

### THROUGHPUT AND LEAK RATE

	Pa•m <sup>3</sup> /s	torr•l/s	atm cm <sup>3</sup> /s or std cc/s	μl/s	ft <sup>3</sup> (STP)/h
<b>1 Pa•m<sup>3</sup>/s</b>	1.0	7.5	9.87	7.50 (10 <sup>3</sup> )	1.26
<b>1 torr•l/s</b>	0.133	1.0	1.32	10 <sup>3</sup>	0.168
<b>1 atm cm<sup>3</sup>/s or 1 std cc/s</b>	0.101	0.76	1.0	760	127 (10 <sup>-3</sup> )
<b>1 μl/s</b>	1.3 (10 <sup>-4</sup> )	10 <sup>-3</sup>	1.32 (10 <sup>-3</sup> )	1.0	11.68 (10 <sup>-4</sup> )
<b>1 ft<sup>3</sup> (STP)/h</b>	0.794	5.96	787	5960	1.0

### VACUUM RANGES

<b>Rough (Low) Vacuum</b>	759 to 1 X 10 <sup>-3</sup> torr (approx.)
<b>High Vacuum</b>	1 X 10 <sup>-3</sup> to 1 X 10 <sup>-8</sup> torr (approx.)
<b>Ultra-High Vacuum</b>	Less than 1 X 10 <sup>-8</sup> torr

### WIRE GAUGE CONVERSION CHART

S.W.G. (inches)	Wire No. (Gauge)	A.W.G. or B&S (inches)	A.W.G. Metric (MM)	S.W.G. (inches)	Wire No. (Gauge)	A.W.G. or B&S (inches)	A.W.G. Metric (MM)	S.W.G. (inches)	Wire No. (Gauge)	A.W.G. or B&S (inches)	A.W.G. Metric (MM)
0.500	0000000 (7/0)	.....	.....	0.0920	13	0.0720	1,829	0.0092	34	0.0063	0,1601
0.464	000000 (6/0)	0.580000	.....	0.0800	14	0.0641	1,628	0.0084	35	0.0056	0,1422
0.432	00000 (5/0)	0.516500	.....	0.0720	15	0.0571	1,450	0.0076	36	0.0050	0,1270
0.400	0000 (4/0)	0.460000	11,684	0.0640	16	0.0508	1,291	0.0068	37	0.0045	0,1143
0.372	000 (3/0)	0.409642	10,404	0.0560	17	0.0453	1,150	0.0060	38	0.0040	0,1016
0.348	00 (2/0)	0.364796	9,266	0.0480	18	0.0403	1,024	0.0052	39	0.0035	0,0889
0.324	0 (1/0)	0.324861	8,252	0.0400	19	0.0359	0,9119	0.0048	40	0.0031	0,0787
0.300	1	0.289297	7,348	0.0360	20	0.0320	0,8128	0.0044	41	0.0028	0,0711
0.276	2	0.257627	6,543	0.0320	21	0.0285	0,7239	0.0040	42	0.0025	0,0635
0.252	3	0.229423	5,827	0.0280	22	0.0253	0,6426	0.0036	43	0.0022	0,0559
0.232	4	0.2043	5,189	0.0240	23	0.0226	0,5740	0.0032	44	0.0020	0,0508
0.2120	5	0.1819	4,621	0.0220	24	0.0201	0,5106	0.0028	45	0.0018	0,0457
0.1920	6	0.1620	4,115	0.0200	25	0.0179	0,4547	0.0024	46	0.0016	0,0406
0.1760	7	0.1443	3,665	0.0180	26	0.0159	0,4038	0.0020	47	0.0014	0,0350
0.1600	8	0.1285	3,264	0.0164	27	0.0142	0,3606	0.0016	48	0.0012	0,0305
0.1440	9	0.1144	2,906	0.0148	28	0.0126	0,3200	0.0012	49	0.0011	0,0279
0.1280	10	0.1019	2,588	0.0136	29	0.0113	0,2870	0.0010	50	0.0010	0,0254
0.1160	11	0.0907	2,304	0.0124	30	0.0100	0,2540		51	0.00088	0,0224
0.1040	12	0.0808	2,052	0.0116	31	0.0089	0,2261		52	0.00078	0,0198
				0.0108	32	0.0080	0,2032		53	0.00070	0,0178
				0.0100	33	0.0071	0,1803		54	0.00062	0,0158
									55	0.00055	0,0140
									56	0.00049	0,0124

TECHNICAL REFERENCE