



# AQUATICA

## water pumps

DIFFERENT - BETTER



Useful technical charts & details that will help in some of the calculations required.

### Nozzle Flow Rates in Litres per Second

		PRESSURE			DIAMETER OF NOOZLE (mm)					
kPa	psi	2	4	6	8	10	12	16	20	25
200	29	0.06	0.25	0.56	1.01	1.57	2.26	4.02	6.29	9.82
300	43	0.08	0.31	0.69	1.23	1.93	2.77	4.93	7.70	12.03
400	58	0.09	0.36	0.80	1.42	2.22	3.20	5.69	8.89	13.89
500	73	0.10	0.40	0.89	1.59	2.48	3.58	6.36	9.94	15.53
600	87	0.11	0.43	0.98	1.74	2.72	3.92	6.97	10.89	17.02
700	102	0.12	0.47	1.06	1.88	2.94	4.23	7.53	11.76	18.38
800	116	0.12	0.50	1.13	2.01	3.14	4.53	8.05	12.58	19.65
900	131	0.13	0.53	1.20	2.13	3.33	4.80	8.54	13.34	20.84
1000	145	0.14	0.56	1.26	2.25	3.52	5.06	9.00	14.06	21.97

### Velocity of Water in Metres per Second

LMP	INSIDE DIAMETER OF PIPE (mm)					
	20	25	32	40	50	63
25	1.33	0.85	0.52	0.33	0.21	0.13
60	2.65	1.70	1.04	0.66	0.42	0.27
75	3.98	2.55	1.55	0.99	0.64	0.40
100	5.30	3.39	2.07	1.33	0.85	0.53
150	7.95	5.09	3.11	1.99	1.27	0.80
200	10.60	6.79	4.14	2.65	1.70	1.07
250	13.26	8.48	5.18	3.31	2.12	1.34
300	15.91	10.18	6.21	3.98	2.55	1.60
350	18.58	11.88	7.25	4.64	2.97	1.87
400	21.21	13.57	8.28	5.30	3.39	2.14

\*Recommended suction velocities in YELLOW



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### Dethridge Metre (Irrigation Water Wheel)

GALLONS Per Minute	LITRES Per Second	CUBIC METRE Per Hour	CUSECS Per Second	MEGA LITRES Per Day	REVS Per Minute	ACRE FEET Per Day
188	14	14	51	0.5	1.23	1.01
376	28	103	1.0	2.46	2.0	2.0

*For Guidance Only*