation	4"	0.08840	20,000	1768.0	2788	120
5% correlation	6"	0.20100	20,000	4020.0	6340	120
5% correlation	8"	0.34700	20,000	6940.0	10945	120

NOTE: ATEX FLOWS 50% OF ABOVE DUE TO ENERGY LIMITATIONS