

Nozzle/Pressure/Flow Chart

Nozzle Size	02	025	03	04	05	055	06	065	07	075	08	09	10	11	12.50	15	20
Bar	Flow in litres per minute																
50	3.20	3.96	4.83	6.5	8.16	8.92	9.74	10.51	11.27	12.04	12.86	14.57	16.16	17.70	20.26	24.08	32.33
80	4.03	5.03	6.12	8.24	10.35	11.30	12.35	13.32	14.29	15.27	16.30	18.47	20.49	22.40	25.53	30.58	40.80
100	4.52	5.59	6.81	9.16	11.52	12.58	13.75	14.82	15.89	16.99	18.14	20.56	22.80	25.09	28.57	33.95	45.70
110	4.75	5.88	7.15	9.63	12.10	13.21	14.40	15.57	16.70	17.85	19.06	21.60	23.95	26.32	29.98	35.64	47.94
125	5.06	6.27	7.63	10.27	12.91	14.09	15.40	16.61	17.81	19.03	20.32	23.02	25.54	28	32.01	38.05	51
150	5.55	6.87	8.36	11.25	14.14	15.44	16.88	18.20	19.52	20.86	22.27	25.24	27.99	30.69	35.05	41.66	55.90
160	5.79	7.08	8.62	11.60	14.58	15.92	17.40	18.76	20.12	21.50	22.96	26.02	28.86	31.70	36.27	43.10	57.73
200	6.41	7.93	9.65	12.99	16.33	17.83	19.49	21.01	22.53	24.08	25.72	29.14	32.32	35.39	40.52	48.16	64.46
210	6.55	8.11	9.87	13.28	16.69	18.23	19.92	21.48	23.04	24.62	26.29	29.79	33.04	36.29	41.53	49.36	66.10
250	7.15	8.85	10.78	14.50	18.23	19.90	21.75	23.45	25.15	26.88	28.70	32.53	36.08	39.65	45.38	53.94	72.22
280	7.58	9.38	11.42	15.37	19.32	21.09	23.06	24.86	26.66	28.49	30.42	34.48	38.24	41.89	48.02	57.07	76.30
300	7.84	9.70	11.81	15.89	19.97	21.81	23.84	25.70	27.56	29.46	31.46	35.65	39.54	43.34	49.64	59	78.95
320	8.09	10.02	12.20	16.41	20.63	22.53	24.62	26.55	28.47	30.42	32.49	36.82	40.84	44.80	51.26	60.92	81.60
350	8.47	10.48	12.76	17.17	21.58	23.56	25.75	27.76	29.78	31.82	33.98	38.51	42.71	46.93	53.69	63.81	85.48
400	9.04	11.19	13.62	18.33	23.04	25.15	27.49	29.64	31.79	33.97	36.28	41.11	45.60	50.06	57.34	68.15	91.19
450	9.61	11.89	14.48	19.49	24.49	26.75	29.23	31.52	33.80	36.12	38.57	43.71	48.48	53.20	60.78	72.24	96.90
500	10.12	12.53	15.26	20.53	25.81	28.18	30.80	33.21	35.61	38.06	40.64	46.06	51.08	56	64.02	76.09	102

The above chart represents how nozzle size influences the pressure depending on the litres per minute the pump is producing, this is relevant to all pressure washers and not limited to Aquila.

Example.

The TD352 produces 20 litres of water per minute (not allowing for bypass loss, usually 10 – 15%) on maximum RPM. As standard we use an 04 nozzle, it is not relevant what the jet pattern is (e.g. 1504 – 15° represents the angle, 04 the nozzle size) although the fan choice will dictate the cleaning efficacy.

If we decided we wanted a maximum pressure of 200 bar but required the full flow of water we would use an 055 nozzle. The use of smaller nozzles will not increase the pressure of the machine beyond its maximum set up, however we could achieve higher pressures at lower RPM and flow e.g minimum RPM on a TD352 will produce approximately 9 litres per minute, therefore an 025 nozzle would produce 300 bar.

The use of different nozzle sizes allows us to utilise the use of our equipment,