

TECHNICAL INFORMATION

TABLES OF STANDARD FLOW CAPACITIES P, Px, T, Tx AND S METERS

TABLE 6
150mm Flow tubes (See Table 8 for Gas Flow Capacities)

FLOW TUBE MAXIMUM FLOW RATES				
FLOW TUBE NUMBER	AIR		WATER	
	[mL/min]	[scfh]	[mL/min]	[gph]
042-15-GL	19	0.040	0.19	0.003
042-15-SA	30	0.064	0.39	0.006
042-15-ST	61	0.128	0.94	0.015
042-15-CA	110	0.234	1.91	0.030
042-15-TA	121	0.257	2.13	0.033
032-41-GL	49	0.104	0.49	0.008
032-41-SA	73	0.155	0.98	0.016
032-41-ST	143	0.290	2.34	0.039
032-41-CA	246	0.521	4.7	0.078
032-41-TA	264	0.559	5.1	0.087
062-01-GL	92	0.195	0.9	0.013
062-01-SA	141	0.297	1.9	0.030
062-01-ST	264	0.559	4.7	0.075
062-01-CA	444	0.962	8.5	0.135
062-01-TA	484	1.025	9.2	0.146
112-02-GL	374	0.792	5.5	0.087
112-02-SA	513	1.087	10.0	0.159
112-02-ST	814	1.725	20.4	0.323
112-02-CA	1222	2.589	33.7	0.534
112-02-TA	1331	2.820	36.1	0.572
082-03-GL	844	1.748	16.5	0.262
082-03-SA	1093	2.316	26.1	0.414
082-03-ST	1682	3.564	44.6	0.729
082-03-CA	2423	5.133	70.5	1.117
082-03-TA	2576	5.458	75.6	1.198
092-04-GL	2313	4.900	54	0.848
092-04-SA	3079	6.523	78	1.233
092-04-ST	4562	9.665	133	2.067
092-04-CA	6621	14.02	201	3.180
092-04-TA	6932	14.68	212	3.357
102-05-GL	3922	8.07	84	1.336
102-05-SA	5188	10.60	126	1.336
102-05-ST	7825	16.58	217	3.433
102-05-CA	11371	22.94	329	5.219
102-05-TA	11965	24.10	353	5.589
034-39-GL	8505	18.38	210	3.32
034-39-SA	11357	24.05	306	4.84
034-39-ST	16737	35.46	506	8.02
034-39-CA	23752	50.32	747	11.84
034-39-TA	25252	53.50	790	12.52
044-40-GL	23742	47.7	541	8.58
044-40-SA	30711	62.6	806	12.77
044-40-ST	45227	87.9	1288	20.41
044-40-CA	66346	126.0	1881	29.81
044-40-TA	69940	132.6	2001	31.72

*SUFFIX REFERS TO FLOAT MATERIALS;

GL = Black Glass
SA = Sapphire (red)
ST = 316 Stainless Steel
CA = Carboloy®
TA = Tantalum

TABLE 7
65mm Flow tubes (See Table 9 for Gas Flow Capacities)

FLOW TUBE MAXIMUM FLOW RATES				
FLOW TUBE NUMBER	AIR		WATER	
	[mL/min]	[scfh]	[mL/min]	[gph]
042-07-GL	6	0.013	0.07	0.001
042-07-SA	9	0.017	0.08	0.001
042-07-ST	19	0.036	0.28	0.004
042-07-CA	33	0.070	0.62	0.009
042-07-TA	36	0.072	0.66	0.010
032-15-GL	49	0.104	0.55	0.009
032-15-SA	74	0.153	0.98	0.016
032-15-ST	145	0.307	2.38	0.038
032-15-CA	246	0.528	4.60	0.073
032-15-TA	271	0.578	5.25	0.084
022-13-GL	104	0.220	1.8	0.028
022-13-SA	159	0.337	3.4	0.054
022-13-ST	299	0.633	5.8	0.122
022-13-CA	516	1.093	14.1	0.223
022-13-TA	530	1.123	15.5	0.246
012-10-GL	202	0.43	2.6	0.041
012-10-SA	300	0.64	4.7	0.074
012-10-ST	522	1.11	12.0	0.190
012-10-CA	818	1.73	20.8	0.330
012-10-TA	859	1.82	23.5	0.372
052-01-GL	986	2.09	20.5	0.325
052-01-SA	1299	2.75	34.0	0.539
052-01-ST	1946	4.12	55.6	0.881
052-01-CA	2827	5.99	88.5	1.403
052-01-TA	3020	6.40	94.0	1.490
023-92-GL	1249	2.65	25	0.428
023-92-SA	1623	3.44	37	0.586
023-92-ST	2520	5.34	71	1.125
023-92-CA	3680	7.80	104	1.648
013-88-GL	2040	4.32	40	0.63
013-88-SA	2704	5.73	61	0.97
013-88-ST	3990	8.45	108	1.71
013-88-CA	5739	12.16	170	2.69
365-02-GL	2678	5.67	52	0.82
365-02-ST	4922	10.40	150	2.38
014-96-GL	6318	13.4	147	2.33
014-96-SA	8145	17.3	217	3.44
014-96-ST	12058	25.5	364	5.77
014-96-CA	17153	36.3	540	8.56
014-96-TA	18213	38.6	568	9.00
054-17-GL	13153	27.9	309	4.90
054-17-SA	16980	36.0	456	7.23
054-17-ST	24680	52.3	745	11.8
054-17-CA	35320	74.8	1110	17.59
054-17-TA	37589	79.6	1182	18.73
064-63-GL	23169	49.1	522	8.27
064-63-SA	29218	61.9	798	12.65
064-63-ST	42094	89.2	1261	19.97
064-63-CA	58500	123.9	1866	29.58
064-63-TA	62100	131.6	2027	32.13

TABLE OF STANDARD FLOW CAPACITIES P, Px, T, Tx AND S METERS

TABLE 8 - 150mm FLOW TUBES, GAS FLOW CAPACITIES OF ROUTINE GASES

FLOW TUBE MAXIMUM FLOW RATES												
FLOW TUBE NUMBER	ARGON		CARBON DIOXIDE		HELIUM		HYDROGEN		NITROGEN		OXYGEN	
	[mL/min]	[scfh]	[mL/min]	[scfh]	[mL/min]	[scfh]	[mL/min]	[scfh]	[mL/min]	[scfh]	[mL/min]	[scfh]
042-15-GL	15	0.033	23	0.050	16	0.034	37	0.078	20	0.041	17	0.036
042-15-SA	24	0.052	37	0.078	26	0.054	59	0.126	31	0.066	27	0.057
042-15-ST	49	0.104	72	0.153	53	0.112	123	0.260	62	0.132	54	0.115
042-15-CA	90	0.192	127	0.269	101	0.214	232	0.491	114	0.241	99	0.210
042-15-TA	99	0.211	139	0.294	112	0.238	256	0.543	125	0.265	109	0.231
032-41-GL	44	0.093	56	0.121	46	0.100	94	0.212	48	0.119	42	0.104
032-41-SA	60	0.127	84	0.178	69	0.148	149	0.318	76	0.161	70.4	0.149
032-41-ST	113	0.239	150	0.318	133	0.282	301	0.646	143	0.303	131	0.278
032-41-CA	202	0.428	251	0.532	260	0.551	567	1.258	255	0.540	228	0.483
032-41-TA	222	0.470	263	0.557	288	0.610	602	1.390	274	0.581	244	0.517
062-01-GL	76	0.161	103	0.218	90	0.191	208	0.441	92	0.195	81	0.172
062-01-SA	111	0.235	157	0.333	142	0.301	322	0.682	139	0.294	121	0.256
062-01-ST	218	0.462	281	0.595	283	0.600	627	1.328	271	0.574	233	0.494
062-01-CA	373	0.790	445	0.943	519	1.100	1120	2.373	462	0.979	407	0.862
062-01-TA	393	0.833	470	0.996	555	1.176	1225	2.595	495	1.049	433	0.917
112-02-GL	305	0.646	355	0.752	450	0.953	1021	2.163	382	0.809	340	0.720
112-02-SA	429	0.909	472	1.000	681	1.443	1497	3.172	520	1.102	472	1.000
112-02-ST	676	1.432	728	1.542	1290	2.733	2496	5.288	824	1.746	753	1.595
112-02-CA	1020	2.161	1072	2.271	2221	4.706	3876	8.212	1220	2.585	1131	2.396
112-02-TA	1085	2.299	1134	2.403	2356	4.992	4257	9.019	1310	2.775	1206	2.555
082-03-GL	687	1.46	725	1.54	1490	3.16	2620	5.55	827	1.75	772	1.64
082-03-SA	910	1.93	944	2.00	2059	4.36	3546	7.51	1110	2.35	1024	2.18
082-03-ST	1380	2.92	1420	3.01	3397	7.20	5547	11.75	1662	3.52	1545	3.27
082-03-CA	1996	4.23	2039	4.32	5120	10.85	8170	17.31	2405	5.10	2246	4.76
082-03-TA	2131	4.51	2163	4.58	5437	11.52	8717	18.47	2575	5.46	2364	5.01
092-04-GL	1949	4.13	2048	4.34	4880	10.34	7817	16.56	2395	5.07	2169	4.60
092-04-SA	2605	5.52	2620	5.55	6458	13.68	10455	22.15	3142	6.66	2860	6.06
092-04-ST	3903	8.27	3990	8.45	9770	20.70	15855	33.59	4685	9.93	4341	9.20
092-04-CA	5665	12.00	5743	12.17	14500	30.72	22790	48.28	6845	14.50	6307	13.36
092-04-TA	6040	12.80	6018	12.75	15420	32.67	24252	51.38	7080	15.00	6690	14.17
102-05-GL	3151	6.68	3374	7.15	7803	16.53	13105	27.76	3868	8.19	3485	7.38
102-05-SA	4175	8.85	4388	9.30	10336	21.89	16108	34.13	5090	10.78	4652	9.86
102-05-ST	6384	13.54	6308	13.36	15960	33.82	27804	58.91	7722	16.36	6992	14.81
102-05-CA	9069	19.21	9069	19.21	23509	49.81	37553	79.57	10973	23.25	10082	21.36
102-05-TA	9627	20.40	9475	20.07	25131	53.24	39998	84.74	11628	24.64	10741	22.76
034-39-GL	7366	15.61	7485	15.86	19426	41.16	29840	63.22	8916	18.89	8269	17.52
034-39-SA	9539	20.21	9557	20.25	25400	53.81	40006	84.76	11524	24.42	10706	22.68
034-39-ST	14131	29.94	14051	29.77	38576	81.73	59996	127.1	17021	36.06	15710	33.28
034-39-CA	20166	42.72	19854	42.06	56220	119.1	83052	175.9	24071	51.00	22432	47.53
034-39-TA	21414	45.37	21115	44.74	60596	128.3	90410	191.5	25709	54.47	23790	50.40
044-40-GL	19761	41.9	18989	40.2	53100	112.5	85812	181.8	23512	49.8	21350	45.2
044-40-SA	24563	52.0	23855	50.6	70100	148.5	110100	233.2	29930	63.4	27181	57.5
044-40-ST	35300	74.8	34287	72.6	103647	219.6	159699	338.3	43000	91.1	39567	83.8
044-40-CA	47890	101.4	46311	98.1	146500	310.4	221872	470.0	59580	126.2	54902	116.3
044-40-TA	51997	110.2	49009	103.8	189826	402.2	234423	496.6	63826	135.2	57960	122.8

*Suffix refers to float materials: G = black glass, S = sapphire (red), ST = 316 stainless steel, C = Carboly®, T = tantalum.

Flow capacities shown in Tables 4, 5, 6 and 7 are based on calibrations at standard (STP) conditions (70 °F /21.1 °C and 14.7psia/1 atm abs). For fluids other than air or water at STP conditions see paragraph on METER SIZING on page 44. For special OEM requirements call toll free 1-800-866-3837.

for direct reading (engineering units) scale flow tubes contact the company or visit us at www.aalborg.com

TABLE OF STANDARD FLOW CAPACITIES P, Px, T, Tx AND S METERS

TABLE 9 - 65mm FLOW TUBES, GAS FLOW CAPACITIES OF ROUTINE GASES

FLOW TUBE MAXIMUM FLOW RATES												
FLOW TUBE NUMBER	ARGON		CARBON DIOXIDE		HELIUM		HYDROGEN		NITROGEN		OXYGEN	
	[mL/min]	[scfh]	[mL/min]	[scfh]	[mL/min]	[scfh]	[mL/min]	[scfh]	[mL/min]	[scfh]	[mL/min]	[scfh]
042-07-GL	4	0.01	6.5	0.01	5.5	0.01	9.6	0.02	5.6	0.01	5	0.01
042-07-SA	7.7	0.02	10	0.02	8	0.02	15.3	0.03	8.5	0.02	7	0.01
042-07-ST	14	0.03	20	0.04	16	0.03	32.3	0.07	18	0.04	15	0.03
042-07-CA	28	0.06	39	0.08	30	0.06	53.6	0.11	34	0.07	29	0.06
042-07-TA	29	0.06	40	0.08	32	0.07	64.8	0.14	34	0.07	30	0.06
032-15-GL	38	0.08	59	0.13	47	0.10	100	0.21	51	0.11	46	0.10
032-15-SA	63	0.13	90	0.19	71	0.15	150	0.32	78	0.17	72	0.15
032-15-ST	122	0.26	160	0.34	146	0.31	314	0.67	149	0.32	132	0.28
032-15-CA	214	0.45	263	0.56	274	0.58	593	1.26	264	0.56	239	0.51
032-15-TA	224	0.47	279	0.59	294	0.62	654	1.39	276	0.58	248	0.53
022-13-GL	86	0.18	122	0.26	99	0.21	284	0.60	113	0.24	94	0.20
022-13-SA	131	0.28	181	0.38	157	0.33	435	0.92	167	0.35	147	0.31
022-13-ST	246	0.52	310	0.66	313	0.66	700	1.75	312	0.66	268	0.57
022-13-CA	420	0.89	494	1.05	604	1.28	1500	3.18	524	1.11	456	0.97
022-13-TA	446	0.94	519	1.10	632	1.34	1553	3.29	563	1.19	486	1.03
012-10-GL	174	0.37	221	0.47	211	0.45	502	1.06	215	0.46	189	0.40
012-10-SA	257	0.54	307	0.65	327	0.69	788	1.67	312	0.66	279	0.59
012-10-ST	429	0.91	489	1.04	636	1.35	1488	3.15	530	1.12	480	1.02
012-10-CA	685	1.45	735	1.56	1185	2.51	2455	5.20	838	1.78	761	1.61
012-10-TA	724	1.53	775	1.64	1300	2.75	2728	5.78	877	1.86	800	1.69
052-01-GL	829	1.76	883	1.87	1903	4.03	3212	6.82	1015	2.15	970	2.06
052-01-SA	1095	2.32	1143	2.42	2606	5.52	4215	8.93	1321	2.80	1217	2.58
052-01-ST	1645	3.49	1699	3.60	4128	8.75	6598	13.98	1983	4.20	1842	3.90
052-01-CA	2415	5.12	2438	5.17	6175	13.08	9450	20.02	2900	6.14	2676	5.67
052-01-TA	2559	5.42	2587	5.48	6588	13.96	10332	21.89	3063	6.49	2837	6.01
023-92-GL	1065	2.26	1110	2.35	1990	4.22	3923	8.31	1293	2.74	1165	2.47
023-92-SA	1395	2.96	1500	3.18	2950	6.25	5258	11.14	1710	3.62	1575	3.34
023-92-ST	2124	4.50	2190	4.64	4970	10.53	8602	18.22	2610	5.53	2360	5.00
023-92-CA	3125	6.62	3210	6.80	7675	16.26	12850	27.22	3820	8.09	3485	7.38
013-88-GL	1784	3.78	1794	3.80	3470	7.35	6359	13.47	2091	4.43	1928	4.08
013-88-SA	2279	4.83	2314	4.90	4932	10.45	9130	19.34	2859	6.06	2522	5.34
013-88-ST	3388	7.18	3449	7.31	8699	18.43	13600	28.81	4097	8.68	3761	7.97
013-88-CA	4904	10.39	4937	10.46	13227	28.02	19682	41.70	5928	12.56	5380	11.40
365-02-GL	2171	4.60	2237	4.74	4853	10.28	9410	19.94	2624	5.56	2323	4.92
365-02-ST	4172	8.84	4225	8.95	10947	23.19	16857	38.06	5026	10.65	4733	10.03
014-96-GL	5290	11.21	5470	11.59	13750	29.13	21712	46.00	6380	13.52	5880	124.5
014-96-SA	6900	14.62	6980	14.79	18500	39.19	28211	59.77	8280	17.54	7640	16.19
014-96-ST	10175	21.56	10150	21.50	27300	57.84	42040	89.07	12200	25.85	11250	23.83
014-96-CA	14150	29.98	14200	30.08	39500	83.69	58498	123.9	17050	36.12	15875	33.63
014-96-TA	15300	32.42	15050	31.89	41400	87.71	63804	135.1	18250	38.67	16700	35.38
054-17-GL	11125	23.57	11156	23.64	29762	63.1	47100	99.8	13412	28.42	12341	26.15
054-17-SA	14389	30.49	14256	30.20	38731	82.1	61715	130.7	17351	36.76	16047	34.00
054-17-ST	21116	44.74	20798	44.06	58472	123.8	90323	191.3	25311	53.63	23322	49.41
054-17-CA	30126	63.83	29156	61.77	84632	179.3	130805	277.1	35830	75.91	33287	70.52
054-17-TA	31622	67.00	31126	65.94	88862	188.2	139224	294.9	37724	79.92	35738	75.72
064-63-GL	19817	42.0	19379	41.1	51380	108.8	80752	171.0	23506	49.80	21686	45.9
064-63-SA	24597	52.1	24630	52.2	67754	143.5	106000	224.5	30337	64.27	27901	59.1
064-63-ST	37441	79.3	35100	74.4	104600	221.6	154750	327.8	43487	92.13	40053	84.9
064-63-CA	50200	106.3	47950	101.5	148114	313.8	220500	467.1	60618	128.4	55539	117.6
064-63-TA	52850	111.9	53200	112.7	156500	331.5	222300	470.9	64051	135.7	58300	123.5

TECHNICAL INFORMATION

TABLE OF FLOW CAPACITIES at 50 PSIG for GAS PROPORTIONERS

TABLE 10 - 150mm FLOW TUBES, GAS FLOW CAPACITIES FOR GAS PROPORTIONERS at 50 PSIG							
FLOW TUBE MAXIMUM FLOW RATES							
FLOW TUBE NUMBER	AIR [mL/min]	ARGON [mL/min]	CARBON DIOXIDE [mL/min]	HELIUM [mL/min]	HYDROGEN [mL/min]	NITROGEN [mL/min]	OXYGEN [mL/min]
042-15-GL	83	67	97	73	169	85	74
042-15-SA	127	104	146	117	267	131	114
042-15-ST	242	200	265	241	535	249	218
042-15-CA	415	343	437	450	967	426	376
032-41-GL	191	161	203	203	399	197	166
032-41-SA	270	229	279	279	662	283	246
032-41-ST	460	383	478	478	1185	471	442
032-41-CA	743	625	702	702	2013	771	719
062-01-GL	324	270	346	333	844	331	294
062-01-SA	505	412	494	569	1209	467	460
062-01-ST	825	687	771	1089	2432	833	764
062-01-CA	1275	1062	1132	1972	3732	1303	1175
112-02-GL	1086	855	934	1779	3110	1016	930
112-02-SA	1324	1115	1168	2468	4289	1340	1228
112-02-ST	2024	1717	1724	4083	6740	2034	1905
112-02-CA	2912	2472	2521	6927	9979	2997	2703
082-03-GL	2008	1697	1747	4214	6711	2039	1865
082-03-SA	2590	2186	2264	5656	8995	2643	2503
082-03-ST	3903	3274	3343	8669	14490	3731	3685
082-03-CA	5547	4697	4691	12717	19993	6169	5210
092-04-GL	5528	4794	4954	12540	18862	5801	5381
092-04-SA	7240	6163	6217	15703	25235	7415	6826
092-04-ST	10813	9077	9178	24629	38556	11044	10335
092-04-CA	15322	12904	12879	34709	55936	15433	14451
102-05-GL	9294	7705	7888	19830	30900	9419	8749
102-05-SA	11647	9969	10042	26008	45263	11955	11137
102-05-ST	17311	14489	14420	40831	60300	17525	16353
102-05-CA	24065	20744	20099	59702	86369	24549	22905
034-39-GL	19767	17978	17936	48193	73500	21676	19931
034-39-SA	27514	23001	54010	63240	97000	27449	25800
034-39-ST	38995	33778	33087	98676	142000	40086	36821
034-39-CA	55293	47151	45745	139847	200500	55930	52494
044-40-GL	49374	41899	40520	125617	182239	50258	46851
044-40-SA	62480	53038	51220	159976	231239	63595	59304
044-40-ST	89880	76322	73584	231946	333775	91478	85341
044-40-CA	123846	105182	101303	321265	460942	126041	117615

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TABLE 11 - FLOW TUBES FOR AIR

65mm				150mm			
FLOW TUBE	QMAX	[UNITS]	PRESSURE	FLOW TUBE	QMAX	[UNITS]	PRESSURE
042-10-GL	7.00	mL/min	14.70 psia	042-12-SA	25.00	mL/min	14.70 psia
032-01-ST	50.00	mL/min	14.70 psia	032-06-SA	52.00	mL/min	14.70 psia
062-04-ST	75.00	mL/min	14.70 psia	042-06-CA	75.00	mL/min	14.70 psia
022-14-GL	100.00	mL/min	14.70 psia	032-10-ST	100.00	mL/min	14.70 psia
032-11-ST	130.00	mL/min	14.70 psia	042-75-CA	100.00	mL/min	14.70 psia
032-03-CA	250.00	mL/min	14.70 psia	032-21-ST	150.00	mL/min	14.70 psia
022-05-CA	500.00	mL/min	14.70 psia	062-03-ST	200.00	mL/min	14.70 psia
052-12-GL	1000.00	mL/min	14.70 psia	112-10-GL	300.00	mL/min	14.70 psia
052-04-GL	1.00	L/min	14.70 psia	112-08-SA	500.00	mL/min	14.70 psia
023-03-GL	1.15	L/min	14.70 psia	082-02-GL	800.00	mL/min	14.70 psia
052-07-ST	2.00	L/min	14.70 psia	112-19-CA	1.25	L/min	14.70 psia
013-89-ST	4.00	L/min	14.70 psia	082-12-ST	1.80	L/min	14.70 psia
014-03-GL	5.00	L/min	14.70 psia	092-25-GL	2.50	L/min	14.70 psia
014-02-ST	10.00	L/min	14.70 psia	102-07-GL	4.00	L/min	14.70 psia
044-11-ST	16.00	L/min	14.70 psia	102-03-SA	4.50	L/min	14.70 psia
054-01-ST	25.00	L/min	14.70 psia	092-14-ST	4.80	L/min	14.70 psia
064-03-ST	40.00	L/min	14.70 psia	102-01-SA	5.00	L/min	14.70 psia
052-05-GL	2.20	scfh	14.70 psia	034-62-GL	10.00	L/min	14.70 psia
365-18-GL	6.00	scfh	14.70 psia	102-16-CA	10.00	L/min	14.70 psia
365-19-ST	10.00	scfh	14.70 psia	034-13-ST	17.00	L/min	14.70 psia
034-61-ST	18.00	scfh	14.70 psia	044-14-GL	23.00	L/min	14.70 psia
014-17-ST	25.00	scfh	14.70 psia	044-41-ST	42.00	L/min	14.70 psia
054-02-ST	50.00	scfh	14.70 psia	044-16-CA	60.00	L/min	14.70 psia
064-62-ST	90.00	scfh	14.70 psia	112-01-CA	2.50	scfh	14.70 psia
074-02-CA	150.00	scfh	14.70 psia	092-09-GL	5.00	scfh	14.70 psia
014-01-CA	0.60	scfm	14.70 psia	102-06-GL	8.25	scfh	14.70 psia
				092-10-ST	10.00	scfh	14.70 psia
				102-08-ST	16.50	scfh	14.70 psia
				102-09-CA	23.00	scfh	14.70 psia
				044-05-GL	55.00	scfh	14.70 psia
				044-18-ST	90.00	scfh	14.70 psia
				044-07-ST	94.00	scfh	14.70 psia
				044-23-SA	1.00	scfm	14.70 psia
				044-43-ST	1.50	scfm	14.70 psia

TABLE 12 - FLOW TUBES FOR WATER

65mm				150mm			
FLOW TUBE	QMAX	[UNITS]	PRESSURE	FLOW TUBE	QMAX	[UNITS]	PRESSURE
032-04-GL	0.50	mL/min	14.70 psia	032-05-SA	1.00	mL/min	14.70 psia
022-08-ST	6.00	mL/min	14.70 psia	112-12-SA	10.00	mL/min	14.70 psia
052-09-GL	25.00	mL/min	14.70 psia	112-05-ST	20.00	mL/min	14.70 psia
052-08-ST	60.00	mL/min	14.70 psia	092-02-GL	50.00	mL/min	14.70 psia
013-02-ST	115.00	mL/min	14.70 psia	092-08-GL	60.00	mL/min	14.70 psia
365-01-ST	150.00	mL/min	14.70 psia	102-11-GL	100.00	mL/min	14.70 psia
044-09-GL	250.00	mL/min	14.70 psia	092-06-CA	200.00	mL/min	14.70 psia
064-05-GL	500.00	mL/min	14.70 psia	044-15-ST	1.20	L/min	14.70 psia
054-03-ST	750.00	mL/min	14.70 psia	044-01-TA	2.00	L/min	14.70 psia
064-04-SA	1.00	L/min	14.70 psia	044-12-SA	0.22	gpm	14.70 psia
064-06-ST	1.20	L/min	14.70 psia	044-42-CA	0.45	gpm	14.70 psia
052-16-ST	3.00	L/hr	14.70 psia	044-10-CA	29.00	gph	14.70 psia
034-74-ST	2.7	gph	14.70 psia				
064-12-GL	10.00	gph	14.70 psia				
064-09-CA	24.00	gph	14.70 psia				
064-11-TA	32.00	gph	14.70 psia				

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TABLE 13 - FLOW TUBES FOR ARGON

65mm				150mm			
FLOW TUBE	QMAX	[UNITS]	PRESSURE	FLOW TUBE	QMAX	[UNITS]	PRESSURE
052-15-SA	1000.00	mL/min	14.70 psia	062-10-CA	325.00	mL/min	14.70 psia
013-09-CA	4.5	L/min	14.70 psia	032-18-GL	33.00	mL/min	14.70 psia
064-14-SA	26.00	L/min	14.70 psia	082-11-CA	2.00	L/min	14.70 psia
023-05-GL	2.50	scfh	14.70 psia	034-07-ST	15.00	L/min	14.70 psia
365-17-ST	10.00	scfh	14.70 psia	044-22-SA	25.00	L/min	14.70 psia
014-14-ST	22.00	scfh	14.70 psia				
064-01-GL	50.00	scfh	14.70 psia				

TABLE 14 - FLOW TUBES FOR CARBON DIOXIDE

65mm				150mm			
FLOW TUBE	QMAX	[UNITS]	PRESSURE	FLOW TUBE	QMAX	[UNITS]	PRESSURE
042-20-SA	10.00	mL/min	14.70 psia	062-09-GL	100.00	mL/min	14.70 psia
042-09-ST	20.00	mL/min	14.70 psia	032-32-ST	150.00	mL/min	14.70 psia
032-20-GL	55.00	mL/min	14.70 psia	062-14-ST	300.00	mL/min	14.70 psia
022-24-SA	220.00	mL/min	14.70 psia	092-18-SA	2.5	L/min	14.70 psia
052-14-GL	1.00	L/min	14.70 psia	034-18-SA	10.00	L/min	14.70 psia
023-07-ST	2.00	L/min	14.70 psia				
014-18-GL	6.00	L/min	14.70 psia				
014-19-ST	10.00	L/min	14.70 psia				
064-08-ST	35.00	L/min	14.70 psia				

TABLE 15 - DIRECT READING FLOW TUBES FOR FUEL OIL

150mm			
FLOW TUBE	QMAX	[UNITS]	PRESSURE
034-60-GL	3.00	gph	14.70 psia

TABLE 16 - DIRECT READING FLOW TUBES FOR HELIUM

65mm				150mm			
FLOW TUBE	QMAX	[UNITS]	PRESSURE	FLOW TUBE	QMAX	[UNITS]	PRESSURE
032-07-SA	65.00	mL/min	14.70 psia	062-13-GL	100.00	mL/min	14.70 psia
022-02-GL	120.00	mL/min	14.70 psia	062-07-CA	500.00	mL/min	14.70 psia
014-04-GL	30.00	scfh	14.70 psia	082-05-GL	1500.00	mL/min	14.70 psia
				082-07-CA	5.00	L/min	14.70 psia
				034-09-ST	40.00	L/min	14.70 psia
				112-03-SA	1.25	scfh	14.70 psia

TABLE 17 - DIRECT READING FLOW TUBES FOR HYDROGEN

65mm				150mm			
FLOW TUBE	QMAX	[UNITS]	PRESSURE	FLOW TUBE	QMAX	[UNITS]	PRESSURE
032-13-GL	35.00	mL/min	14.70 psia	032-12-GL	100.00	mL/min	14.70 psia
042-01-ST	100.00	mL/min	14.70 psia	092-15-SA	20.00	scfh	14.70 psia
032-02-SA	150.00	mL/min	14.70 psia	044-20-SA	225.00	scfh	14.70 psia
012-01-GL	600.00	mL/min	14.70 psia				
022-01-CA	1.50	L/min	14.70 psia				
023-01-GL	3.50	L/min	14.70 psia				
013-01-GL	6.00	L/min	14.70 psia				
014-15-ST	42.00	L/min	14.70 psia				
013-08-ST	30.00	scfh	14.70 psia				