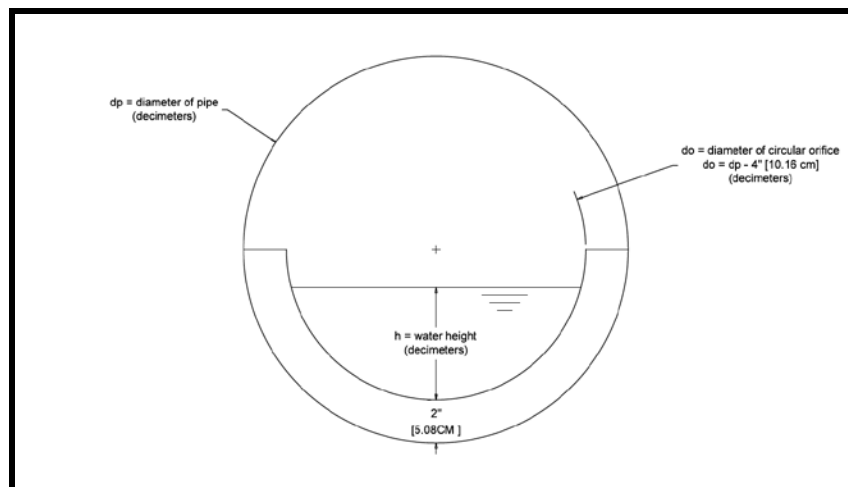


26-Inch Circular Weir for 30-Inch Pipe

2-Inches [5.08 cm] High

do = diameter of circular orifice

FEET	INCHES	METERS	CFS	GPM	MGD	L/S	M3/HR
0.01	0.12	0.0030	Nappe may cling to downstream weir face $Q = C_d \left[10.12 \left(\frac{h}{d} \right)^{1.975} - 2.66 \left(\frac{h}{d} \right)^{3.78} \right] (d)^{5/2}$ where Q = discharge (liters/sec) d = diameter of circular orifice (decimeters) h = height over the weir (decimeters) C_d = coefficient of discharge as given by: $C_d = 0.555 + \frac{1}{110 \left(\frac{h}{d} \right)} + 0.041 \left(\frac{h}{d} \right)$				
0.02	0.24	0.0061					
0.03	0.36	0.0091					
0.04	0.48	0.0122					
0.05	0.60	0.0152					
0.06	0.72	0.0183					
0.07	0.84	0.0213					
0.08	0.96	0.0244					
0.09	1.08	0.0274					
0.10	1.20	0.0305					
0.11	1.32	0.0335					
0.12	1.44	0.0366					
0.13	1.56	0.0396					
0.14	1.68	0.0427					
0.15	1.80	0.0457					
0.16	1.92	0.0488					
0.17	2.04	0.0518					
0.18	2.16	0.0549					
0.19	2.28	0.0579					
0.20	2.40	0.0610	0.0121	105.7	0.1521	6.667	24.00
0.21	2.52	0.0640	0.0137	115.5	0.1663	7.288	26.24
0.22	2.64	0.0671	0.0153	125.8	0.1811	7.937	28.57
0.23	2.76	0.0701	0.0172	136.5	0.1965	8.612	31.00
0.24	2.88	0.0732	0.0191	147.6	0.2125	9.314	33.53
0.25	3.00	0.0762	0.0211	159.2	0.2292	10.04	36.16
0.26	3.12	0.0792	0.0233	171.2	0.2464	10.80	38.88
0.27	3.24	0.0823	0.0256	183.6	0.2643	11.58	41.70
0.28	3.36	0.0853	0.0280	196.4	0.2828	12.39	44.61
0.29	3.48	0.0884	0.0306	209.7	0.3019	13.23	47.62
0.30	3.60	0.0914	0.0333	223.3	0.3215	14.09	50.72



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FEET	INCHES	METERS	CFS	GPM	MGD	L/S	M3/HR
0.31	3.72	0.0945	0.0362	237.4	0.3418	14.98	53.93
0.32	3.84	0.0975	0.0392	251.9	0.3627	15.90	57.22
0.33	3.96	0.1006	0.0423	266.9	0.3842	16.84	60.61
0.34	4.08	0.1036	0.0456	282.2	0.4063	17.81	64.10
0.35	4.20	0.1067	0.0490	298.0	0.4290	18.80	67.68
0.36	4.32	0.1097	0.0526	314.2	0.4523	19.82	71.36
0.37	4.44	0.1128	0.0563	330.8	0.4762	20.87	75.12
0.38	4.56	0.1158	0.0602	347.8	0.5007	21.94	78.99
0.39	4.68	0.1189	0.0642	365.2	0.5258	23.04	82.94
0.40	4.80	0.1219	0.0684	383.0	0.5514	24.17	86.99
0.41	4.92	0.1250	0.0728	401.3	0.5777	25.32	91.14
0.42	5.04	0.1280	0.0773	419.9	0.6046	26.49	95.37
0.43	5.16	0.1311	0.0820	439.0	0.6320	27.69	99.70
0.44	5.28	0.1341	0.0868	458.4	0.6600	28.92	104.1
0.45	5.40	0.1372	0.0918	478.3	0.6886	30.18	108.6
0.46	5.52	0.1402	0.0970	498.6	0.7178	31.46	113.2
0.47	5.64	0.1433	0.1024	519.2	0.7476	32.76	117.9
0.48	5.76	0.1463	0.1079	540.3	0.7779	34.09	122.7
0.49	5.88	0.1494	0.1136	561.8	0.8088	35.44	127.6
0.50	6.00	0.1524	0.1195	583.7	0.8403	36.82	132.6
0.51	6.12	0.1554	0.1256	605.9	0.8724	38.23	137.6
0.52	6.24	0.1585	0.1318	628.6	0.9050	39.66	142.8
0.53	6.36	0.1615	0.1382	651.7	0.9382	41.11	148.0
0.54	6.48	0.1646	0.1449	675.1	0.9720	42.59	153.3
0.55	6.60	0.1676	0.1517	698.9	1.006	44.10	158.8
0.56	6.72	0.1707	0.1586	723.2	1.041	45.63	164.3
0.57	6.84	0.1737	0.1658	747.8	1.077	47.18	169.8
0.58	6.96	0.1768	0.1732	772.8	1.113	48.76	175.5
0.59	7.08	0.1798	0.1807	798.2	1.149	50.36	181.3
0.60	7.20	0.1829	0.1885	824.0	1.186	51.99	187.1
0.61	7.32	0.1859	0.1965	850.1	1.224	53.64	193.1
0.62	7.44	0.1890	0.2046	876.7	1.262	55.31	199.1
0.63	7.56	0.1920	0.2130	903.6	1.301	57.01	205.2
0.64	7.68	0.1951	0.2215	930.9	1.340	58.73	211.4
0.65	7.80	0.1981	0.2303	958.6	1.380	60.48	217.7
0.66	7.92	0.2012	0.2392	986.6	1.420	62.25	224.1
0.67	8.04	0.2042	0.2484	1015	1.461	64.04	230.5
0.68	8.16	0.2073	0.2578	1044	1.503	65.85	237.1
0.69	8.28	0.2103	0.2673	1073	1.545	67.69	243.7
0.70	8.40	0.2134	0.2771	1102	1.587	69.56	250.4
0.71	8.52	0.2164	0.2871	1132	1.630	71.44	257.2
0.72	8.64	0.2195	0.2974	1163	1.674	73.35	264.1
0.73	8.76	0.2225	0.3078	1193	1.718	75.28	271.0
0.74	8.88	0.2256	0.3184	1224	1.762	77.23	278.0
0.75	9.00	0.2286	0.3293	1255	1.808	79.21	285.2
0.76	9.12	0.2316	0.3404	1287	1.853	81.21	292.4
0.77	9.24	0.2347	0.3517	1319	1.899	83.23	299.6
0.78	9.36	0.2377	0.3632	1352	1.946	85.27	307.0
0.79	9.48	0.2408	0.3750	1384	1.993	87.34	314.4
0.80	9.60	0.2438	0.3870	1417	2.041	89.43	321.9

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do = diameter of circular orifice

FEET	INCHES	METERS	CFS	GPM	MGD	L/S	M3/HR
0.81	9.72	0.2469	0.3992	1451	2.089	91.53	329.5
0.82	9.84	0.2499	0.4116	1485	2.137	93.67	337.2
0.83	9.96	0.2530	0.4243	1519	2.187	95.82	344.9
0.84	10.08	0.2560	0.4372	1553	2.236	97.99	352.8
0.85	10.20	0.2591	0.4503	1588	2.286	100.2	360.7
0.86	10.32	0.2621	0.4637	1623	2.337	102.4	368.6
0.87	10.44	0.2652	0.4772	1658	2.388	104.6	376.7
0.88	10.56	0.2682	0.4911	1694	2.439	106.9	384.8
0.89	10.68	0.2713	0.5052	1730	2.491	109.2	393.0
0.90	10.80	0.2743	0.5195	1767	2.544	111.5	401.3
0.91	10.92	0.2774	0.5340	1804	2.597	113.8	409.6
0.92	11.04	0.2804	0.5488	1841	2.650	116.1	418.1
0.93	11.16	0.2835	0.5638	1878	2.704	118.5	426.6
0.94	11.28	0.2865	0.5791	1916	2.758	120.9	435.1
0.95	11.40	0.2896	0.5946	1954	2.813	123.3	443.8
0.96	11.52	0.2926	0.6104	1992	2.868	125.7	452.5
0.97	11.64	0.2957	0.6264	2031	2.924	128.1	461.2
0.98	11.76	0.2987	0.6427	2070	2.980	130.6	470.1
0.99	11.88	0.3018	0.6592	2109	3.036	133.1	479.0
1.00	12.00	0.3048	0.6760	2149	3.093	135.6	488.0
1.01	12.12	0.3078	0.6930	2188	3.151	138.1	497.0
1.02	12.24	0.3109	0.7103	2229	3.208	140.6	506.2
1.03	12.36	0.3139	0.7278	2269	3.267	143.2	515.3
1.04	12.48	0.3170	0.7456	2310	3.325	145.7	524.6
1.05	12.60	0.3200	0.7637	2351	3.384	148.3	533.9
1.06	12.72	0.3231	0.7820	2392	3.444	150.9	543.3
1.07	12.84	0.3261	0.8006	2434	3.504	153.5	552.7
1.08	12.96	0.3292	0.8194	2475	3.564	156.2	562.3