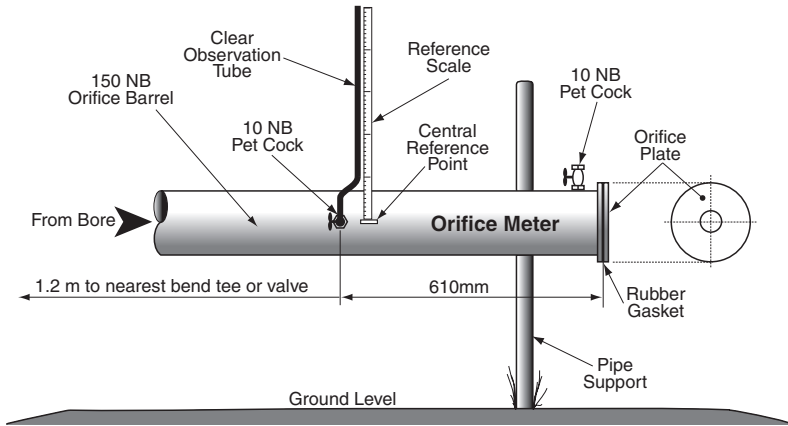


CIRCULAR ORIFICE METER DISCHARGE TABLE



Formula $Q = 0.0115774ch^{0.5}$ Where Q = Discharge in litres per second c = Discharge coefficient h = Height in millimetres of water in tube	Orifice meter plate diameter (mm)	c
	25	3.68
	51	15.2
	76	35.1
	102	69.3
	114	94.2

Tube height mm	Plate diameter									
	25 mm		51 mm		76 mm		102 mm		114 mm	
	L/s	m ³ /d	L/s	m ³ /d	L/s	m ³ /d	L/s	m ³ /d	L/s	m ³ /d
100	0.426	37	1.759	152	4.062	351	8.021	693	10.903	942
200	0.602	52	2.488	215	5.745	496	11.343	980	15.419	1332
300	0.738	64	3.047	263	7.036	608	13.892	1200	18.884	1632
400	0.852	74	3.519	304	8.125	702	16.042	1386	21.806	1884
500	0.952	82	3.934	340	9.084	785	17.935	1550	24.379	2106
600	1.043	90	4.309	372	9.951	860	19.647	1697	26.706	2307
700	1.127	97	4.655	402	10.748	929	21.221	1834	28.846	2492
800	1.205	104	4.976	430	11.495	993	22.686	1960	30.838	2664
900	1.278	110	5.278	456	12.187	1053	24.062	2079	32.708	2826
1000	1.347	116	5.563	481	12.847	1110	25.364	2191	34.478	2979
1100	1.413	122	5.835	504	13.474	1164	26.602	2298	36.160	3124
1200	1.475	127	6.094	527	14.073	1216	27.785	2401	37.768	3263
1300	1.536	133	6.343	548	14.648	1266	28.920	2499	39.311	3396
1400	1.594	138	6.583	569	15.200	1313	30.011	2593	40.794	3525
1500	1.650	143	6.814	589	15.734	1359	31.065	2684	42.226	3648
1600	1.704	147	7.037	608	16.250	1404	32.083	2772	43.611	3768
1700	1.756	152	7.254	627	16.750	1447	33.071	2857	44.953	3884

L/s Litres per second

m³/d Cubic metres per day

For use with 152 mm outer diameter aluminium orifice meter.

Tables based on water temperature of 16°C.

Source: Queensland Department of Natural Resources.