Eddythread 40 - Hydraulic Tables

A Lightweight Schedule 40 Replacement Pipe That Has a Corrosion Resistance Ratio of 1.0

EDDYTHREAD 40 SPECIFICATIONS

NOMINAL PIPE SIZE (in)	WEIGHT (lbs/ft)	I.D. (in)	BUNDLE SIZE
1	1.461	1.083	70
1 1/4	2.070	1.418	51
1 1/2	2.547	1.654	44
2	3.308	2.123	30

CORROSION RESISTANCE RATIOS

NOMINAL PIPE SIZE (in)	SCHEDULE 40	EDDYTHREAD 40 *
1	1.00	1.00
1 1/4	1.00	1.00
1 1/2	1.00	1.00
2	1.00	1.00

** Eddythread 40 can be hot dipped galvanized to meet FM's requirement for dry systems*

The following tables will help you determine the substantial hydraulic advantages of Eddythread 40 over Schedule 40, and achieve cost savings through system downsizing. Any questions or comments should be addressed to Bull Moose Tube Technical Support Department at 888-227-5430, or via e-mail at techsupport@bullmoosetube.com. Please request our cutsheet for more information on Eddythread 40.

Friction loss calculations are based on the Hazen-Williams formula

$P = (4.52 \times Q^{1.85}) / (C^{1.85} \times d^{4.87})$, Where

P is the frictional resistance in pounds pressure per square inch per foot of pipe,
Q is the gallons per minute flowing,
d is the inside diameter of pipe in inches, and
C is the friction loss coefficient. C=100 (for dry systems), C= 120 (for wet systems).
I.D.'s used for the calculations are given in parenthesis.

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BMT EDDYTHREAD 40				
Hydraulic Tables For Dry Systems			C= 100	
Q gpm	1" (1.083)	1-1/4" (1.418)	1-1/2" (1.654)	2" (2.123)
5	0.012	0.003	0.002	
6	0.017	0.005	0.002	
7	0.022	0.006	0.003	
8	0.029	0.008	0.004	
9	0.036	0.010	0.005	0.001
10	0.043	0.012	0.006	0.002
11	0.052	0.014	0.007	0.002
12	0.061	0.016	0.008	0.002
13	0.070	0.019	0.009	0.003
14	0.081	0.022	0.010	0.003
15	0.092	0.025	0.012	0.003
16	0.103	0.028	0.013	0.004
17	0.116	0.031	0.015	0.004
18	0.128	0.035	0.016	0.005
19	0.142	0.038	0.018	0.005
20	0.156	0.042	0.020	0.006
21	0.171	0.046	0.022	0.006
22	0.186	0.050	0.024	0.007
23	0.202	0.054	0.026	0.008
24	0.219	0.059	0.028	0.008
25	0.236	0.063	0.030	0.009
26	0.254	0.068	0.032	0.010
27	0.272	0.073	0.035	0.010
28	0.291	0.078	0.037	0.011
29	0.310	0.084	0.039	0.012
30	0.331	0.089	0.042	0.012
31	0.351	0.095	0.045	0.013
32	0.372	0.100	0.047	0.014
33	0.394	0.106	0.050	0.015
34	0.417	0.112	0.053	0.016
35	0.440	0.118	0.056	0.017
36	0.463	0.125	0.059	0.017
37	0.487	0.131	0.062	0.018
38	0.512	0.138	0.065	0.019
39	0.537	0.145	0.068	0.020
40	0.563	0.151	0.072	0.021
41	0.589	0.159	0.075	0.022
42	0.616	0.166	0.078	0.023
43	0.643	0.173	0.082	0.024
44	0.671	0.181	0.085	0.025
45	0.700	0.188	0.089	0.026
46	0.729	0.196	0.093	0.027
47	0.758	0.204	0.096	0.029
48	0.788	0.212	0.100	0.030
49	0.819	0.220	0.104	0.031
50	0.850	0.229	0.108	0.032
51	0.882	0.237	0.112	0.033
52	0.914	0.246	0.116	0.034
53	0.947	0.255	0.120	0.036
54	0.980	0.264	0.125	0.037
55	1.014	0.273	0.129	0.038
56	1.049	0.282	0.133	0.040
57	1.084	0.292	0.138	0.041
58	1.119	0.301	0.142	0.042
59	1.155	0.311	0.147	0.044
60	1.191	0.321	0.152	0.045

BMT EDDYTHREAD 40				
Hydraulic Tables For Wet Systems			C= 120	
Q gpm	1" (1.083)	1-1/4" (1.418)	1-1/2" (1.654)	2" (2.123)
5	0.009	0.002	0.001	
6	0.012	0.003	0.002	
7	0.016	0.004	0.002	
8	0.020	0.006	0.003	
9	0.025	0.007	0.003	
10	0.031	0.008	0.004	
11	0.037	0.010	0.005	0.001
12	0.043	0.012	0.006	0.002
13	0.050	0.014	0.006	0.002
14	0.058	0.015	0.007	0.002
15	0.065	0.018	0.008	0.002
16	0.074	0.020	0.009	0.003
17	0.082	0.022	0.010	0.003
18	0.092	0.025	0.012	0.003
19	0.101	0.027	0.013	0.004
20	0.111	0.030	0.014	0.004
21	0.122	0.033	0.016	0.005
22	0.133	0.036	0.017	0.005
23	0.144	0.039	0.018	0.005
24	0.156	0.042	0.020	0.006
25	0.168	0.045	0.021	0.006
26	0.181	0.049	0.023	0.007
27	0.194	0.052	0.025	0.007
28	0.208	0.056	0.026	0.008
29	0.222	0.060	0.028	0.008
30	0.236	0.063	0.030	0.009
31	0.251	0.067	0.032	0.009
32	0.266	0.072	0.034	0.010
33	0.281	0.076	0.036	0.011
34	0.297	0.080	0.038	0.011
35	0.314	0.084	0.040	0.012
36	0.331	0.089	0.042	0.012
37	0.348	0.094	0.044	0.013
38	0.365	0.098	0.046	0.014
39	0.383	0.103	0.049	0.014
40	0.402	0.108	0.051	0.015
41	0.420	0.113	0.053	0.016
42	0.440	0.118	0.056	0.017
43	0.459	0.124	0.058	0.017
44	0.479	0.129	0.061	0.018
45	0.499	0.134	0.064	0.019
46	0.520	0.140	0.066	0.020
47	0.541	0.146	0.069	0.020
48	0.563	0.151	0.072	0.021
49	0.585	0.157	0.074	0.022
50	0.607	0.163	0.077	0.023
51	0.630	0.169	0.080	0.024
52	0.653	0.176	0.083	0.025
53	0.676	0.182	0.086	0.025
54	0.700	0.188	0.089	0.026
55	0.724	0.195	0.092	0.027
56	0.748	0.201	0.095	0.028
57	0.773	0.208	0.098	0.029
58	0.799	0.215	0.102	0.030
59	0.824	0.222	0.105	0.031
60	0.850	0.229	0.108	0.032

BMT EDDYTHREAD 40				
Hydraulic Tables For Dry Systems			C= 100	
Q gpm	1" (1.083)	1-1/4" (1.418)	1-1/2" (1.654)	2" (2.123)
61	1.228	0.331	0.156	0.046
62	1.266	0.341	0.161	0.048
63	1.304	0.351	0.166	0.049
64	1.343	0.361	0.171	0.051
65	1.382	0.372	0.176	0.052
66	1.421	0.383	0.181	0.054
67	1.461	0.393	0.186	0.055
68	1.502	0.404	0.191	0.057
69	1.543	0.415	0.196	0.058
70	1.585	0.426	0.202	0.060
71	1.627	0.438	0.207	0.061
72	1.669	0.449	0.212	0.063
73	1.713	0.461	0.218	0.065
74	1.756	0.473	0.223	0.066
75	1.800	0.485	0.229	0.068
76	1.845	0.497	0.235	0.070
77	1.890	0.509	0.240	0.071
78	1.936	0.521	0.246	0.073
79	1.982	0.533	0.252	0.075
80	2.029	0.546	0.258	0.076
81	2.076	0.559	0.264	0.078
82	2.124	0.572	0.270	0.080
83	2.172	0.584	0.276	0.082
84	2.220	0.598	0.282	0.084
85	2.269	0.611	0.289	0.086
86	2.319	0.624	0.295	0.087
87	2.369	0.638	0.301	0.089
88	2.420	0.651	0.308	0.091
89	2.471	0.665	0.314	0.093
90	2.523	0.679	0.321	0.095
91	2.575	0.693	0.327	0.097
92	2.627	0.707	0.334	0.099
93	2.680	0.721	0.341	0.101
94	2.734	0.736	0.348	0.103
95	2.788	0.750	0.355	0.105
96	2.842	0.765	0.361	0.107
97	2.898	0.780	0.368	0.109
98	2.953	0.795	0.376	0.111
99	3.009	0.810	0.383	0.113
100	3.065	0.825	0.390	0.116
102	3.180	0.856	0.404	0.120
104	3.296	0.887	0.419	0.124
106	3.414	0.919	0.434	0.129
108	3.535	0.951	0.449	0.133
110	3.657	0.984	0.465	0.138
112	3.781	1.017	0.481	0.143
114	3.906	1.051	0.497	0.147
116	4.034	1.086	0.513	0.152
118	4.164	1.121	0.529	0.157
120	4.295	1.156	0.546	0.162
122	4.429	1.192	0.563	0.167
124	4.564	1.228	0.580	0.172
126	4.701	1.265	0.598	0.177
128	4.840	1.303	0.615	0.182
130	4.981	1.341	0.633	0.188
132	5.123	1.379	0.652	0.193

BMT EDDYTHREAD 40				
Hydraulic Tables For Wet Systems			C= 120	
Q gpm	1" (1.083)	1-1/4" (1.418)	1-1/2" (1.654)	2" (2.123)
61	0.877	0.236	0.111	0.033
62	0.904	0.243	0.115	0.034
63	0.931	0.250	0.118	0.035
64	0.958	0.258	0.122	0.036
65	0.986	0.265	0.125	0.037
66	1.014	0.273	0.129	0.038
67	1.043	0.281	0.133	0.039
68	1.072	0.288	0.136	0.040
69	1.101	0.296	0.140	0.042
70	1.131	0.304	0.144	0.043
71	1.161	0.312	0.148	0.044
72	1.191	0.321	0.152	0.045
73	1.222	0.329	0.155	0.046
74	1.253	0.337	0.159	0.047
75	1.285	0.346	0.163	0.048
76	1.317	0.354	0.167	0.050
77	1.349	0.363	0.172	0.051
78	1.382	0.372	0.176	0.052
79	1.415	0.381	0.180	0.053
80	1.448	0.390	0.184	0.055
81	1.482	0.399	0.188	0.056
82	1.516	0.408	0.193	0.057
83	1.550	0.417	0.197	0.058
84	1.585	0.426	0.202	0.060
85	1.620	0.436	0.206	0.061
86	1.655	0.445	0.210	0.062
87	1.691	0.455	0.215	0.064
88	1.727	0.465	0.220	0.065
89	1.764	0.475	0.224	0.066
90	1.800	0.485	0.229	0.068
91	1.838	0.495	0.234	0.069
92	1.875	0.505	0.238	0.071
93	1.913	0.515	0.243	0.072
94	1.951	0.525	0.248	0.074
95	1.990	0.536	0.253	0.075
96	2.029	0.546	0.258	0.076
97	2.068	0.557	0.263	0.078
98	2.108	0.567	0.268	0.079
99	2.148	0.578	0.273	0.081
100	2.188	0.589	0.278	0.082
102	2.269	0.611	0.289	0.086
104	2.352	0.633	0.299	0.089
106	2.437	0.656	0.310	0.092
108	2.523	0.679	0.321	0.095
110	2.610	0.702	0.332	0.098
112	2.698	0.726	0.343	0.102
114	2.788	0.750	0.355	0.105
116	2.879	0.775	0.366	0.109
118	2.972	0.800	0.378	0.112
120	3.065	0.825	0.390	0.116
122	3.161	0.851	0.402	0.119
124	3.257	0.877	0.414	0.123
126	3.355	0.903	0.427	0.127
128	3.454	0.930	0.439	0.130
130	3.555	0.957	0.452	0.134
132	3.657	0.984	0.465	0.138

BMT EDDYTHREAD 40				
Hydraulic Tables For Dry Systems			C= 100	
Q gpm	1" (1.083)	1-1/4" (1.418)	1-1/2" (1.654)	2" (2.123)
134	5.268	1.418	0.670	0.199
136	5.414	1.457	0.689	0.204
138	5.563	1.497	0.707	0.210
140	5.713	1.537	0.726	0.215
142	5.865	1.578	0.746	0.221
144	6.018	1.620	0.765	0.227
146	6.174	1.662	0.785	0.233
148	6.331	1.704	0.805	0.239
150	6.490	1.747	0.825	0.245
152	6.651	1.790	0.846	0.251
154	6.814	1.834	0.867	0.257
156	6.979	1.878	0.887	0.263
158	7.145	1.923	0.909	0.269
160	7.313	1.968	0.930	0.276
162	7.483	2.014	0.952	0.282
164	7.655	2.060	0.973	0.289
166	7.829	2.107	0.996	0.295
168	8.004	2.154	1.018	0.302
170	8.181	2.202	1.040	0.308
172	8.360	2.250	1.063	0.315
174	8.541	2.299	1.086	0.322
176	8.724	2.348	1.109	0.329
178	8.908	2.397	1.133	0.336
180	9.094	2.448	1.156	0.343
182	9.282	2.498	1.180	0.350
184	9.471	2.549	1.204	0.357
186	9.663	2.601	1.229	0.364
188	9.856	2.653	1.253	0.372
190	10.051	2.705	1.278	0.379
192	10.247	2.758	1.303	0.386
194	10.446	2.811	1.328	0.394
196	10.646	2.865	1.354	0.401
198	10.847	2.919	1.379	0.409
200	11.051	2.974	1.405	0.417
202			1.431	0.424
204			1.458	0.432
206			1.484	0.440
208			1.511	0.448
210			1.538	0.456
212			1.565	0.464
214			1.593	0.472
216			1.620	0.480
218			1.648	0.489
220			1.676	0.497
222			1.705	0.505
224			1.733	0.514
226			1.762	0.522
228			1.791	0.531
230			1.820	0.540
232			1.849	0.548
234			1.879	0.557
236			1.909	0.566
238			1.939	0.575
240			1.969	0.584
242			2.000	0.593
244			2.030	0.602

BMT EDDYTHREAD 40				
Hydraulic Tables For Wet Systems			C= 120	
Q gpm	1" (1.083)	1-1/4" (1.418)	1-1/2" (1.654)	2" (2.123)
134	3.760	1.012	0.478	0.142
136	3.864	1.040	0.491	0.146
138	3.970	1.068	0.505	0.150
140	4.077	1.097	0.518	0.154
142	4.185	1.126	0.532	0.158
144	4.295	1.156	0.546	0.162
146	4.406	1.186	0.560	0.166
148	4.519	1.216	0.575	0.170
150	4.632	1.247	0.589	0.175
152	4.747	1.278	0.604	0.179
154	4.863	1.309	0.618	0.183
156	4.981	1.341	0.633	0.188
158	5.100	1.372	0.648	0.192
160	5.220	1.405	0.664	0.197
162	5.341	1.437	0.679	0.201
164	5.464	1.470	0.695	0.206
166	5.587	1.504	0.711	0.211
168	5.713	1.537	0.726	0.215
170	5.839	1.572	0.743	0.220
172	5.967	1.606	0.759	0.225
174	6.096	1.641	0.775	0.230
176	6.226	1.676	0.792	0.235
178	6.358	1.711	0.808	0.240
180	6.490	1.747	0.825	0.245
182	6.624	1.783	0.842	0.250
184	6.760	1.819	0.860	0.255
186	6.896	1.856	0.877	0.260
188	7.034	1.893	0.894	0.265
190	7.173	1.931	0.912	0.270
192	7.313	1.968	0.930	0.276
194	7.455	2.006	0.948	0.281
196	7.598	2.045	0.966	0.286
198	7.742	2.084	0.985	0.292
200	7.887	2.123	1.003	0.297
202			1.022	0.303
204			1.040	0.308
206			1.059	0.314
208			1.078	0.320
210			1.098	0.325
212			1.117	0.331
214			1.137	0.337
216			1.156	0.343
218			1.176	0.349
220			1.196	0.355
222			1.217	0.361
224			1.237	0.367
226			1.257	0.373
228			1.278	0.379
230			1.299	0.385
232			1.320	0.391
234			1.341	0.398
236			1.362	0.404
238			1.384	0.410
240			1.405	0.417
242			1.427	0.423
244			1.449	0.430

BMT EDDYTHREAD 40				
Hydraulic Tables For Dry Systems			C= 100	
Q gpm	1" (1.083)	1-1/4" (1.418)	1-1/2" (1.654)	2" (2.123)
246			2.061	0.611
248			2.092	0.620
250			2.124	0.630
252			2.155	0.639
254			2.187	0.648
256			2.219	0.658
258			2.251	0.667
260			2.283	0.677
262			2.316	0.687
264			2.349	0.696
266			2.382	0.706
268			2.415	0.716
270			2.448	0.726
272			2.482	0.736
274			2.516	0.746
276			2.550	0.756
278			2.584	0.766
280			2.619	0.776
282			2.654	0.787
284			2.688	0.797
286			2.724	0.808
288			2.759	0.818
290			2.795	0.829
292			2.830	0.839
294			2.866	0.850
296			2.902	0.861
298			2.939	0.871
300			2.975	0.882
302			3.012	0.893
304			3.049	0.904
306			3.086	0.915
308			3.124	0.926
310			3.161	0.937
312			3.199	0.949
314			3.237	0.960
316			3.276	0.971
318			3.314	0.983
320			3.353	0.994
322			3.392	1.006
324			3.431	1.017
326			3.470	1.029
328			3.509	1.041
330			3.549	1.052
332			3.589	1.064
334			3.629	1.076
336			3.669	1.088
338			3.710	1.100
340			3.751	1.112
342			3.792	1.124
344			3.833	1.136
346			3.874	1.149
348			3.916	1.161
350			3.957	1.173
352			3.999	1.186
354			4.041	1.198
356			4.084	1.211

BMT EDDYTHREAD 40				
Hydraulic Tables For Wet Systems			C= 120	
Q gpm	1" (1.083)	1-1/4" (1.418)	1-1/2" (1.654)	2" (2.123)
246			1.471	0.436
248			1.493	0.443
250			1.516	0.449
252			1.538	0.456
254			1.561	0.463
256			1.584	0.470
258			1.607	0.476
260			1.630	0.483
262			1.653	0.490
264			1.676	0.497
266			1.700	0.504
268			1.724	0.511
270			1.747	0.518
272			1.771	0.525
274			1.796	0.532
276			1.820	0.540
278			1.844	0.547
280			1.869	0.554
282			1.894	0.562
284			1.919	0.569
286			1.944	0.576
288			1.969	0.584
290			1.994	0.591
292			2.020	0.599
294			2.046	0.607
296			2.071	0.614
298			2.097	0.622
300			2.124	0.630
302			2.150	0.637
304			2.176	0.645
306			2.203	0.653
308			2.229	0.661
310			2.256	0.669
312			2.283	0.677
314			2.310	0.685
316			2.338	0.693
318			2.365	0.701
320			2.393	0.709
322			2.421	0.718
324			2.448	0.726
326			2.476	0.734
328			2.505	0.743
330			2.533	0.751
332			2.561	0.759
334			2.590	0.768
336			2.619	0.776
338			2.648	0.785
340			2.677	0.794
342			2.706	0.802
344			2.735	0.811
346			2.765	0.820
348			2.795	0.829
350			2.824	0.837
352			2.854	0.846
354			2.884	0.855
356			2.915	0.864

BMT EDDYTHREAD 40				
Hydraulic Tables For Dry Systems			C= 100	
Q gpm	1" (1.083)	1-1/4" (1.418)	1-1/2" (1.654)	2" (2.123)
358			4.126	1.223
360			4.169	1.236
362			4.212	1.249
364			4.255	1.262
366			4.298	1.274
368			4.342	1.287
370			4.386	1.300
372			4.430	1.313
374			4.474	1.326
376			4.518	1.340
378			4.563	1.353
380			4.608	1.366
382			4.653	1.379
384			4.698	1.393
386			4.743	1.406
388			4.789	1.420
390			4.834	1.433
392			4.880	1.447
394			4.927	1.461
396			4.973	1.474
398			5.019	1.488
400			5.066	1.502
405				1.537
410				1.572
415				1.608
420				1.644
425				1.680
430				1.717
435				1.754
440				1.792
445				1.830
450				1.868
455				1.906
460				1.945
465				1.985
470				2.024
475				2.064
480				2.105
485				2.145
490				2.187
495				2.228
500				2.270

BMT EDDYTHREAD 40				
Hydraulic Tables For Wet Systems			C= 120	
Q gpm	1" (1.083)	1-1/4" (1.418)	1-1/2" (1.654)	2" (2.123)
358			2.945	0.873
360			2.975	0.882
362			3.006	0.891
364			3.037	0.900
366			3.068	0.910
368			3.099	0.919
370			3.130	0.928
372			3.161	0.937
374			3.193	0.947
376			3.225	0.956
378			3.256	0.966
380			3.288	0.975
382			3.320	0.985
384			3.353	0.994
386			3.385	1.004
388			3.418	1.013
390			3.450	1.023
392			3.483	1.033
394			3.516	1.042
396			3.549	1.052
398			3.582	1.062
400			3.616	1.072
405				1.097
410				1.122
415				1.148
420				1.173
425				1.199
430				1.226
435				1.252
440				1.279
445				1.306
450				1.333
455				1.361
460				1.388
465				1.416
470				1.445
475				1.473
480				1.502
485				1.531
490				1.561
495				1.590
500				1.620