

Helpful Charts & Conversions

Nozzle Size Chart

Nozzling your high pressure cleaner correctly is crucial to ensure you are getting top performance out of your unit! A nozzle that is too big will result in a drop in pressure, and a nozzle that is too small will force some water to bypass in the pump continuously - eventually causing damage to the pump internals. If you know the pressure in PSI or BAR of your high pressure cleaner, and you know the flow rate - simply use the chart below to check the optimum nozzle size!

Pressure (bar)

	Ø	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200	210	220	230	240	250	260	270	280	290	300
02	.91	2	2.5	2.8	3.2	3.5	3.7	4	4.2	4.5	4.7	4.9	5.1	5.3	5.5	5.7	5.9	6	6.2	6.4	6.6	6.7	6.8	6.9	7	7.1	7.13	7.4	7.5	7.6
03	1.09	3.1	3.7	4.3	4.8	5.3	5.7	6.1	6.3	6.8	7.1	7.4	7.7	8	8.3	8.6	8.9	9.1	9.3	9.5	9.7	9.9	10.1	10.3	10.5	10.6	11.2	11.4	11.6	11.8
04	1.19	4.2	5.2	5.9	6.6	7.3	7.8	8.4	8.9	9.4	9.8	10.3	10.7	11	11.5	11.9	12.2	12.6	12.9	13.3	13.6	13.9	14.2	14.5	14.8	15.1	15.4	15.7	16	16.3
045	1.27	4.5	5.5	6.4	7.1	7.8	8.4	9	9.6	10.2	10.6	11	11.4	11.8	12.2	12.6	13	13.4	13.8	14.2	14.6	15	15.3	15.6	15.9	16.2	16.7	17.1	17.4	17.7
05	1.35	5	6.2	7.1	8	8.7	9.4	10	10.7	11.3	11.9	12.4	12.9	13.4	13.9	14.3	14.7	15.1	15.5	15.9	16.3	16.7	17.1	17.5	17.9	18.2	18.6	18.9	19.2	19.6
055	1.4	5.6	6.7	7.8	8.7	9.6	10.3	11.1	11.8	12.4	13	13.6	14.2	14.8	15.3	15.8	16.3	16.7	17.1	17.5	17.9	18.3	18.7	19.1	19.5	19.9	20.4	20.7	21.1	21.5
06	1.47	6	7.6	8.6	9.6	10.4	11.3	12.1	12.8	13.6	14.2	14.8	15.4	16	16.6	17.1	17.6	18.1	18.6	19.1	19.6	20.1	20.5	20.9	21.3	21.7	22.3	22.7	23.1	23.5
065	1.52	6.6	8	9.3	10.4	11.3	12.3	13.2	14	14.7	15.4	16.1	16.8	17.4	18	18.7	19.4	19.9	20.4	20.9	21.4	21.9	22.4	22.9	23.4	23.8	24.1	24.6	25	25.5
070	1.6	7.1	8.6	10	11.2	12.2	13.2	14.1	15	15.3	16.6	17.3	18	18.7	19.4	20	20.6	21.2	21.8	22.4	22.9	23.4	23.9	24.4	24.9	25.4	25.9	26.4	26.8	27.3
075	1.65	7.6	9.3	10.7	12	13.1	14.2	15.2	16.1	16.9	17.8	18.6	19.3	20.1	20.8	21.5	22.2	22.8	23.4	24	24.6	25.2	25.8	26.3	26.8	27.3	27.9	28.4	28.9	29.4
08	1.7	8	9.8	11.3	12.7	14	15.1	16.1	17.1	18	18.8	19.6	20.4	21.2	22	22.8	23.5	24.2	24.8	25.4	26	26.6	27.2	27.8	28.4	29	29.5	30.1	30.6	31.1
085	1.75	8.5	10.4	12.1	13.5	14.8	16	17.1	18.1	19.1	20	20.9	21.8	22.6	23.4	24.1	24.9	25.6	26.3	27	27.7	28.3	28.9	29.5	30.1	30.7	31.4	31.9	32.5	33.1
09	1.8	9.1	11.1	12.8	14.3	15.7	17	18	19.2	20.2	21.2	22.1	23	23.9	24.7	25.5	26.3	27.1	27.8	28.5	29.2	29.9	30.6	31.3	31.9	32.5	33.2	33.8	34.4	35
10	1.9	10	12.3	14.2	16	17.4	18.9	20.1	21.4	22.5	23.6	24.6	25.6	26.6	27.6	28.5	29.4	30.2	31	31.8	32.6	33.4	34.1	34.9	35.6	36.3	36.9	37.6	38.3	38.9

Flow Rate (L/min)

Hose Pressure Loss Chart

Pressure Drop (Theoretical) calculated for 10m lengths
 Example 1: A pressure cleaner operating at 15L/min, with a 20m 3/8" hose, will experience 20psi pressure loss per 10m of hose, = 40psi pressure loss total.

Flow Rate (L/min)	HOSE INTERNAL DIAMETER (I.D.)							
	1/4" (6.4mm)		5/16" (7.9mm)		3/8" (9.5mm)		1/2" (12.7mm)	
	bar	psi	bar	psi	bar	psi	bar	psi
10	5	73	1.5	22	-	-	-	-
12	7	102	2.2	32	-	-	-	-
15	10	145	3	48	1.4	20	-	-
16	12	174	4	58	1.7	25	-	-
18	14	203	4.6	67	2	29	-	-
20	17	247	5.5	80	2.5	36	-	-
21	18	261	6	87	2.6	38	-	-
25	25	363	8.5	124	3.6	52	-	-
30	35	508	12	174	5	73	1.1	16
35	44	640	15	218	6.6	96	1.5	22
40	60	870	19	275	8	116	2	29
50	90	1300	30	435	13	188	2.7	40

Common Conversions

PRESSURE	
psi (psi)	x 0.0689 = bar
bar (bar)	x 14.504 = psi
FLOW RATE	
Litres per minute (L/min)	x 0.26417 = US gpm
Gallons per minute (gpm)	x 3.785 = L/min
LENGTH	
Millimetres (mm)	x0.03937 = in
Metres (m)	x0.28083 = ft
POWER	
kilowatts (kW)	x 1.341 = hp
horsepower (hp)	x 0.7457 = kw