

PENBERTHY

application report

Section 2000
 Application Report 2774.1
 Issued 05/05
 Replaces 05/95

For: **GAGES - INTERNAL LIQUID VOLUMES FOR RL, RM, TL, TM, RH AND TH PROCESS GAGE MODELS**

Section	Size	INTERNAL VOLUME							
		RL & RM		TL & TM		RH		TH	
		Cubic Inches	Liters	Cubic Inches	Liters	Cubic Inches	Liters	Cubic Inches	Liters
1	1	3.03	0.049	3.72	0.061	-	-	-	-
1	2	3.69	0.06	4.66	0.076	-	-	-	-
1	3	4.35	0.071	5.6	0.092	-	-	-	-
1	4	5.01	0.082	6.53	0.107	4.04	0.066	5.31	0.087
1	5	5.75	0.094	7.59	0.124	4.67	0.077	6.22	0.102
1	6	6.58	0.108	8.76	0.143	5.38	0.088	7.23	0.119
1	7	7.32	0.119	9.82	0.161	5.71	0.094	7.53	0.123
1	8	8.39	0.137	11.34	0.186	6.63	0.109	8.84	0.145
1	9	8.88	0.145	12.05	0.197	7.05	0.116	9.45	0.155
2	4	10.02	0.164	13.07	0.214	7.87	0.129	10.42	0.171
2	5	11.5	0.188	15.18	0.249	9.15	0.15	12.25	0.201
2	6	13.15	0.215	17.53	0.287	10.56	0.173	14.27	0.234
2	7	14.64	0.239	19.64	0.322	11.22	0.184	14.85	0.243
2	8	16.78	0.275	22.68	0.372	13.05	0.214	17.49	0.287
2	9	17.77	0.291	24.09	0.395	13.9	0.228	18.7	0.307
3	6	19.73	0.323	26.29	0.431	15.74	0.258	21.31	0.349
3	7	21.96	0.359	29.45	0.482	16.72	0.274	22.18	0.364
3	8	25.17	0.412	34.03	0.558	19.48	0.319	26.13	0.428
3	9	26.65	0.437	36.14	0.592	20.76	0.34	27.95	0.458
4	7	29.27	0.479	39.27	0.644	22.23	0.364	29.51	0.484
4	8	33.56	0.55	45.37	0.743	25.91	0.425	34.77	0.57
4	9	35.54	0.582	48.18	0.789	27.61	0.453	37.2	0.61
5	7	36.59	0.599	49.09	0.804	27.74	0.455	36.84	0.64
5	8	41.95	0.687	56.71	0.929	32.34	0.53	43.42	0.711
5	9	44.42	0.728	60.23	0.987	34.46	0.565	46.45	0.761
6	8	50.34	0.825	68.05	1.115	38.77	0.635	52.06	0.853
6	9	53.31	0.873	72.28	1.184	41.31	0.677	55.71	0.913
7	8	58.73	0.962	79.4	1.301	45.2	0.741	60.7	0.995
7	9	62.19	1.019	84.32	1.382	48.12	0.789	64.91	1.064
8	8	67.12	1.1	90.74	1.487	51.56	0.845	69.28	1.135
8	9	71.08	1.165	96.37	1.579	54.86	0.899	74.05	1.214
9	8	75.51	1.237	102.08	1.673	57.82	0.948	77.76	1.275
9	9	79.96	1.31	108.41	1.777	61.6	1.01	83.18	1.363
10	8	83.9	1.375	113.42	1.859	64.14	1.051	86.29	1.414
10	9	88.85	1.456	120.46	1.974	68.33	1.12	92.32	1.513

Volumes are based on nominal dimensions of steel chambers, taking into account: thread engagement, gasket compression, vision slots and nipple I.D. They have been tested against in-stock gages with accuracy tolerances of +/- 5%.

This information is not intended to imply that Penberthy gages can double as volume measurement instruments, but will give a close indication of a given gage volume. The use of Penberthy gages as a measurement instrument is the decision and responsibility of the end user.

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**For: GAGES - INTERNAL LIQUID VOLUMES FOR
 RLC, TLC AND TU PROCESS GAGE MODELS**

Section	Size	INTERNAL VOLUME					
		RLC (3/4" Ends)		TLC (3/4" Ends)		TU	
		Cubic Inches	Liters	Cubic Inches	Liters	Cubic Inches	Liters
1	1	--	--	--	--	2.620	0.043
1	2	--	--	--	--	--	--
1	3	--	--	--	--	3.540	0.058
1	4	19.120	0.313	20.900	0.343	3.990	0.065
1	5	22.210	0.036	24.300	0.398	4.510	0.074
1	6	25.640	0.420	28.080	0.460	--	--
1	7	28.600	0.469	31.210	0.512	5.600	0.092
1	8	33.060	0.542	36.130	0.592	--	--
1	9	35.120	0.576	38.400	0.629	--	--
2	1	--	--	--	--	4.400	0.072
2	3	--	--	--	--	6.230	0.102
2	4	41.240	0.676	44.790	0.734	7.150	0.117
2	5	47.420	0.777	51.600	0.846	8.180	0.134
2	6	54.280	0.890	59.160	0.970	--	--
2	7	60.190	0.987	65.420	1.072	10.350	0.169
2	8	69.110	1.133	75.250	1.233	--	--
2	9	73.230	1.200	79.790	1.308	--	--
3	6	83.920	1.359	90.230	1.479	--	--
3	7	91.780	1.504	99.630	1.633	--	--
3	8	105.160	1.724	114.370	1.875	--	--
3	9	111.34	1.825	121.18	1.986	--	--
4	7	123.37	2.022	133.84	2.194	--	--
4	8	141.22	2.315	153.5	2.516	--	--
4	9	149.45	2.45	162.57	2.665	--	--
5	7	154.97	2.54	168.05	2.754	--	--
5	8	177.27	2.905	192.62	3.157	--	--
5	9	187.56	3.074	203.96	3.343	--	--
6	8	213.32	3.496	231.74	3.798	--	--
6	9	225.67	3.699	245.35	4.021	--	--
7	8	249.38	4.087	270.87	4.439	--	--
7	9	263.79	4.323	286.74	4.7	--	--
8	8	285.43	4.678	309.99	5.081	--	--
8	9	301.9	4.948	328.13	5.378	--	--
9	8	321.48	5.269	349.11	5.722	--	--
9	9	340.01	5.573	369.52	6.056	--	--
10	8	357.53	5.86	388.24	6.363	--	--

Volumes are based on nominal dimensions of steel chambers, taking into account: thread engagement, gasket compression, vision slots and nipple I.D. They have been tested against in-stock gages with accuracy tolerances of +/- 5%.

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