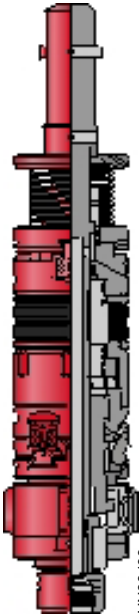


BRIDGE PLUGS



MODEL 3L RETRIEVABLE BRIDGE PLUG

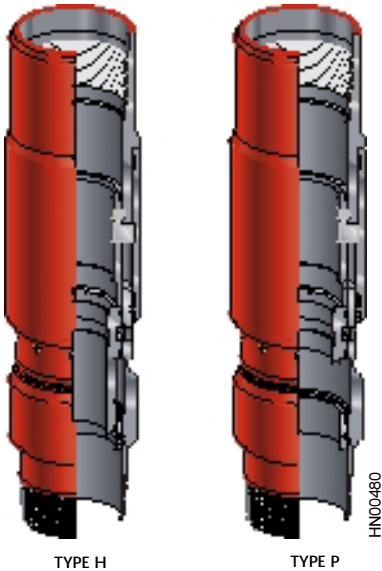
- Packer-type bridge plug highly adaptable to any zonal isolation procedure.
- Excellent for testing, fracturing, acidizing, or squeezing.
- Reduced tool body OD and a high-volume center-flow ID provides rapid run-in and retrieval, even through heavy wellbore fluids.
- Setting is simple, requiring only tubing manipulation and application of workstring weight.
- A Model 3L used with a Champ or RTTS packer provides reliable set/seal/release performance.



MODEL N QUICK RETRIEVABLE BRIDGE PLUG

- Utilizes differential pressure above or below to seal.
- Plug is easily released by opening concentric, integral bypass.
- Can be run with Champ or RTTS packers to treat, squeeze or test multiple zones.

ES™ MULTI-STAGE CEMENTERS



MULTI-STAGE CEMENTERS

Halliburton's full range of innovation products and techniques offers greater flexibility when planning the cementing program. One important method is multiple stage cementing, perfected by Halliburton. During this process, the slurry is placed around a casing string in several stages at predetermined points. Multiple stage cementing can be used when:

- The hydrostatic pressure of the cement is too great for the formation or casing.
- It is necessary to separate different types or blends of cement.
- Limited pump time is available.
- It is necessary to cement only certain sections of the annulus.

ES™ CEMENTER TOOLS

- Two configurations
 - Type P, plug-operated stage cementer.
 - Type H, hydraulically-operated stage cementer.
- PDC drillable.
- Smooth-bore drillout.
- Short, single piece mandrel.
- Adjustable operating pressure.

AVAILABLE FOR TUBINGLESS COMPLETIONS

SECTION No. 210

CAPACITY

NOTE:

There are some differences in the values in these tables and those previously published. The differences are slight and the former values are sufficiently accurate for dependable results.

The Values in these tables have been calculated on the IBM Computer.

NOTE: Plastic lined pipe may have variable ID's to those shown therein.

HALLIBURTON

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**TABLE
CAPACITY**

Size O.D. In.	Wt. per Ft. With Couplings, Lb.			Inside Diameter In.	Drift Diameter In.
	Non- Upset	Upset	Integral Joint		
1.050	1.14	1.20	1.20	.824	.730
1.315	1.70 —	1.80 —	1.72 *2.25	1.049 .957	.955 .848
1.660	— 2.30 —	— 2.40 —	2.10 2.33 *3.02	1.410 1.380 1.278	1.286 1.286 1.184
1.900	— 2.75 —	— 2.90 —	2.40 2.76 *3.64	1.650 1.610 1.500	1.516 1.516 1.406
2.063	—	—	3.25	1.751	1.657
2.375	4.00 4.60 — 5.80 — —	— 4.70 — 5.95 — —	— 4.70 5.30 5.95 *6.20 *7.70	2.041 1.995 1.939 1.867 1.853 1.703	1.947 1.901 1.845 1.773 1.759 1.609
2.875	6.40 — 8.60 — —	6.50 — 8.70 — —	6.50 7.90 8.70 *9.50 *10.70 *11.00	2.441 2.323 2.259 2.195 2.091 2.065	2.347 2.229 2.165 2.101 1.997 1.971
3.500	7.70 9.20 10.20 — 12.70 — —	— 9.30 — — 12.95 — —	— 9.30 10.30 *12.80 12.95 *15.80 *16.70	3.068 2.992 2.922 2.764 2.750 2.548 2.480	2.943 2.867 2.797 2.639 2.625 2.423 2.355
4.000	9.50 — — —	— 11.00 — —	— 11.00 *11.60 *13.40	3.548 3.476 3.428 3.340	3.423 3.351 3.303 3.215
4.500	12.60 — — —	12.75 — — —	12.75 *13.50 *15.50 *19.20	3.958 3.920 3.826 3.640	3.833 3.795 3.701 3.515

*Non-API Standard. Shown for information only.

NO. 211

OF TUBING

Gallons Per Lin. Ft.	Lin. Ft. Per Gallon	Barrels Per Lin. Ft.	Lin. Ft. Per Barrel	Cu. Ft. Per Lin. Ft.	Lin. Ft. Per Cu. Ft.
.0277	36.0983	.00066	1516.13	.00370	270.034
.0449	22.2736	.00107	935.49	.00600	166.618
.0374	26.7619	.00089	1124.00	.00500	200.193
.0811	12.3283	.00193	517.79	.01084	92.222
.0777	12.8701	.00185	540.55	.01039	96.275
.0666	15.0065	.00159	630.27	.00891	112.256
.1111	9.0027	.00264	378.11	.01485	67.345
.1058	9.4556	.00252	397.14	.01414	70.733
.0918	10.8933	.00219	457.52	.01227	81.487
.1251	7.9941	.00298	335.75	.01672	59.800
.1700	5.8838	.00405	247.12	.02272	44.014
.1624	6.1582	.00387	258.65	.02171	46.067
.1534	6.5191	.00365	273.80	.02051	48.766
.1422	7.0316	.00339	295.33	.01901	52.600
.1401	7.1382	.00334	299.81	.01873	53.398
.1183	8.4511	.00282	354.95	.01582	63.218
.2431	4.1134	.00579	172.76	.03250	30.771
.2202	4.5420	.00524	190.76	.02943	33.976
.2082	4.8030	.00496	201.72	.02783	35.929
.1966	5.0871	.00468	213.66	.02628	38.054
.1784	5.6057	.00425	235.44	.02385	41.934
.1740	5.7478	.00414	241.41	.02326	42.996
.3840	2.6039	.00914	109.37	.05134	19.479
.3652	2.7379	.00870	114.99	.04883	20.481
.3484	2.8707	.00829	120.57	.04657	21.474
.3117	3.2082	.00742	134.75	.04167	23.999
.3085	3.2410	.00735	136.12	.04125	24.244
.2649	3.7752	.00631	158.56	.03541	28.241
.2509	3.9851	.00597	167.37	.03355	29.811
.5136	1.9474	.01223	81.78	.06866	14.565
.4930	2.0285	.01174	85.20	.06590	15.174
.4794	2.0857	.01142	87.60	.06409	15.602
.4551	2.1971	.01084	92.28	.06084	16.435
.6392	1.5645	.01522	65.71	.08544	11.704
.6269	1.5950	.01493	66.99	.08381	11.932
.5972	1.6744	.01422	70.32	.07984	12.525
.5406	1.8499	.01287	77.69	.07227	13.838

TABLE
CAPACITY OF

Size O.D. In.	Weight Per Ft. With Couplings Lb.	I.D. In.	Gallons Per Lin. Ft.	Lin. Ft. Per Gallon
2 ³ / ₈	4.85	1.995	.1624	6.1582
	*6.65	1.815	.1344	7.4403
2 ⁷ / ₈	*6.45	2.469	.2487	4.0207
	6.85	2.441	.2431	4.1134
	*8.35	2.323	.2202	4.5420
	10.40	2.150	.1888	5.2974
3 ¹ / ₂	*8.50	3.063	.3828	2.6124
	9.50	2.992	.3652	2.7379
	*11.20	2.900	.3431	2.9144
	13.30	2.764	.3117	3.2082
	15.50	2.602	.2762	3.6201
4	11.85	3.476	.4930	2.0285
	14.00	3.340	.4551	2.1971
	*15.70	3.240	.4283	2.3348
4 ¹ / ₂	*12.75	4.000	.6528	1.5319
	13.75	3.958	.6392	1.5645
	16.60	3.826	.5972	1.6744
	20.00	3.640	.5406	1.8499
5	16.25	4.408	.7928	1.2614
	*19.50	4.276	.7460	1.3405
	*20.50	4.214	.7245	1.3802
5 ¹ / ₂	*21.90	4.778	.9314	1.0736
	*24.70	4.670	.8898	1.1238
5 ⁹ / ₁₆	*19.00	4.975	1.0098	.9903
	*22.20	4.859	.9633	1.0381
	*25.25	4.733	.9140	1.0941
6 ⁵ / ₈	*22.20	6.065	1.5008	.6663
	*25.20	5.965	1.4517	.6888
	*31.90	5.761	1.3541	.7385
7 ⁵ / ₈	*29.25	6.969	1.9815	.5047

NO. 212

INTERNAL UPSET DRILL PIPE**

Barrels Per Lin. Ft.	Lin. Ft. Per Barel	Cu. Ft. Per Lin. Ft.	Lin. Ft. Per Cu. ft.	Weight Per Ft. With Couplings Lb.	Size O.D. In.
.00386 .00320	258.65 312.49	.0217 .0180	46.067 55.657	4.85 *6.65	2 ³ / ₈
.00592 .00579 .00524 .00449	168.87 172.76 190.76 222.49	.0332 .0325 .0294 .0252	30.077 30.771 33.976 39.627	*6.45 6.85 *8.35 10.40	2 ⁷ / ₈
.00911 .00870 .00817 .00742 .00658	109.72 114.99 122.40 134.75 152.05	.0512 .0488 .0459 .0417 .0369	19.542 20.481 21.801 23.999 27.081	*8.50 9.50 *11.20 13.30 15.50	3 ¹ / ₂
.01174 .01084 .01020	85.20 92.28 98.06	.0659 .0608 .0573	15.174 16.435 17.466	11.85 14.00 *15.70	4
.01554 .01522 .01422 .01287	64.34 65.71 70.32 77.69	.0873 .0854 .0798 .0723	11.459 11.704 12.525 13.838	*12.75 13.75 16.60 20.00	4 ¹ / ₂
.01888 .01776 .01730	52.98 56.30 57.97	.1059 .0997 .0969	9.436 10.028 10.325	16.25 *19.50 *20.50	5
.02218 .02119	45.09 47.20	.1245 .1189	8.031 8.407	*21.90 *24.70	5 ¹ / ₂
.02404 .02294 .02176	41.59 43.60 45.95	.1350 .1288 .1222	7.408 7.766 8.185	*19.00 *22.20 *25.25	5 ⁹ / ₁₆
.03573 .03456 .03224	27.99 28.93 31.02	.2006 .1941 .1810	4.984 5.153 5.524	*22.20 *25.20 *31.90	6 ⁵ / ₈
.04718	21.20	.2649	3.775	*29.25	7 ⁵ / ₈

** No allowance made for internal restrictions of upsets and tool joints in this table. To allow for them, first find the capacity of the entire drill stem by using this Table, then deduct the total amount of internal restrictions of upsets obtained by using Table 132, and of Tool Joints obtained by using Table 133.

* Not API Standard. Shown for information only.

TABLE

CAPACITY OF EXTERNAL

Size O.D. In.	Weight Per Ft. With Couplings Lb.	I.D. In.	Gallons Per Lin. Ft.	Lin. Ft. Per Gallon
2 ³ / ₈	*4.85	1.995	.1624	6.1582
	6.65	1.815	.1344	7.4403
2 ⁷ / ₈	*6.85	2.441	.2431	4.1134
	10.40	2.151	.1888	5.2974
3 ¹ / ₂	*9.50	2.992	.3652	2.7379
	.13.30	2.764	.3117	3.2082
	15.50	2.602	.2762	3.6201
4	*11.85	3.476	.4930	2.0285
	14.00	3.340	.4551	2.1971
4 ¹ / ₂	*13.75	3.958	.6392	1.5646
	16.60	3.826	.5972	1.6744
	*18.15	3.754	.5750	1.7392
	20.00	3.640	.5406	1.8499
5	20.50	4.214	.7245	1.3802

NO. 212A

UPSET DRILL PIPE**

Barrels Per Lin. Ft.	Lin. Ft. Per Barrel	Cu. Ft. Per Lin. Ft.	Lin. Ft. Per Cu. Ft.	Wt/Ft. With Couplings Lb.	Size O.D. In.
.00386 .00320	258.65 312.49	.0217 .0180	46.067 55.657	*4.85 6.65	2 ³ / ₈
.00579 .00449	172.76 222.49	.0325 .0252	30.771 39.627	*6.85 10.40	2 ⁷ / ₈
.00870 .00742 .00658	114.99 134.75 152.05	.0488 .0417 .0369	20.481 23.999 27.081	*9.50 13.30 15.50	3 ¹ / ₂
.01174 .01084	85.20 92.28	.0659 .0608	15.174 16.435	*11.85 14.00	4
.01522 .01422 .01369 .01287	65.71 70.32 73.05 77.69	.0854 .0798 .0769 .0723	11.704 12.525 13.010 13.838	*13.75 16.60 18.15 20.00	4 ¹ / ₂
.01730	57.97	.0969	10.325	20.50	5

** No allowance made for Internal Restrictions of Joints and Upsets.

* Not Standard. Shown for information only.

TABLE

CAPACITY OF INTERNAL &

Size O.D. In.	Weight Per Ft. With Couplings Lb.	I.D. In.	Gallons Per Lin. Ft.	Lin. Ft. Per Gallon
2 ⁷ / ₈	*10.40	2.151	.1888	5.2974
3 ¹ / ₂	*13.30	2.764	.3117	3.2082
	*15.50	2.602	.2762	3.6201
4	*14.00	3.340	.4551	2.1971
	*15.30	3.244	.4294	2.3291
4 ¹ / ₂	*16.60	3.826	.5972	1.6744
	*18.15	3.754	.5750	1.7392
	20.00	3.640	.5406	1.8499
5	*16.25	4.408	.7928	1.2614
	19.50	4.276	.7460	1.3405
5 ¹ / ₂	21.90	4.778	.9314	1.0736
	24.70	4.670	.8898	1.1238
5 ⁹ / ₁₆	*22.20	4.859	.9633	1.0381
6 ⁵ / ₈	25.20	5.965	1.4517	.6888

NO. 212B

EXTERNAL UPSET DRILL PIPE**

Barrels Per Lin. Ft.	Lin. Ft. Per Barrel	Cu. Ft. Per Lin. Ft.	Lin. Ft. Per Cu. Ft.	Wt/Ft. With Couplings Lb.	Size O.D. In.
.00449	222.49	.0252	39.627	*10.40	2 ⁷ / ₈
.00742 .00658	134.75 152.05	.0417 .0369	23.999 27.081	*13.30 *15.50	3 ¹ / ₂
.01084 .01022	92.28 97.85	.0608 .0574	16.435 17.423	*14.00 *15.30	4
.01422 .01369 .01287	70.32 73.05 77.69	.0798 .0769 .0723	12.525 13.010 13.838	*16.60 *18.15 20.00	4 ¹ / ₂
.01888 .01776	52.98 56.30	.1059 .0997	9.436 10.028	*16.25 19.50	5
.02218 .02119	45.09 47.20	.1245 .1189	8.031 8.407	21.90 24.70	5 ¹ / ₂
.02294	43.60	.1288	7.766	22.20	5 ⁹ / ₁₆
.03456	28.93	.1941	5.153	25.20	6 ⁵ / ₈

** No allowance made for Internal Restrictions of Joints and Upsets.

* Not Standard. Shown for information only.

TABLE
CAPACITY

Diameter of Hole In.	Gallons Per Lin. Ft.	Lin. Ft. Per Gallon	Barrels Per Lin. Ft.
2	.1632	6.1275	.0039
2 ¹ / ₈	.1842	5.4278	.0044
2 ¹ / ₄	.2065	4.8415	.0049
2 ³ / ₈	.2301	4.3452	.0055
2 ¹ / ₂	.2550	3.9216	.0061
2 ⁵ / ₈	.2811	3.5570	.0067
2 ³ / ₄	.3085	3.2410	.0073
2 ⁷ / ₈	.3372	2.9653	.0080
3	.3672	2.7233	.0087
3 ¹ / ₈	.3984	2.5098	.0095
3 ¹ / ₄	.4309	2.3205	.0103
3 ³ / ₈	.4647	2.1518	.0111
3 ¹ / ₂	.4998	2.0008	.0119
3 ⁵ / ₈	.5361	1.8652	.0128
3 ³ / ₄	.5737	1.7429	.0137
3 ⁷ / ₈	.6126	1.6323	.0146
4	.6528	1.5319	.0155
4 ¹ / ₈	.6942	1.4404	.0165
4 ¹ / ₄	.7369	1.3569	.0175
4 ³ / ₈	.7809	1.2805	.0186
4 ¹ / ₂	.8262	1.2104	.0197
4 ⁵ / ₈	.8727	1.1458	.0208
4 ³ / ₄	.9205	1.0863	.0219
4 ⁷ / ₈	.9696	1.0313	.0231
5	1.0200	.9804	.0243
5 ¹ / ₈	1.0716	.9332	.0255
5 ¹ / ₄	1.1245	.8892	.0268
5 ³ / ₈	1.1787	.8484	.0281
5 ¹ / ₂	1.2342	.8102	.0294
5 ⁵ / ₈	1.2909	.7746	.0307
5 ³ / ₄	1.3489	.7413	.0321
5 ⁷ / ₈	1.4082	.7101	.0335
6	1.4688	.6808	.0350
6 ¹ / ₈	1.5306	.6533	.0364
6 ¹ / ₄	1.5937	.6275	.0379
6 ³ / ₈	1.6581	.6031	.0395
6 ¹ / ₂	1.7238	.5801	.0410
6 ⁵ / ₈	1.7907	.5584	.0426
6 ³ / ₄	1.8589	.5379	.0443
6 ⁷ / ₈	1.9284	.5186	.0459
7	1.9992	.5002	.0476
7 ¹ / ₈	2.0712	.4828	.0493
7 ¹ / ₄	2.1445	.4663	.0511
7 ³ / ₈	2.2191	.4506	.0528
7 ¹ / ₂	2.2950	.4357	.0546
7 ⁵ / ₈	2.3721	.4216	.0565
7 ³ / ₄	2.4505	.4081	.0583
7 ⁷ / ₈	2.5302	.3932	.0602

NO. 213

OF HOLE

Lin. Ft. Per Barrel	Cu. Ft. Per Lin. Ft.	Lin. Ft. Per Cu. Ft.	Diameter of Hole In.
257.3536	.0218	45.8366	2
227.9672	.0246	40.6027	2 ¹ / ₈
203.3411	.0276	36.2166	2 ¹ / ₄
182.5000	.0308	32.5046	2 ³ / ₈
164.7063	.0341	29.3354	2 ¹ / ₂
149.3934	.0376	26.6081	2 ⁵ / ₈
136.1209	.0412	24.2442	2 ³ / ₄
124.5416	.0451	22.1818	2 ⁷ / ₈
114.3794	.0491	20.3718	3
105.4120	.0533	18.7747	3 ¹ / ₈
97.4593	.0576	17.3582	3 ¹ / ₄
90.3738	.0621	16.0963	3 ³ / ₈
84.0338	.0668	14.9671	3 ¹ / ₂
78.3383	.0717	13.9526	3 ⁵ / ₈
73.2028	.0767	13.0380	3 ³ / ₄
68.5562	.0819	12.2104	3 ⁷ / ₈
64.3384	.0873	11.4592	4
60.4982	.0928	10.7752	4 ¹ / ₈
56.9918	.0985	10.1507	4 ¹ / ₄
53.7816	.1044	9.5789	4 ³ / ₈
50.8353	.1104	9.0541	4 ¹ / ₂
48.1245	.1167	8.5713	4 ⁵ / ₈
45.6250	.1231	8.1262	4 ³ / ₄
43.3153	.1296	7.7148	4 ⁷ / ₈
41.1766	.1364	7.3339	5
39.1924	.1433	6.9805	5 ¹ / ₈
37.3484	.1503	6.6520	5 ¹ / ₄
35.6314	.1576	6.3462	5 ³ / ₈
34.0302	.1650	6.0610	5 ¹ / ₂
32.5346	.1726	5.7947	5 ⁵ / ₈
31.1354	.1803	5.5455	5 ³ / ₄
29.8246	.1883	5.3120	5 ⁷ / ₈
28.5948	.1963	5.0930	6
27.4396	.2046	4.8872	6 ¹ / ₈
26.3530	.2131	4.6937	6 ¹ / ₄
25.3297	.2217	4.5114	6 ³ / ₈
24.3648	.2304	4.3396	6 ¹ / ₂
23.4541	.2394	4.1773	6 ⁵ / ₈
22.5935	.2485	4.0241	6 ³ / ₄
21.7793	.2578	3.8791	6 ⁷ / ₈
21.0085	.2673	3.7418	7
20.2778	.2769	3.6116	7 ¹ / ₈
19.5846	.2867	3.4882	7 ¹ / ₄
18.9263	.2967	3.3709	7 ³ / ₈
18.3007	.3068	3.2595	7 ¹ / ₂
17.7056	.3171	3.1535	7 ⁵ / ₈
17.1390	.3276	3.0526	7 ³ / ₄
16.5993	.3382	2.9565	7 ⁷ / ₈

TABLE
CAPACITY

Diameter of Hole In.	Gallons Per Lin. Ft.	Lin. Ft. Per Gallon	Barrels Per Lin. Ft.
8	2.6112	.3830	.0622
8 ¹ / ₈	2.6934	.3713	.0641
8 ¹ / ₄	2.7769	.3601	.0661
8 ³ / ₈	2.8617	.3494	.0681
8 ¹ / ₂	2.9478	.3392	.0702
8 ⁵ / ₈	3.0351	.3295	.0723
8 ³ / ₄	3.1237	.3201	.0744
8 ⁷ / ₈	3.2136	.3112	.0765
9	3.3048	.3026	.0787
9 ¹ / ₈	3.3972	.2944	.0809
9 ¹ / ₄	3.4909	.2865	.0831
9 ³ / ₈	3.5859	.2789	.0854
9 ¹ / ₂	3.6822	.2716	.0877
9 ⁵ / ₈	3.7797	.2646	.0900
9 ³ / ₄	3.8785	.2578	.0923
9 ⁷ / ₈	3.9786	.2513	.0947
10	4.0800	.2451	.0971
10 ¹ / ₈	4.1826	.2391	.0996
10 ¹ / ₄	4.2865	.2333	.1021
10 ³ / ₈	4.3917	.2277	.1046
10 ¹ / ₂	4.4982	.2223	.1071
10 ⁵ / ₈	4.6059	.2171	.1097
10 ³ / ₄	4.7149	.2121	.1123
10 ⁷ / ₈	4.8252	.2072	.1149
11	4.9368	.2026	.1175
11 ¹ / ₈	5.0496	.1980	.1202
11 ¹ / ₄	5.1637	.1937	.1229
11 ³ / ₈	5.2791	.1894	.1257
11 ¹ / ₂	5.3958	.1853	.1285
11 ⁵ / ₈	5.5137	.1814	.1313
11 ³ / ₄	5.6329	.1775	.1341
11 ⁷ / ₈	5.7534	.1738	.1370
12	5.8752	.1702	.1399
12 ¹ / ₈	5.9982	.1667	.1428
12 ¹ / ₄	6.1225	.1633	.1458
12 ³ / ₈	6.2481	.1600	.1488
12 ¹ / ₂	6.3750	.1569	.1518
12 ⁵ / ₈	6.5031	.1538	.1548
12 ³ / ₄	6.6325	.1508	.1579
12 ⁷ / ₈	6.7632	.1479	.1610
13	6.8952	.1450	.1642
13 ¹ / ₈	7.0284	.1423	.1673
13 ¹ / ₄	7.1629	.1396	.1705
13 ³ / ₈	7.2987	.1370	.1738
13 ¹ / ₂	7.4358	.1345	.1770
13 ⁵ / ₈	7.5741	.1320	.1803
13 ³ / ₄	7.7137	.1296	.1837
13 ⁷ / ₈	7.8546	.1273	.1870

NO. 213

OF HOLE

Lin. Ft. Per Barrel	Cu. Ft. Per Lin. Ft.	Lin. Ft. Per Cu. Ft.	Diameter of Hole In.
16.0846	.3491	2.8648	8
15.5935	.3601	2.7773	8 ¹ / ₈
15.1245	.3712	2.6938	8 ¹ / ₄
14.6764	.3826	2.6140	8 ³ / ₈
14.2479	.3941	2.5377	8 ¹ / ₂
13.8380	.4057	2.4646	8 ⁵ / ₈
13.4454	.4176	2.3947	8 ³ / ₄
13.0693	.4296	2.3277	8 ⁷ / ₈
12.7088	.4418	2.2635	9
12.3630	.4541	2.2019	9 ¹ / ₈
12.0311	.4667	2.1428	9 ¹ / ₄
11.7124	.4794	2.0861	9 ³ / ₈
11.4063	.4922	2.0315	9 ¹ / ₂
11.1119	.5053	1.9791	9 ⁵ / ₈
10.8288	.5185	1.9287	9 ³ / ₄
10.5564	.5319	1.8802	9 ⁷ / ₈
10.2941	.5454	1.8335	10
10.0415	.5591	1.7885	10 ¹ / ₈
9.7981	.5730	1.7451	10 ¹ / ₄
9.5634	.5871	1.7033	10 ³ / ₈
9.3371	.6013	1.6630	10 ¹ / ₂
9.1187	.6157	1.6241	10 ⁵ / ₈
8.9079	.6303	1.5866	10 ³ / ₄
8.7043	.6450	1.5503	10 ⁷ / ₈
8.5076	.6600	1.5153	11
8.3174	.6750	1.4814	11 ¹ / ₈
8.1336	.6903	1.4487	11 ¹ / ₄
7.9559	.7057	1.4170	11 ³ / ₈
7.7839	.7213	1.3864	11 ¹ / ₂
7.6174	.7371	1.3567	11 ⁵ / ₈
7.4561	.7530	1.3280	11 ³ / ₄
7.3000	.7691	1.3002	11 ⁷ / ₈
7.1487	.7854	1.2732	12
7.0021	.8018	1.2471	12 ¹ / ₈
6.8599	.8185	1.2218	12 ¹ / ₄
6.7220	.8353	1.1972	12 ³ / ₈
6.5883	.8522	1.1734	12 ¹ / ₂
6.4584	.8693	1.1503	12 ⁵ / ₈
6.3324	.8866	1.1279	12 ³ / ₄
6.2101	.9041	1.1061	12 ⁷ / ₈
6.0912	.9218	1.0849	13
5.9757	.9396	1.0643	13 ¹ / ₈
5.8635	.9575	1.0443	13 ¹ / ₄
5.7544	.9757	1.0249	13 ³ / ₈
5.6484	.9940	1.0060	13 ¹ / ₂
5.5452	1.0125	.9876	13 ⁵ / ₈
5.4448	1.0312	.9698	13 ³ / ₄
5.3472	1.0500	.9524	13 ⁷ / ₈

TABLE
CAPACITY

Diameter of Hole In.	Gallons Per Lin. Ft.	Lin. Ft. Per Gallon	Barrels Per Lin. Ft.
14	7.9968	.1251	.1904
14 ¹ / ₈	8.1402	.1228	.1938
14 ¹ / ₄	8.2849	.1207	.1973
14 ³ / ₈	8.4309	.1186	.2007
14 ¹ / ₂	8.5782	.1166	.2042
14 ⁵ / ₈	8.7267	.1146	.2078
14 ³ / ₄	8.8765	.1127	.2113
14 ⁷ / ₈	9.0276	.1108	.2149
15	9.1800	.1089	.2186
15 ¹ / ₈	9.3336	.1071	.2222
15 ¹ / ₄	9.4885	.1054	.2259
15 ³ / ₈	9.6447	.1037	.2296
15 ¹ / ₂	9.8022	.1020	.2334
15 ⁵ / ₈	9.9609	.1004	.2372
15 ³ / ₄	10.1209	.9888	.2410
15 ⁷ / ₈	10.2822	.973	.2448
16	10.4448	.957	.2487
16 ¹ / ₄	10.7737	.928	.2565
16 ¹ / ₂	11.1078	.900	.2645
16 ³ / ₄	11.4469	.874	.2725
17	11.7912	.848	.2807
17 ¹ / ₄	12.1405	.824	.2891
17 ¹ / ₂	12.4950	.800	.2975
17 ³ / ₄	12.8545	.778	.3061
18	13.2192	.756	.3147
18 ¹ / ₄	13.5889	.736	.3235
18 ¹ / ₂	13.9638	.716	.3325
18 ³ / ₄	14.3437	.697	.3415
19	14.7288	.679	.3507
19 ¹ / ₄	15.1189	.661	.3600
19 ¹ / ₂	15.5142	.645	.3694
19 ³ / ₄	15.9145	.628	.3789
20	16.3200	.613	.3886
20 ¹ / ₄	16.7305	.598	.3983
20 ¹ / ₂	17.1462	.583	.4082
20 ³ / ₄	17.5669	.569	.4183
21	17.9928	.556	.4284
21 ¹ / ₄	18.4237	.543	.4387
21 ¹ / ₂	18.8598	.530	.4490
21 ³ / ₄	19.3009	.518	.4595
22	19.7472	.506	.4702
22 ¹ / ₄	20.1985	.495	.4809
22 ¹ / ₂	20.6550	.484	.4918
22 ³ / ₄	21.1165	.474	.5028
23	21.5831	.463	.5139
23 ¹ / ₄	22.0549	.453	.5251
23 ¹ / ₂	22.5317	.444	.5365
23 ³ / ₄	23.0137	.435	.5479

NO. 213

OF HOLE

Lin. Ft. Per Barrel	Cu. Ft. Per Lin. Ft.	Lin. Ft. Per Cu. Ft.	Diameter of Hole In.
5.2521	1.0690	.9354	14
5.1596	1.0882	.9190	14 ¹ / ₈
5.0694	1.1075	.9029	14 ¹ / ₄
4.9817	1.1270	.8873	14 ³ / ₈
4.8961	1.1467	.8720	14 ¹ / ₂
4.8128	1.1666	.8572	14 ⁵ / ₈
4.7316	1.1866	.8427	14 ³ / ₄
4.6524	1.2068	.8286	14 ⁷ / ₈
4.5752	1.2272	.8149	15
4.4999	1.2477	.8015	15 ¹ / ₈
4.4264	1.2684	.7884	15 ¹ / ₄
4.3547	1.2893	.7756	15 ³ / ₈
4.2848	1.3104	.7631	15 ¹ / ₂
4.2165	1.3316	.7510	15 ⁵ / ₈
4.1498	1.3530	.7391	15 ³ / ₄
4.0847	1.3745	.7275	15 ⁷ / ₈
4.0211	1.3963	.7162	16
3.8984	1.4402	.6943	16 ¹ / ₄
3.7811	1.4849	.6734	16 ¹ / ₂
3.6691	1.5302	.6535	16 ³ / ₄
3.5620	1.5763	.6344	17
3.4595	1.6230	.6162	17 ¹ / ₄
3.3614	1.6703	.5987	17 ¹ / ₂
3.2673	1.7184	.5819	17 ³ / ₄
3.1772	1.7671	.5659	18
3.0908	1.8166	.5505	18 ¹ / ₄
3.0078	1.8667	.5357	18 ¹ / ₂
2.9281	1.9175	.5215	18 ³ / ₄
2.8516	1.9689	.5079	19
2.7780	2.0211	.4948	19 ¹ / ₄
2.7072	2.0739	.4822	19 ¹ / ₂
2.6391	2.1275	.4700	19 ³ / ₄
2.5735	2.1817	.4584	20
2.5104	2.2365	.4471	20 ¹ / ₄
2.4495	2.2921	.4363	20 ¹ / ₂
2.3909	2.3484	.4258	20 ³ / ₄
2.3343	2.4053	.4158	21
2.2797	2.4629	.4060	21 ¹ / ₄
2.2270	2.5212	.3966	21 ¹ / ₂
2.1761	2.5802	.3876	21 ³ / ₄
2.1269	2.6398	.3788	22
2.0794	2.7001	.3704	22 ¹ / ₄
2.0334	2.7612	.3622	22 ¹ / ₂
1.9890	2.8229	.3542	22 ³ / ₄
1.9460	2.8852	.3466	23
1.9043	2.9483	.3392	23 ¹ / ₄
1.8640	3.0121	.3320	23 ¹ / ₂
1.8250	3.0765	.3250	23 ³ / ₄

TABLE
CAPACITY

Diameter of Hole In.	Gallons Per Lin. Ft.	Lin. Ft. Per Gallon	Barrels Per Lin. Ft.
24	23.5007	.0426	.5595
24 ¹ / ₄	23.9929	.0417	.5713
24 ¹ / ₂	24.4901	.0408	.5831
24 ³ / ₄	24.9925	.0400	.5951
25	25.4999	.0392	.6071
25 ¹ / ₄	26.0125	.0384	.6193
25 ¹ / ₂	26.5301	.0377	.6317
25 ³ / ₄	27.0529	.0370	.6441
26	27.5807	.0363	.6567
26 ¹ / ₄	28.1137	.0356	.6694
26 ¹ / ₂	28.6517	.0349	.6822
26 ³ / ₄	29.1949	.0343	.6951
27	29.7431	.0336	.7082
27 ¹ / ₄	30.2965	.0330	.7213
27 ¹ / ₂	30.8549	.0324	.7346
27 ³ / ₄	31.4185	.0318	.7481
28	31.9871	.0313	.7616
28 ¹ / ₄	32.5609	.0307	.7753
28 ¹ / ₂	33.1397	.0302	.7890
28 ³ / ₄	33.7237	.0297	.8029
29	34.3127	.0291	.8170
29 ¹ / ₄	34.9069	.0286	.8311
29 ¹ / ₂	35.5061	.0282	.8454
29 ³ / ₄	36.1105	.0277	.8598
30	36.7199	.0272	.8743
30 ¹ / ₄	37.3345	.0268	.8889
30 ¹ / ₂	37.9541	.0263	.9037
30 ³ / ₄	38.5789	.0259	.9185
31	39.2087	.0255	.9335
31 ¹ / ₄	39.8437	.0251	.9487
31 ¹ / ₂	40.4837	.0247	.9639
31 ³ / ₄	41.1289	.0243	.9793
32	41.7791	.0239	.9947
32 ¹ / ₄	42.4345	.0236	1.0103
32 ¹ / ₂	43.0949	.0232	1.0261
32 ³ / ₄	43.7604	.0229	1.0419
33	44.4311	.0225	1.0579
33 ¹ / ₄	45.1068	.0222	1.0740
33 ¹ / ₂	45.7877	.0218	1.0902
33 ³ / ₄	46.4736	.0215	1.1065
34	47.1647	.0212	1.1230
34 ¹ / ₄	47.8608	.0209	1.1395
34 ¹ / ₂	48.5621	.0206	1.1562
34 ³ / ₄	49.2684	.0203	1.1731
35	49.9799	.0200	1.1900
35 ¹ / ₄	50.6964	.0197	1.2071
35 ¹ / ₂	51.4181	.0194	1.2242
35 ³ / ₄	52.1448	.0192	1.2415

NO. 213
OF HOLE

Lin. Ft. Per Barrel	Cu. Ft. Per Lin. Ft.	Lin. Ft. Per Cu. Ft.	Diameter of Hole In.
1.7872	3.1416	.3183	24
1.7505	3.2074	.3118	24 ¹ / ₄
1.7150	3.2739	.3055	24 ¹ / ₂
1.6805	3.3410	.2993	24 ³ / ₄
1.6471	3.4088	.2934	25
1.6146	3.4774	.2876	25 ¹ / ₄
1.5831	3.5466	.2820	25 ¹ / ₂
1.5525	3.6164	.2765	25 ³ / ₄
1.5228	3.6870	.2712	26
1.4939	3.7583	.2661	26 ¹ / ₄
1.4659	3.8302	.2611	26 ¹ / ₂
1.4386	3.9028	.2562	26 ³ / ₄
1.4121	3.9761	.2515	27
1.3863	4.0501	.2469	27 ¹ / ₄
1.3612	4.1247	.2424	27 ¹ / ₂
1.3368	4.2000	.2381	27 ³ / ₄
1.3130	4.2761	.2339	28
1.2899	4.3528	.2297	28 ¹ / ₄
1.2674	4.4301	.2257	28 ¹ / ₂
1.2454	4.5082	.2218	28 ³ / ₄
1.2240	4.5869	.2180	29
1.2032	4.6664	.2143	29 ¹ / ₄
1.1829	4.7465	.2107	29 ¹ / ₂
1.1631	4.8273	.2072	29 ³ / ₄
1.1438	4.9087	.2037	30
1.1250	4.9909	.2004	30 ¹ / ₄
1.1066	5.0737	.1971	30 ¹ / ₂
1.0887	5.1572	.1939	30 ³ / ₄
1.0712	5.2414	.1908	31
1.0541	5.3263	.1877	31 ¹ / ₄
1.0375	5.4119	.1848	31 ¹ / ₂
1.0212	5.4981	.1819	31 ³ / ₄
1.0053	5.5851	.1790	32
.9898	5.6727	.1763	32 ¹ / ₄
.9746	5.7610	.1736	32 ¹ / ₂
.9598	5.8499	.1709	32 ³ / ₄
.9453	5.9396	.1684	33
.9311	6.0299	.1658	33 ¹ / ₄
.9173	6.1209	.1634	33 ¹ / ₂
.9037	6.2126	.1610	33 ³ / ₄
.8905	6.3050	.1586	34
.8775	6.3981	.1563	34 ¹ / ₄
.8649	6.4918	.1540	34 ¹ / ₂
.8525	6.5862	.1518	34 ³ / ₄
.8403	6.6813	.1497	35
.8285	6.7771	.1476	35 ¹ / ₄
.8168	6.8736	.1455	35 ¹ / ₂
.8054	6.9707	.1435	35 ³ / ₄

TABLE
CAPACITY

Diameter of Hole In.	Gallons Per Lin. Ft.	Lin. Ft. Per Gallon	Barrels Per Lin. Ft.
36	52.8767	.0189	1.25897
36½	54.3557	.0184	1.29418
37	55.8551	.0179	1.32988
37½	57.3749	.0174	1.36607
38	58.9151	.0170	1.40274
38½	60.4757	.0165	1.43990
39	62.0566	.0161	1.47754
39½	63.6580	.0157	1.51567
40	65.2798	.0153	1.55428
40½	66.9220	.0149	1.59338
41	68.5846	.0146	1.63297
41½	70.2676	.0142	1.67304
42	71.9710	.0139	1.71360
42½	73.6948	.0136	1.75464
43	75.4390	.0133	1.79617
43½	77.2036	.0130	1.83818
44	78.9886	.0127	1.88068
44½	80.7940	.0124	1.92367
45	82.6198	.0121	1.96714
45½	84.4660	.0118	2.01110
46	86.3326	.0116	2.05554
46½	88.2196	.0113	2.10047
47	90.1270	.0111	2.14588
47½	92.0548	.0109	2.19178
48	94.0030	.0106	2.23817
48½	95.9716	.0104	2.28504
49	97.9606	.0102	2.33239
49½	99.9700	.0100	2.38024
50	101.9998	.0098	2.42857
50½	104.0499	.0096	2.47738
51	106.1206	.0094	2.52668
51½	108.2115	.0092	2.57647
52	110.3229	.0091	2.62674
52½	112.4547	.0089	2.67749
53	114.6069	.0087	2.72874
53½	116.7795	.0086	2.78046
54	118.9725	.0084	2.83268
54½	121.1859	.0083	2.88538
55	123.4197	.0081	2.93856
55½	125.6739	.0080	2.99224
56	127.9485	.0078	3.04639
56½	130.2435	.0077	3.10104
57	132.5589	.0075	3.15616
57½	134.8947	.0074	3.21178
58	137.2509	.0073	3.26788
58½	139.6275	.0072	3.32446
59	142.0245	.0070	3.38153
59½	144.4418	.0069	3.43909
60	146.8797	.0068	3.49713

NO. 213

OF HOLE

Lin. Ft. Per Barrel	Cu. Ft. Per Lin. Ft.	Lin. Ft. Per Cu. Ft.	Diameter of Hole In.
.79	7.06858	.141	36
.77	7.26630	.138	36 ¹ / ₂
.75	7.46674	.134	37
.73	7.66990	.130	37 ¹ / ₂
.71	7.87580	.127	38
.69	8.08442	.124	38 ¹ / ₂
.68	8.29577	.121	39
.66	8.50984	.118	39 ¹ / ₂
.64	8.72665	.115	40
.63	8.94618	.112	40 ¹ / ₂
.61	9.16843	.109	41
.60	9.39342	.106	41 ¹ / ₂
.58	9.62113	.104	42
.57	9.85157	.102	42 ¹ / ₂
.56	10.08473	.099	43
.54	10.32062	.097	43 ¹ / ₂
.53	10.55924	.095	44
.52	10.80059	.093	44 ¹ / ₂
.51	11.04466	.091	45
.50	11.29146	.089	45 ¹ / ₂
.49	11.54099	.087	46
.48	11.79324	.085	46 ¹ / ₂
.47	12.04823	.083	47
.46	12.30593	.081	47 ¹ / ₂
.45	12.56637	.080	48
.44	12.82953	.078	48 ¹ / ₂
.43	13.09542	.076	49
.42	13.36404	.075	49 ¹ / ₂
.41	13.63538	.073	50
.40	13.90946	.072	50 ¹ / ₂
.40	14.18626	.070	51
.39	14.46578	.069	51 ¹ / ₂
.38	14.74803	.068	52
.37	15.03301	.067	52 ¹ / ₂
.37	15.32072	.065	53
.36	15.61115	.064	53 ¹ / ₂
.35	15.90431	.063	54
.35	16.20020	.062	54 ¹ / ₂
.34	16.49881	.061	55
.33	16.80016	.060	55 ¹ / ₂
.33	17.10423	.058	56
.32	17.41102	.057	56 ¹ / ₂
.32	17.72055	.056	57
.31	18.03279	.055	57 ¹ / ₂
.31	18.34777	.055	58
.30	18.66548	.054	58 ¹ / ₂
.30	18.98591	.053	59
.29	19.30907	.052	59 ¹ / ₂
.29	19.63495	.051	60

**TABLE
CAPACITY**

Size O.D. In.	Wt. Per Ft. With Couplings Lb.	Inside Diameter In.	Drift Diameter In.	Gallons Per Lin. Ft.	Lin. Ft. Per Gallon
4½	9.50	4.090	3.965	.6825	1.4652
4½	10.50	4.052	3.927	.6699	1.4928
4½	11.60	4.000	3.875	.6528	1.5319
4½	13.50	3.920	3.795	.6269	1.5950
4½	15.10	3.826	3.701	.5972	1.6744
* 4½	16.60	3.754	3.629	.5750	1.7392
* 4½	18.80	3.640	3.515	.5406	1.8499
* 4¾	16.00	4.082	3.957	.6798	1.4709
5	11.50	4.560	4.435	.8484	1.1787
5	13.00	4.494	4.369	.8240	1.2136
5	15.00	4.408	4.283	.7928	1.2614
5	18.00	4.276	4.151	.7460	1.3405
* 5	20.30	4.184	4.059	.7142	1.4001
* 5	20.80	4.156	4.031	.7047	1.4190
* 5	21.00	4.154	4.029	.7040	1.4204
5	21.40	4.126	4.001	.6946	1.4397
* 5	23.20	4.044	3.919	.6672	1.4987
5	24.10	4.000	3.875	.6528	1.5319
* 5	24.20	4.000	3.875	.6528	1.5319
* 5½	13.00	5.044	4.919	1.0380	.9634
5½	14.00	5.012	4.887	1.0249	.9757
* 5½	15.00	4.974	4.849	1.0094	.9907
5½	15.50	4.950	4.825	.9997	1.0003
5½	17.00	4.892	4.767	.9764	1.0242
5½	20.00	4.778	4.653	.9314	1.0736
5½	23.00	4.670	4.545	.8898	1.1238
* 5½	26.00	4.548	4.423	.8439	1.1850
5½	26.80	4.500	4.375	.8262	1.2104
5½	29.70	4.376	4.251	.7813	1.2799
5½	32.60	4.250	4.125	.7370	1.3569
5½	35.30	4.126	4.001	.6946	1.4397
5½	38.00	4.000	3.875	.6528	1.5319
5½	40.50	3.876	3.751	.6130	1.6314
5½	43.10	3.750	3.625	.5738	1.7429
5⅝	26.70	4.671	—	.8902	1.1234
* 5¾	14.00	5.290	5.165	1.1417	.8758
5¾	16.50	5.198	—	1.1024	.9071
* 5¾	17.00	5.190	5.065	1.0990	.9099
5¾	18.10	5.142	—	1.0788	.9270
* 5¾	19.50	5.090	4.965	1.0570	.9460
5¾	19.70	5.080	—	1.0529	.9498
5¾	21.80	5.000	—	1.0200	.9804
* 5¾	22.50	4.990	4.865	1.0159	.9843
5¾	24.20	4.910	—	.9836	1.0167
* 6	15.00	5.524	5.399	1.2450	.8032
* 6	16.00	5.500	5.375	1.2342	.8102
* 6	17.00	5.450	5.325	1.2119	.8252
* 6	18.00	5.424	5.299	1.2003	.8331
* 6	20.00	5.352	5.227	1.1687	.8557
* 6	23.00	5.240	5.115	1.1203	.8926
* 6	26.00	5.140	5.015	1.0779	.9277

NO. 214

OF CASING

Barrels Per Lin. Ft.	Lin. Ft. Per Barrel	Cu. Ft. Per Lin. Ft.	Lin. Ft. Per Cu. Ft.	Wt. Per Ft. With Couplings Lb.	Size O.D. In.
.0162	61.54	.0912	10.960	9.50	4½
.0159	62.70	.0895	11.167	10.50	4½
.0155	64.34	.0872	11.459	11.60	4½
.0149	66.99	.0838	11.932	13.50	4½
.0142	70.32	.0798	12.525	15.10	4½
.0136	73.05	.0768	13.010	16.60	* 4½
.0128	77.69	.0722	13.838	18.80	* 4½
.0161	61.78	.0908	11.003	16.00	* 4¾
.0202	49.51	.1134	8.817	11.50	5
.0196	50.97	.1101	9.078	13.00	5
.0188	52.98	.1059	9.436	15.00	5
.0177	56.30	.0997	10.028	18.00	5
.0170	58.80	.0954	10.473	20.30	* 5
.0167	59.60	.0942	10.615	20.80	* 5
.0167	59.66	.0941	10.625	21.00	* 5
.0165	60.47	.0929	10.770	21.40	5
.0158	62.95	.0892	11.211	23.20	* 5
.0146	68.56	.0819	12.210	24.10	5
.0155	64.34	.0872	11.459	24.20	* 5
.0247	40.46	.1387	7.206	13.00	* 5½
.0244	40.98	.1370	7.299	14.00	5½
.0240	41.61	.1349	7.411	15.00	* 5½
.0238	42.01	.1336	7.483	15.50	5½
.0232	43.01	.1305	7.661	17.00	5½
.0221	45.09	.1245	8.031	20.00	5½
.0211	47.20	.1189	8.407	23.00	5½
.0200	49.77	.1128	8.864	26.00	* 5½
.0186	53.78	.1044	9.579	26.80	5½
.0176	56.97	.0986	10.146	29.70	5½
.0165	60.50	.0928	10.775	32.60	5½
.0156	64.31	.0873	11.453	35.30	5½
.0146	68.56	.0819	12.210	38.00	5½
.0137	73.16	.0767	13.031	40.50	5½
.0128	78.34	.0717	13.953	43.10	5½
.0212	47.18	.1190	8.403	26.70	5¾
.0271	36.79	.1526	6.552	14.00	* 5¾
.0262	38.10	.1474	6.786	16.50	5¾
.0261	38.22	.1469	6.807	17.00	* 5¾
.0257	38.93	.1442	6.934	18.10	5¾
.0251	39.73	.1413	7.077	19.50	* 5¾
.0251	39.89	.1408	7.105	19.70	5¾
.0243	41.18	.1364	7.334	21.80	5¾
.0241	41.34	.1358	7.363	22.50	* 5¾
.0234	42.70	.1315	7.605	24.20	5¾
.0296	33.74	.1664	6.008	15.00	* 6
.0293	34.03	.1649	6.061	16.00	* 6
.0288	34.66	.1620	6.173	17.00	* 6
.0285	34.99	.1604	6.232	18.00	* 6
.0278	35.94	.1562	6.401	20.00	* 6
.0266	37.49	.1497	6.677	23.00	* 6
.0256	38.96	.1441	6.940	26.00	* 6

*Not API Standard. Shown for information only.

TABLE
CAPACITY

Size O.D. In.	Wt. Per Ft. With Couplings Lb.	Inside Diameter In.	Drift Diameter In.	Gallons Per Lin. Ft.	Lin. Ft. Per Gallon
* 6 ⁵ / ₈	17.00	6.135	6.010	1.5356	.6512
6 ⁵ / ₈	20.00	6.049	5.924	1.4929	.6698
* 6 ⁵ / ₈	22.00	5.989	5.864	1.4634	.6833
6 ⁵ / ₈	24.00	5.921	5.796	1.4304	.6991
* 6 ⁵ / ₈	26.00	5.855	5.730	1.3987	.7150
6 ⁵ / ₈	28.00	5.791	5.666	1.3683	.7309
* 6 ⁵ / ₈	29.00	5.761	5.636	1.3541	.7385
6 ⁵ / ₈	32.00	5.675	5.550	1.3140	.7610
7	17.00	6.538	6.413	1.7440	.5734
7	20.00	6.456	6.331	1.7005	.5880
* 7	22.00	6.398	6.273	1.6701	.5988
7	23.00	6.366	6.241	1.6535	.6048
* 7	24.00	6.336	6.211	1.6379	.6105
7	26.00	6.276	6.151	1.6070	.6223
* 7	28.00	6.214	6.089	1.5754	.6347
7	29.00	6.184	6.059	1.5603	.6409
* 7	30.00	6.154	6.029	1.5452	.6472
7	32.00	6.094	5.969	1.5152	.6600
* 7	33.70	6.048	5.923	1.4924	.6701
7	35.00	6.004	5.879	1.4708	.6799
7	38.00	5.920	5.795	1.4299	.6994
* 7	40.00	5.836	5.711	1.3896	.7196
7	41.00	5.820	5.695	1.3820	.7236
7	42.70	5.750	5.625	1.3490	.7413
7	46.40	5.626	5.500	1.2914	.7744
7	50.10	5.500	5.375	1.2342	.8102
7	53.60	5.376	5.251	1.1792	.8480
7	57.10	5.250	5.125	1.1246	.8892
* 7 ⁵ / ₈	20.00	7.125	7.000	2.0712	.4828
7 ⁵ / ₈	24.00	7.025	6.900	2.0135	.4966
7 ⁵ / ₈	26.40	6.969	6.844	1.9815	.5047
7 ⁵ / ₈	29.70	6.875	6.750	1.9284	.5186
7 ⁵ / ₈	33.70	6.765	6.640	1.8672	.5356
7 ⁵ / ₈	39.00	6.625	6.500	1.7907	.5584
7 ⁵ / ₈	42.80	6.501	6.376	1.7243	.5799
* 7 ⁵ / ₈	45.30	6.435	6.310	1.6895	.5919
7 ⁵ / ₈	47.10	6.375	6.250	1.6581	.6031
7 ⁵ / ₈	51.20	6.251	6.126	1.5943	.6272
7 ⁵ / ₈	55.30	6.125	6.000	1.5306	.6533
* 7 ³ / ₄	45.30	6.560	6.500	1.7558	.5696
7 ³ / ₄	46.10	6.560	6.435	1.7558	.5695
* 8	26.00	7.386	7.261	2.2258	.4493
* 8 1/8	28.00	7.485	7.360	2.2858	.4375
* 8 1/8	32.00	7.385	7.260	2.2252	.4494
* 8 1/8	35.50	7.285	7.160	2.1653	.4618
* 8 1/8	39.50	7.185	7.060	2.1063	.4748
* 8 ⁵ / ₈	20.00	8.191	8.066	2.7374	.3653
* 8 ⁵ / ₈	24.00	8.097	7.972	2.6749	.3738
8 ⁵ / ₈	28.00	8.017	7.892	2.6223	.3813
8 ⁵ / ₈	32.00	7.921	7.796	2.5599	.3906
8 ⁵ / ₈	36.00	7.825	7.700	2.4982	.4003
* 8 ⁵ / ₈	38.00	7.775	7.650	2.4664	.4055
8 ⁵ / ₈	40.00	7.725	7.600	2.4348	.4107
* 8 ⁵ / ₈	43.00	7.651	7.526	2.3883	.4187
8 ⁵ / ₈	44.00	7.625	7.500	2.3721	.4216
8 ⁵ / ₈	49.00	7.511	7.386	2.3017	.4345

NO. 214

OF CASING

Barrels Per Lin. Ft.	Lin. Ft. Per Barrel	Cu. Ft. Per Lin. Ft.	Lin. Ft. Per Cu. Ft.	Wt. Per Ft. With Couplings Lb.	Size O.D. In.
.0365	27.35	.2052	4.871	17.00	* 6 ⁵ / ₈
.0355	28.13	.1995	5.011	20.00	6 ⁵ / ₈
.0348	28.70	.1956	5.112	22.00	* 6 ⁵ / ₈
.0340	29.36	.1912	5.230	24.00	6 ⁵ / ₈
.0333	30.03	.1869	5.348	26.00	* 6 ⁵ / ₈
.0325	30.70	.1829	5.467	28.00	6 ⁵ / ₈
.0322	31.02	.1810	5.524	29.00	* 6 ⁵ / ₈
.0312	31.96	.1756	5.693	32.00	6 ⁵ / ₈
.0415	24.08	.2331	4.289	17.00	7
.0404	24.70	.2273	4.399	20.00	7
.0397	25.15	.2232	4.479	22.00	* 7
.0393	25.40	.2210	4.524	23.00	7
.0390	25.64	.2189	4.567	24.00	* 7
.0382	26.14	.2148	4.655	26.00	7
.0375	26.66	.2106	4.748	28.00	* 7
.0371	26.92	.2085	4.794	29.00	7
.0367	27.18	.2065	4.841	30.00	* 7
.0360	27.72	.2025	4.937	32.00	7
.0355	28.14	.1995	5.012	33.70	* 7
.0350	28.56	.1966	5.086	35.00	7
.0340	29.37	.1911	5.232	38.00	7
.0330	30.22	.1857	5.383	40.00	* 7
.0329	30.39	.1847	5.413	41.00	7
.0321	31.14	.1803	5.545	42.70	7
.0307	32.52	.1726	5.793	46.40	7
.0294	34.03	.1650	6.061	50.10	7
.0281	35.62	.1576	6.344	53.60	7
.0268	37.35	.1503	6.652	57.10	7
.0493	20.28	.2768	3.612	20.00	* 7 ⁵ / ₈
.0479	20.86	.2691	3.715	24.00	7 ⁵ / ₈
.0471	21.20	.2648	3.775	26.40	7 ⁵ / ₈
.0459	21.78	.2577	3.879	29.70	7 ⁵ / ₈
.0444	22.49	.2496	4.006	33.70	7 ⁵ / ₈
.0426	23.45	.2393	4.177	39.00	7 ⁵ / ₈
.0411	24.36	.2305	4.338	42.80	7 ⁵ / ₈
.0402	24.86	.2258	4.428	45.30	* 7 ⁵ / ₈
.0395	25.33	.2217	4.511	47.10	7 ⁵ / ₈
.0380	26.34	.2131	4.692	51.20	7 ⁵ / ₈
.0364	27.44	.2046	4.887	55.30	7 ⁵ / ₈
.0418	23.92	.2347	4.261	45.30	* 7 ⁷ / ₈
.0418	23.92	.2347	4.261	46.10	7 ⁷ / ₈
.0529	18.87	.2975	3.361	26.00	* 8
.0544	18.37	.3055	3.273	28.00	* 8 ¹ / ₈
.0529	18.88	.2974	3.362	32.00	* 8 ¹ / ₈
.0515	19.40	.2894	3.455	35.50	* 8 ¹ / ₈
.0501	19.94	.2815	3.552	39.50	* 8 ¹ / ₈
.0652	15.34	.3659	2.733	20.00	* 8 ⁵ / ₈
.0636	15.70	.3575	2.797	24.00	* 8 ⁵ / ₈
.0624	16.02	.3505	2.853	28.00	8 ⁵ / ₈
.0609	16.41	.3422	2.922	32.00	8 ⁵ / ₈
.0594	16.81	.3339	2.994	36.00	8 ⁵ / ₈
.0587	17.03	.3297	3.033	38.00	* 8 ⁵ / ₈
.0579	17.25	.3254	3.072	40.00	8 ⁵ / ₈
.0568	17.59	.3192	3.132	43.00	* 8 ⁵ / ₈
.0564	17.71	.3171	3.154	44.00	8 ⁵ / ₈
.0548	18.25	.3077	3.250	49.00	8 ⁵ / ₈

*Not API Standard. Shown for information only.

TABLE
CAPACITY

Size O.D. In.	Wt. Per Ft. With Couplings Lb.	Inside Diameter In.	Drift Diameter In.	Gallons Per Lin. Ft.	Lin. Ft. Per Gallon
* 9	34.00	8.290	8.134	2.8039	.3566
* 9	38.00	8.196	8.040	2.7407	.3649
* 9	40.00	8.150	7.994	2.7100	.3690
* 9	45.00	8.032	7.876	2.6321	.3799
* 9	55.00	7.812	7.656	2.4899	.4016
* 9 ⁵ / ₈	29.30	9.063	8.907	3.3512	.2984
9 ⁵ / ₈	32.30	9.001	8.845	3.3055	.3025
9 ⁵ / ₈	36.00	8.921	8.765	3.2470	.3080
* 9 ⁵ / ₈	38.00	8.885	8.760	3.2209	.3105
9 ⁵ / ₈	40.00	8.835	8.679	3.1847	.3140
9 ⁵ / ₈	43.50	8.755	8.599	3.1273	.3198
9 ⁵ / ₈	47.00	8.681	8.525	3.0747	.3252
9 ⁵ / ₈	53.50	8.535	8.379	2.9721	.3365
* 9 ⁵ / ₈	58.40	8.435	8.279	2.9029	.3445
9 ⁵ / ₈	59.40	8.407	8.251	2.8837	.3468
* 9 ⁵ / ₈	61.10	8.375	8.219	2.8617	.3494
9 ⁵ / ₈	64.90	8.281	8.125	2.7979	.3574
9 ⁵ / ₈	70.30	8.157	8.001	2.7147	.3684
* 9 ⁵ / ₈	71.80	8.125	7.969	2.6934	.3713
9 ⁵ / ₈	75.60	8.031	7.875	2.6315	.3800
9 ³ / ₄	59.20	8.560	—	2.9896	.3345
9 ⁷ / ₈	62.80	8.625	—	3.0351	.3295
* 10 ³ / ₄	35.75	10.136	9.980	4.1917	.2386
10 ³ / ₄	40.50	10.050	9.894	4.1209	.2427
10 ³ / ₄	45.50	9.950	9.794	4.0393	.2476
10 ³ / ₄	51.00	9.850	9.694	3.9585	.2526
* 10 ³ / ₄	54.00	9.784	9.628	3.9056	.2560
10 ³ / ₄	55.50	9.760	9.604	3.8865	.2573
10 ³ / ₄	60.70	9.660	9.504	3.8073	.2627
10 ³ / ₄	65.70	9.560	9.404	3.7288	.2682
* 10 ³ / ₄	71.10	9.450	9.294	3.6435	.2745
10 ³ / ₄	73.20	9.406	9.250	3.6097	.2770
10 ³ / ₄	79.20	9.282	9.126	3.5152	.2845
10 ³ / ₄	85.30	9.156	9.000	3.4204	.2924
* 11 ³ / ₄	38.00	11.150	10.994	5.0723	.1971
11 ³ / ₄	42.00	11.084	10.928	5.0125	.1995
11 ³ / ₄	47.00	11.000	10.844	4.9368	.2026
11 ³ / ₄	54.00	10.880	10.724	4.8297	.2071
11 ³ / ₄	60.00	10.772	10.616	4.7343	.2112
* 11 ³ / ₄	65.00	10.682	10.526	4.6555	.2148
11 ³ / ₄	71.00	10.583	10.430	4.5696	.2188
11 ⁷ / ₈	71.80	10.711	—	4.6808	.2136
* 12	40.00	11.384	11.228	5.2875	.1891
* 13	40.00	12.438	12.282	6.3119	.1584
* 13	45.00	12.360	12.204	6.2330	.1604
* 13	50.00	12.282	12.126	6.1546	.1625
* 13	54.00	12.220	12.064	6.0926	.1641

NO. 214

OF CASING

Barrels Per Lin. Ft.	Lin. Ft. Per Barrel	Cu. Ft. Per Lin. Ft.	Lin. Ft. Per Cu. Ft.	Wt. Per Ft. With Couplings Lb.	Size O.D. In.
.0667	14.98	.3748	2.668	34.00	* 9
.0653	15.32	.3664	2.729	38.00	* 9
.0645	15.50	.3622	2.760	40.00	* 9
.0626	15.96	.3518	2.842	45.00	* 9
.0592	16.87	.3328	3.004	55.00	* 9
.0797	12.53	.4479	2.232	29.30	* 9 ⁵ / ₈
.0787	12.71	.4418	2.263	32.30	9 ⁵ / ₈
.0773	12.93	.4340	2.304	36.00	9 ⁵ / ₈
.0766	13.04	.4305	2.323	38.00	* 9 ⁵ / ₈
.0758	13.19	.4257	2.349	40.00	9 ⁵ / ₈
.0744	13.43	.4180	2.392	43.50	9 ⁵ / ₈
.0732	13.66	.4110	2.433	47.00	9 ⁵ / ₈
.0707	14.13	.3973	2.517	53.50	9 ⁵ / ₈
.0691	14.47	.3880	2.577	58.40	* 9 ⁵ / ₈
.0687	14.56	.3855	2.594	59.40	9 ⁵ / ₈
.0681	14.68	.3825	2.614	61.10	* 9 ⁵ / ₈
.0666	15.01	.3740	2.674	64.90	9 ⁵ / ₈
.0646	15.47	.3629	2.756	70.30	9 ⁵ / ₈
.0641	15.59	.3600	2.777	71.80	* 9 ⁵ / ₈
.0627	15.96	.3518	2.843	75.60	9 ⁵ / ₈
.0712	14.05	.3996	2.502	59.20	9 ³ / ₈
.0723	13.84	.4057	2.465	62.80	9 ³ / ₈
.0998	10.02	.5603	1.785	35.75	* 10 ³ / ₈
.0981	10.19	.5508	1.815	40.50	10 ³ / ₈
.0961	10.40	.5399	1.852	45.50	10 ³ / ₈
.0942	10.61	.5291	1.890	51.00	10 ³ / ₈
.0929	10.75	.5221	1.915	54.00	* 10 ³ / ₈
.0925	10.81	.5195	1.925	55.50	10 ³ / ₈
.0906	11.03	.5089	1.965	60.70	10 ³ / ₈
.0887	11.26	.4984	2.006	65.70	10 ³ / ₈
.0867	11.53	.4870	2.053	71.10	* 10 ³ / ₈
.0859	11.64	.4825	2.072	73.20	10 ³ / ₈
.0837	11.95	.4699	2.128	79.20	10 ³ / ₈
.0814	12.28	.4572	2.187	85.30	10 ³ / ₈
.1207	8.28	.6780	1.475	38.00	* 11 ³ / ₈
.1193	8.38	.6700	1.492	42.00	11 ³ / ₈
.1175	8.51	.6599	1.515	47.00	11 ³ / ₈
.1149	8.70	.6456	1.549	54.00	11 ³ / ₈
.1127	8.87	.6328	1.580	60.00	11 ³ / ₈
.1108	9.02	.6223	1.607	65.00	* 11 ³ / ₈
.1088	9.19	.6109	1.637	71.00	11 ³ / ₈
.1114	8.97	.6257	1.598	71.80	11 ³ / ₈
.1258	7.94	.7068	1.415	40.00	* 12
.1502	6.65	.8437	1.185	40.00	* 13
.1484	6.74	.8332	1.200	45.00	* 13
.1465	6.82	.8227	1.215	50.00	* 13
.1450	6.89	.8144	1.228	54.00	* 13

*Not API Standard. Shown for information only.

**TABLE
CAPACITY**

Size O.D. In.	Wt. Per Ft. With Couplings Lb.	Inside Diameter In.	Drift Diameter In.	Gallons Per Lin. Ft.	Lin. Ft. Per Gallon
13 ³ / ₈	48.00	12.715	12.559	6.5962	.1516
13 ³ / ₈	54.50	12.615	12.459	6.4928	.1540
13 ³ / ₈	61.00	12.515	12.359	6.3903	.1565
13 ³ / ₈	68.00	12.415	12.259	6.2886	.1590
13 ³ / ₈	72.00	12.347	12.191	6.2199	.1608
* 13 ³ / ₈	77.00	12.275	12.119	6.1476	.1627
13 ³ / ₈	80.70	12.215	12.059	6.0876	.1643
* 13 ³ / ₈	83.00	12.175	12.019	6.0478	.1653
* 13 ³ / ₈	85.00	12.159	12.003	6.0319	.1658
13 ³ / ₈	86.00	12.125	11.696	5.9983	.1667
* 13 ³ / ₈	98.00	11.937	11.781	5.8137	.1720
13 ¹ / ₂	81.40	12.340	—	6.2129	.1610
13 ⁵ / ₈	88.20	12.375	—	6.2482	.1600
* 14	50.00	13.344	13.156	7.2649	.1376
16	65.00	15.250	15.062	9.4885	.1054
* 16	70.00	15.198	15.010	9.4239	.1061
16	75.00	15.124	14.936	9.3324	.1072
16	84.00	15.010	14.822	9.1922	.1088
16	95.00	14.868	—	9.0192	.1109
16	97.00	14.850	—	8.9973	.1111
* 16	109.00	14.688	14.500	8.8021	.1136
16	118.00	14.570	14.382	8.6612	.1155
* 18 ⁵ / ₈	78.00	17.855	17.667	13.0070	.0769
18 ⁵ / ₈	87.50	17.755	17.567	12.8618	.0777
18 ⁵ / ₈	94.50	17.689	17.501	12.7664	.0783
* 18 ⁵ / ₈	96.50	17.655	17.467	12.7173	.0786
18 ⁵ / ₈	106.00	17.563	17.375	12.5852	.0795
18 ⁵ / ₈	117.50	17.439	17.251	12.4081	.0806
* 20	90.00	19.166	18.978	14.9872	.0667
20	94.00	19.124	18.936	14.9216	.0670
20	106.50	19.000	18.812	14.7288	.0679
20	133.00	18.730	18.542	14.3131	.0699
20	169.00	18.376	18.188	13.7773	.0726
* 21 ¹ / ₂	92.50	20.710	20.522	17.4992	.0571
* 21 ¹ / ₂	103.00	20.610	20.422	17.3307	.0577
* 21 ¹ / ₂	114.00	20.510	20.322	17.1629	.0583
* 24 ¹ / ₂	100.50	23.750	23.562	23.0137	.0435
* 24 ¹ / ₂	113.00	23.650	23.462	22.8203	.0438

NO. 214

OF CASING

Barrels Per Lin. Ft.	Lin. Ft. Per Barrel	Cu. Ft. Per Lin. Ft.	Lin. Ft. Per Cu. Ft.	Wt. Per Ft. With Couplings Lb.	Size O.D. In.
.1570	6.37	.8817	1.134	48.00	13 ³ / ₈
.1545	6.47	.8679	1.152	54.50	13 ³ / ₈
.1521	6.57	.8542	1.171	61.00	13 ³ / ₈
.1497	6.68	.8406	1.190	68.00	13 ³ / ₈
.1480	6.75	.8314	1.203	72.00	13 ³ / ₈
.1463	6.83	.8218	1.217	77.00	* 13 ³ / ₈
.1449	6.90	.8138	1.229	80.70	13 ³ / ₈
.1440	6.94	.8084	1.237	83.00	* 13 ³ / ₈
.1436	6.96	.8063	1.240	85.00	* 13 ³ / ₈
.1428	7.00	.8018	1.247	86.00	13 ³ / ₈
.1384	7.22	.7771	1.287	98.00	* 13 ³ / ₈
.1479	6.76	.8305	1.204	81.40	13 ¹ / ₂
.1488	6.72	.8353	1.197	88.20	13 ⁵ / ₈
.1729	5.78	.9711	1.030	50.00	* 14
.2259	4.43	1.2684	.788	65.00	16
.2243	4.46	1.2598	.794	70.00	* 16
.2222	4.50	1.2475	.802	75.00	16
.2188	4.57	1.2288	.814	84.00	16
.2147	4.66	1.2057	.829	95.00	16
.2142	4.67	1.2028	.831	97.00	16
.2095	4.77	1.1766	.850	109.00	* 16
.2062	4.85	1.1578	.864	118.00	16
.3096	3.23	1.7387	.575	78.00	* 18 ⁵ / ₈
.3062	3.27	1.7193	.582	87.50	18 ⁵ / ₈
.3040	3.29	1.7066	.586	94.50	18 ⁵ / ₈
.3027	3.30	1.7000	.588	96.50	* 18 ⁵ / ₈
.2996	3.34	1.6824	.594	106.00	18 ⁵ / ₈
.2954	3.38	1.6587	.603	117.50	18 ⁵ / ₈
.3568	2.80	2.0035	.499	90.00	* 20
.3552	2.81	1.9947	.501	94.00	20
.3506	2.85	1.9689	.508	106.50	20
.3407	2.93	1.9133	.523	133.00	20
.3280	3.05	1.8417	.543	169.00	20
.4166	2.40	2.3393	.427	92.50	* 21 ¹ / ₂
.4126	2.42	2.3167	.432	103.00	* 21 ¹ / ₂
.4086	2.45	2.2943	.436	114.00	* 21 ¹ / ₂
.5479	1.83	3.0764	.325	100.50	* 24 ¹ / ₂
.5433	1.84	3.0506	.328	113.00	* 24 ¹ / ₂

*Not API Standard. Shown for information only.

TABLE
CAPACITY OF HYDRIL

Size O.D. In.	Wt. Per Ft. Lb.	Inside Diameter In.	Drift Diameter In.	Joint Dimensions		Gallons Per Lin. Ft.
				O.D. In.	I.D. In.	
4½	11.00	4.026	3.901	4.718	3.930	.6613
4½	11.60	4.000	3.875	4.718	3.920	.6528
4½	12.60	3.958	3.833	4.718	3.878	.6392
4½	13.50	3.920	3.795	4.718	3.840	.6269
4½	15.10	3.826	3.701	4.750	3.746	.5972
4½	16.60	3.754	3.629	4.750	3.674	.5750
4½	18.80	3.640	3.515	4.750	3.560	.5406
5	13.00	4.494	4.369	5.218	4.414	.8240
5	15.00	4.408	4.283	5.218	4.328	.7928
5	18.00	4.276	4.151	5.250	4.196	.7460
5	20.30	4.184	4.059	5.250	4.104	.7142
5	23.20	4.044	3.919	5.250	3.964	.6672
5½	14.00	5.012	4.887	5.750	4.932	1.0249
5½	15.50	4.950	4.825	5.750	4.870	.9997
5½	17.00	4.892	4.767	5.781	4.812	.9764
5½	20.00	4.778	4.653	5.781	4.698	.9314
5½	23.00	4.670	4.545	5.781	4.590	.8898
5½	26.00	4.548	4.423	5.781	4.468	.8439
7	20.00	6.456	6.331	7.312	6.376	1.7005
7	23.00	6.366	6.241	7.312	6.286	1.6535
7	26.00	6.276	6.151	7.312	6.196	1.6070
7	29.00	6.184	6.059	7.312	6.104	1.5603
7	32.00	6.094	5.969	7.343	6.014	1.5152
7	35.00	6.004	5.879	7.343	5.924	1.4708
7	38.00	5.920	5.795	7.343	5.840	1.4299
7½	26.40	6.969	6.844	7.937	6.889	1.9815
7½	29.70	6.875	6.750	7.937	6.795	1.9284
7½	33.70	6.765	6.640	8.000	6.685	1.8672
7½	39.00	6.625	6.500	8.000	6.545	1.7907
7½	45.30	6.435	6.310	8.000	6.355	1.6895
8½	32.00	7.921	7.796	8.937	7.811	2.5599
8½	36.00	7.825	7.700	8.937	7.745	2.4982
8½	40.00	7.725	7.600	8.937	7.645	2.4348
8½	44.00	7.625	7.500	9.031	7.545	2.3721
8½	49.00	7.511	7.386	9.031	7.431	2.3017
9½	36.00	8.921	8.765	10.000	8.781	3.2470
9½	40.00	8.835	8.679	10.000	8.755	3.1847
9½	43.50	8.755	8.599	10.000	8.675	3.1273
9½	47.00	8.681	8.525	10.000	8.601	3.0747
9½	53.50	8.535	8.379	10.062	8.455	2.9721
9½	58.40	8.435	8.279	9.750	8.355	2.9029
10¾	40.50	10.050	9.894	11.187	9.910	4.1209
10¾	45.50	9.950	9.794	11.187	9.870	4.0393
10¾	51.00	9.850	9.694	11.187	9.770	3.9585
10¾	55.50	9.760	9.604	11.187	9.680	3.8865
10¾	60.70	9.660	9.504	11.250	9.580	3.8073
10¾	65.70	9.560	9.404	11.250	9.480	3.7288
11¾	47.00	11.000	10.844	11.937	10.890	4.9368
11¾	54.00	10.880	10.724	11.937	10.800	4.8297
11¾	60.00	10.772	10.616	11.937	10.692	4.7343
11¾	65.00	10.682	10.526	11.937	10.600	4.6555

NO. 216

EXTERNAL UPSET CASING*

Lin. Ft. Per Gallon	Barrels Per Lin. Ft.	Lin. Ft. Per Barrel	Cu. Ft. Per Lin. Ft.	Lin. Ft. Per Cu. Ft.	Wt. Per Ft. Lb.	Size O.D. In.
1.5121	.0157	63.51	.0884	11.312	11.00	4 1/2
1.5319	.0155	64.34	.0872	11.459	11.60	4 1/2
1.5646	.0152	65.71	.0854	11.704	12.60	4 1/2
1.5950	.0149	66.99	.0838	11.932	13.50	4 1/2
1.6744	.0142	70.32	.0798	12.525	15.10	4 1/2
1.7392	.0136	73.05	.0768	13.010	16.60	4 1/2
1.8499	.0128	77.69	.0722	13.838	18.80	4 1/2
1.2136	.0196	50.97	.1101	9.078	13.00	5
1.2614	.0188	52.98	.1059	9.436	15.00	5
1.3405	.0177	56.30	.0997	10.028	18.00	5
1.4001	.0170	58.80	.0954	10.473	20.30	5
1.4987	.0158	62.95	.0892	11.211	23.20	5
.9757	.0244	40.98	.1370	7.299	14.00	5 1/2
1.0003	.0238	42.01	.1336	7.483	15.50	5 1/2
1.0242	.0232	43.01	.1305	7.661	17.00	5 1/2
1.0736	.0221	45.09	.1245	8.031	20.00	5 1/2
1.1238	.0211	47.20	.1189	8.407	23.00	5 1/2
1.1850	.0200	49.77	.1128	8.864	26.00	5 1/2
.5880	.0404	24.70	.2273	4.399	20.00	7
.6048	.0393	25.40	.2210	4.524	23.00	7
.6223	.0382	26.14	.2148	4.655	26.00	7
.6409	.0371	26.92	.2085	4.794	29.00	7
.6600	.0360	27.72	.2025	4.937	32.00	7
.6799	.0350	28.56	.1966	5.086	35.00	7
.6994	.0340	29.37	.1911	5.232	38.00	7
.5047	.0471	21.20	.2648	3.775	26.40	7 5/8
.5186	.0459	21.78	.2577	3.879	29.70	7 5/8
.5356	.0444	22.49	.2496	4.006	33.70	7 5/8
.5584	.0426	23.45	.2393	4.177	39.00	7 5/8
.5919	.0402	24.86	.2258	4.428	45.30	7 5/8
.3906	.0609	16.41	.3422	2.922	32.00	8 5/8
.4003	.0594	16.81	.3339	2.994	36.00	8 5/8
.4107	.0579	17.25	.3254	3.072	40.00	8 5/8
.4216	.0564	17.71	.3171	3.154	44.00	8 5/8
.4345	.0548	18.25	.3077	3.250	49.00	8 5/8
.3080	.0773	12.93	.4340	2.304	36.00	9 5/8
.3140	.0758	13.19	.4257	2.349	40.00	9 5/8
.3198	.0744	13.43	.4180	2.392	43.50	9 5/8
.3252	.0732	13.66	.4110	2.433	47.00	9 5/8
.3365	.0707	14.13	.3973	2.517	53.50	9 5/8
.3445	.0691	14.47	.3880	2.577	58.40	9 5/8
.2427	.0981	10.19	.5508	1.815	40.50	10 3/4
.2476	.0961	10.40	.5399	1.852	45.50	10 3/4
.2526	.0942	10.61	.5291	1.890	51.00	10 3/4
.2573	.0925	10.81	.5195	1.925	55.50	10 3/4
.2627	.0906	11.03	.5089	1.965	60.70	10 3/4
.2682	.0887	11.26	.4984	2.006	65.70	10 3/4
.2026	.1175	8.51	.6599	1.515	47.00	11 3/4
.2071	.1149	8.70	.6456	1.549	54.00	11 3/4
.2112	.1127	8.87	.6328	1.580	60.00	11 3/4
.2148	.1108	9.02	.6223	1.607	65.00	11 3/4

*No Allowance Made for Internal Restrictions of Joints and Upsets.

Not API Standard. Shown for information only.

TABLE
CAPACITY OF

Size O.D. In.	Wt. Per Ft. Lb.	Inside Diameter In.	Drift Diameter In.	Joint Dimensions		Gallons Per Lin. Ft.
				O.D. In.	I.D. In.	
5	15.00	4.408	4.151	5.360	4.198	.7928
5	18.00	4.276	4.151	5.360	4.198	.7460
5½	15.50	4.950	4.653	5.860	4.736	.9997
5½	17.00	4.892	4.653	4.860	4.701	.9764
5½	20.00	4.778	4.653	5.860	4.701	.9314
5½	23.00	4.670	4.545	5.860	4.610	.8898
6⅝	24.00	5.921	5.730	7.000	5.781	1.4304
6⅝	28.00	5.791	5.666	7.000	5.731	1.3683
6⅝	32.00	5.675	5.550	7.000	5.615	1.3140
7	23.00	6.366	6.151	7.390	6.171	1.6535
7	26.00	6.276	6.151	7.390	6.171	1.6070
7	29.00	6.184	6.059	7.390	6.123	1.5603
7	32.00	6.094	5.969	7.390	6.032	1.5152
7	35.00	6.004	5.879	7.530	5.940	1.4708
7	38.00	5.920	5.795	7.530	5.860	1.4299
7⅝	26.40	6.969	6.750	8.010	6.770	1.9815
7⅝	29.70	6.875	6.750	8.010	6.770	1.9284
7⅝	33.70	6.765	6.640	8.010	6.705	1.8672
7⅝	39.00	6.625	6.500	8.010	6.565	1.7907
8⅝	32.00	7.921	7.700	9.120	7.725	2.5599
8⅝	36.00	7.825	7.700	9.120	7.725	2.4982
8⅝	40.00	7.725	7.600	9.120	7.663	2.4348
8⅝	44.00	7.625	7.500	9.120	7.565	2.3721
8⅝	49.00	7.511	7.386	9.120	7.451	2.3017
9⅝	40.00	8.835	8.599	10.100	8.665	3.1847
9⅝	43.50	8.755	8.599	10.100	8.665	3.1273
9⅝	47.00	8.681	8.525	10.100	8.621	3.0747
9⅝	53.50	8.535	8.379	10.100	8.475	2.9721
*10¾	45.50	9.950	9.794	11.460	9.819	4.0393
10¾	51.00	9.850	9.694	11.460	9.719	3.9585
10¾	55.50	9.760	9.604	11.460	9.629	3.8865
10¾	60.70	9.660	9.504	11.460	9.529	3.8073

NO. 217

EXTREME LINE CASING**

Lin. Ft. Per Gallon	Barrels Per Lin. Ft.	Lin. Ft. Per Barrel	Cu. Ft. Per Lin. Ft.	Lin. Ft. Per Cu. Ft.	Wt. Per Ft. Lb.	Size O.D. In.
1.2614	.0188	52.98	.1059	9.436	15.00	5
1.3405	.0177	56.30	.0997	10.028	18.00	5
1.0003	.0238	42.01	.1336	7.483	15.50	5½
1.0242	.0232	43.01	.1305	7.661	17.00	5½
1.0736	.0221	45.09	.1245	8.031	20.00	5½
1.1238	.0211	47.20	.1189	8.407	23.00	5½
.6991	.0340	29.36	.1912	5.230	24.00	6⅝
.7309	.0325	30.70	.1829	5.467	28.00	6⅝
.7610	.0312	31.96	.1756	5.693	32.00	6⅝
.6048	.0393	25.40	.2210	4.524	23.00	7
.6223	.0382	26.14	.2148	4.655	26.00	7
.6409	.0371	26.92	.2085	4.794	29.00	7
.6600	.0360	27.72	.2025	4.937	32.00	7
.6799	.0350	28.56	.1966	5.086	35.00	7
.6994	.0340	29.37	.1911	5.232	38.00	7
.5047	.0471	21.20	.2648	3.775	26.40	7⅝
.5186	.0459	21.78	.2577	3.879	29.70	7⅝
.5356	.0444	22.49	.2496	4.006	33.70	7⅝
.5584	.0426	23.45	.2393	4.177	39.00	7⅝
.3906	.0609	16.41	.3422	2.922	32.00	8⅝
.4003	.0594	16.81	.3339	2.994	36.00	8⅝
.4107	.0579	17.25	.3254	3.072	40.00	8⅝
.4216	.0564	17.71	.3171	3.154	44.00	8⅝
.4345	.0548	18.25	.3077	3.250	49.00	8⅝
.3140	.0758	13.19	.4257	2.349	40.00	9⅝
.3198	.0744	13.43	.4180	2.392	43.50	9⅝
.3252	.0732	13.66	.4110	2.433	47.00	9⅝
.3365	.0707	14.13	.3973	2.517	53.50	9⅝
.2476	.0961	10.40	.5399	1.852	45.50	*10¾
.2526	.0942	10.61	.5291	1.890	51.00	10¾
.2573	.0925	10.81	.5195	1.925	55.50	10¾
.2627	.0906	11.03	.5089	1.965	60.70	10¾

**No Allowance Made for Internal Restrictions of Joints and Upsets.

*Not API Standard. Shown for information only.

ENGLISH CAPACITIES

O.D. D, inches	I.D. d, inches	Wall Thickness t, inches	Weight lbs./ft.	Gallons per Lin. Ft.
20	18.25	0.875	178.72	13.5889
20	18.00	1.000	202.92	13.2191
20	17.75	1.125	226.78	12.8545
20	17.50	1.250	250.31	12.4949
20	17.25	1.375	273.51	12.1405
22	21.50	0.250	58.07	18.8597
22	21.25	0.375	86.61	18.4237
22	21.00	0.500	114.81	17.9927
22	20.75	0.625	142.68	17.5669
22	20.50	0.750	170.21	17.1461
22	20.25	0.875	197.41	16.7305
22	20.00	1.000	224.28	16.3199
22	19.75	1.125	250.81	15.9145
22	19.50	1.250	277.01	15.5141
22	19.25	1.375	302.88	15.1189
22	19.00	1.500	328.41	14.7287
24	23.50	0.250	63.41	22.5317
24	23.25	0.375	94.62	22.0548
24	23.00	0.500	125.49	21.5831
24	22.75	0.625	156.03	21.1164
24	22.50	0.750	186.23	20.6549
24	22.25	0.875	216.10	20.1985
24	22.00	1.000	245.64	19.7471
24	21.75	1.125	274.84	19.3009
24	21.50	1.250	303.71	18.8597
24	21.25	1.375	332.25	18.4237
24	21.00	1.500	360.45	17.9927
26	25.50	0.250	68.75	26.5301
26	25.25	0.375	102.63	26.0124
26	25.00	0.500	136.17	25.4999
26	24.75	0.625	169.38	24.9924
26	24.50	0.750	202.25	24.4901
26	24.25	0.875	234.79	23.9928
26	24.00	1.000	267.00	23.5007
28	27.50	0.250	74.09	30.8548
28	27.25	0.375	110.64	30.2964
28	27.00	0.500	146.85	29.7431
28	26.75	0.625	182.73	29.1948
28	26.50	0.750	218.27	28.6517
28	26.25	0.875	253.48	28.1136
28	26.00	1.000	288.36	27.5807

**UNITS
OF LINE PIPE**

Lin. Ft. per Lin. Ft.	Barrels per Barrel	Lin. Ft. per Lin. Ft.	Cu. Ft. per Cu. Ft.	Lin. Ft. per
0.0736	0.3235	3.0908	1.8166	0.5505
0.0756	0.3147	3.1772	1.7671	0.5659
0.0778	0.3061	3.2673	1.7184	0.5819
0.0800	0.2975	3.3614	1.6703	0.5987
0.0824	0.2891	3.4595	1.6230	0.6162
0.0530	0.4490	2.2270	2.5212	0.3966
0.0543	0.4387	2.2797	2.4629	0.4060
0.0556	0.4284	2.3343	2.4053	0.4158
0.0569	0.4183	2.3909	2.3484	0.4258
0.0583	0.4082	2.4495	2.2921	0.4363
0.0598	0.3983	2.5104	2.2365	0.4471
0.0613	0.3886	2.5735	2.1817	0.4584
0.0628	0.3789	2.6391	2.1275	0.4700
0.0645	0.3694	2.7072	2.0739	0.4822
0.0661	0.3600	2.7780	2.0211	0.4948
0.0679	0.3507	2.8516	1.9689	0.5079
0.0444	0.5365	1.8640	3.0121	0.3320
0.0453	0.5251	1.9043	2.9483	0.3392
0.0463	0.5139	1.9460	2.8852	0.3466
0.0474	0.5028	1.9890	2.8229	0.3542
0.0484	0.4918	2.0334	2.7612	0.3622
0.0495	0.4809	2.0794	2.7001	0.3704
0.0506	0.4702	2.1269	2.6398	0.3788
0.0518	0.4595	2.1761	2.5802	0.3876
0.0530	0.4490	2.2270	2.5212	0.3966
0.0543	0.4387	2.2797	2.4629	0.4060
0.0556	0.4284	2.3343	2.4053	0.4158
0.0377	0.6317	1.5831	3.5466	0.2820
0.0384	0.6193	1.6146	3.4774	0.2876
0.0392	0.6071	1.6471	3.4088	0.2934
0.0400	0.5951	1.6805	3.3410	0.2993
0.0408	0.5831	1.7150	3.2739	0.3055
0.0417	0.5713	1.7505	3.2074	0.3118
0.0426	0.5595	1.7872	3.1416	0.3183
0.0324	0.7346	1.3612	4.1247	0.2424
0.0330	0.7213	1.3863	4.0501	0.2469
0.0336	0.7082	1.4121	3.9761	0.2515
0.0343	0.6951	1.4386	3.9028	0.2562
0.0349	0.6822	1.4659	3.8302	0.2611
0.0356	0.6694	1.4939	3.7583	0.2661
0.0363	0.6567	1.5228	3.6870	0.2712

ENGLISH CAPACITIES

O.D. D, inches	I.D. d, inches	Wall Thickness t, inches	Weight lbs./ft.	Gallons per Lin. Ft.
30	29.50	0.250	79.43	35.5060
30	29.25	0.375	118.65	34.9068
30	29.00	0.500	157.53	34.3126
30	28.75	0.625	196.08	33.7236
30	28.50	0.750	234.29	33.1396
30	28.25	0.875	272.17	32.5608
30	28.00	1.000	309.72	31.9870
30	27.75	1.125	346.93	31.4184
30	27.50	1.250	383.81	30.8548
32	31.50	0.250	84.77	40.4836
32	31.25	0.375	126.66	39.8436
32	31.00	0.500	168.21	39.2086
32	30.75	0.625	209.43	38.5788
32	30.50	0.750	250.31	37.9540
32	30.25	0.875	290.86	37.3344
32	30.00	1.000	331.08	36.7198
32	29.75	1.125	370.96	36.1104
32	29.50	1.250	410.51	35.5060
34	33.50	0.250	90.11	45.7876
34	33.25	0.375	134.67	45.1067
34	33.00	0.500	178.89	44.4310
34	32.75	0.625	222.78	43.7603
34	32.50	0.750	266.33	43.0948
34	32.25	0.875	309.55	42.4343
34	32.00	1.000	352.44	41.7790
34	31.75	1.125	394.99	41.1287
34	31.50	1.250	437.21	40.4836
36	35.50	0.250	95.45	51.4179
36	35.25	0.375	142.68	50.6963
36	35.00	0.500	189.57	49.9798
36	34.75	0.625	236.13	49.2683
36	34.50	0.750	282.35	48.5620
36	34.25	0.875	328.24	47.8607
36	34.00	1.000	373.80	47.1646
36	33.75	1.125	419.02	46.4735
36	33.50	1.250	463.91	45.7876

**UNITS
OF LINE PIPE**

Lin. Ft. per Lin. Ft.	Barrels per Barrel	Lin. Ft. per Lin. Ft.	Cu. Ft. per Cu. Ft.	Lin. Ft. per
0.0282	0.8454	1.1829	4.7465	0.2107
0.0286	0.8311	1.2032	4.6664	0.2143
0.0291	0.8170	1.2240	4.5869	0.2180
0.0297	0.8029	1.2454	4.5082	0.2218
0.0302	0.7890	1.2674	4.4301	0.2257
0.0307	0.7753	1.2899	4.3528	0.2297
0.0313	0.7616	1.3130	4.2761	0.2339
0.0318	0.7481	1.3368	4.2000	0.2381
0.0324	0.7346	1.3612	4.1247	0.2424
0.0247	0.9639	1.0375	5.4119	0.1848
0.0251	0.9487	1.0541	5.3263	0.1877
0.0255	0.9335	1.0712	5.2414	0.1908
0.0259	0.9185	1.0887	5.1572	0.1939
0.0263	0.9037	1.1066	5.0737	0.1971
0.0268	0.8889	1.1250	4.9909	0.2004
0.0272	0.8743	1.1438	4.9087	0.2037
0.0277	0.8598	1.1631	4.8273	0.2072
0.0282	0.8454	1.1829	4.7465	0.2107
0.0218	1.0902	0.9173	6.1209	0.1634
0.0222	1.0740	0.9311	6.0299	0.1658
0.0225	1.0579	0.9453	5.9396	0.1684
0.0229	1.0419	0.9598	5.8499	0.1709
0.0232	1.0261	0.9746	5.7610	0.1736
0.0236	1.0103	0.9898	5.6727	0.1763
0.0239	0.9947	1.0053	5.5851	0.1790
0.0243	0.9793	1.0212	5.4981	0.1819
0.0247	0.9639	1.0375	5.4119	0.1848
0.0194	1.2242	0.8168	6.8736	0.1455
0.0197	1.2071	0.8285	6.7771	0.1476
0.0200	1.1900	0.8403	6.6813	0.1497
0.0203	1.1731	0.8525	6.5862	0.1518
0.0206	1.1562	0.8649	6.4918	0.1540
0.0209	1.1395	0.8775	6.3981	0.1563
0.0212	1.1230	0.8905	6.3050	0.1586
0.0215	1.1065	0.9037	6.2126	0.1610
0.0218	1.0902	0.9173	6.1209	0.1634

DRILL COLLARS

Drill Collar Number	O.D., inches D	I.D., inches d	Bevel Diameter Df	Gallons		Barrels		Lin. Ft.		Cu. Ft.	
				per Lin. Ft.	per Gallon	per Lin. Ft.	per Barrel	per Lin. Ft.	per Cu. Ft.		
NC23-31	3 1/8	1 1/4	3	0.0637	15.69	0.0015	658.83	0.0085	117.34		
NC26-35 (2 3/8 IF)	3 1/2	1 1/2	3 17/64	0.0918	10.89	0.0022	457.52	0.0123	81.49		
NC31-41 (2 7/8 IF)	4 1/8	2	3 61/64	0.1632	6.13	0.0039	257.35	0.0218	45.84		
NC35-47	4 3/4	2	4 33/64	0.1632	6.13	0.0039	257.35	0.0218	45.84		
NC38-50 (3 1/2 IF)	5	2 1/4	4 49/64	0.2065	4.84	0.0049	203.34	0.0276	36.22		
NC44-60	6	2 1/4	5 11/16	0.2065	4.84	0.0049	203.34	0.0276	36.22		
NC44-60	6	2 13/16	5 11/16	0.3227	3.10	0.0077	130.14	0.0431	23.18		
NC46-62	6 1/4	2 1/4	5 7/8	0.2065	4.84	0.0049	203.34	0.0276	36.22		
NC46-62 (4 IF)	6 1/4	2 13/16	5 29/32	0.3227	3.10	0.0077	130.14	0.0431	23.18		
NC46-65 (4 IF)	6 1/2	2 1/4	6 3/32	0.2065	4.84	0.0049	203.34	0.0276	36.22		
NC46-65 (4 IF)	6 1/2	2 13/16	6 3/32	0.3227	3.10	0.0077	130.14	0.0431	23.18		
NC46-67 (4 IF)	6 3/4	2 1/4	6 9/32	0.2065	4.84	0.0049	203.34	0.0276	36.22		
NC50-70 (4 1/2 IF)	7	2 1/4	6 31/64	0.2065	4.84	0.0049	203.34	0.0276	36.22		
NC50-70 (4 1/2 IF)	7	2 13/16	6 31/64	0.3227	3.10	0.0077	130.14	0.0431	23.18		
NC50-72 (4 1/2 IF)	7 1/4	2 13/16	6 43/64	0.3227	3.10	0.0077	130.14	0.0431	23.18		

DRILL COLLARS (continued)

Drill Collar Number	O.D., inches D	I.D., inches d	Bevel Diameter Df	Gallons	Lin. Ft.	Barrels	Lin. Ft.	Cu. Ft.	Lin. Ft.
				per Lin. Ft.	per Gallon	per Lin. Ft.	per Barrel	per Lin. Ft.	per Cu. Ft.
NC56-77	7 ³ / ₄	2 ¹³ / ₁₆	7 ¹⁹ / ₆₄	0.3227	3.10	0.0077	130.14	0.0431	23.18
NC56-80	8	2 ¹³ / ₁₆	7 ³¹ / ₆₄	0.3227	3.10	0.0077	130.14	0.0431	23.18
6 5/8 REG	8 ¹ / ₄	2 ¹³ / ₁₆	7 ⁴⁵ / ₆₄	0.3227	3.10	0.0077	130.14	0.0431	23.18
NC61-90	9	2 ¹³ / ₁₆	8 ³ / ₈	0.3227	3.10	0.0077	130.14	0.0431	23.18
7 5/8 REG	9 ¹ / ₂	3	8 ¹³ / ₁₆	0.3672	2.72	0.0087	114.38	0.0491	20.37
NC70-97	9 ³ / ₄	3	9 ⁵ / ₃₂	0.3672	2.72	0.0087	114.38	0.0491	20.37
NC70-100	10	3	9 ¹¹ / ₃₂	0.3672	2.72	0.0087	114.38	0.0491	20.37
8 5/8 REG	11	3	10 ¹ / ₂	0.3672	2.72	0.0087	114.38	0.0491	20.37

API Specification 7, Table 13 - The drill collar number consists of two parts separated by a hyphen. The first part is the connection number in the NC style. The second part, consisting of 2 (or 3) digits, indicates the drill collar outside diameter in units and tenths of inches. The connection shown in parentheses in the first column are not part of the drill collar number; they indicate interchangeability of drill collars made with the standard (NC) connections as shown. If the connections shown in parentheses in the first column are made with V-0.038R thread form, the connections and drill collars are identical with those in the NC style. Drill collars with 8¹/₄, 9¹/₂, and 11 inch outside diameters are shown with 6-5/8, 7-5/8, and 8-5/8 REG connections, since there are no NC connections in the recommended bending strength ratio range.