

Pressure loss in high pressure hose (rubber)

Hose Ø L/min.	NW4 1/8"	NW6 1/4"	NW10 3/8"	NW13 1/2"	NW16 5/8"	NW20 3/4"	NW25 1"	NW32 1 1/4"
15	79.25	10.25	0.82	0.17	0.08	0.01	-	-
20	143.25	18.48	1.45	0.33	0.15	0.05	0.01	-
25	223.10	29.05	2.30	0.55	0.22	0.05	0.02	-
30	320.55	42.07	3.30	0.80	0.30	0.08	0.02	-
35	435.60	57.48	4.50	1.12	0.43	0.10	0.03	-
40	573.03	75.30	5.85	1.48	0.55	0.18	0.05	-
45	723.90	95.50	7.42	1.90	0.70	0.22	0.07	0.01
50	892.40	116.35	9.15	2.35	0.87	0.25	0.10	0.01
55	-	141.18	11.10	2.88	1.15	0.30	0.10	0.02
60	-	168.41	13.20	3.45	1.25	0.40	0.10	0.02
65	-	198.03	15.50	4.05	1.50	0.45	0.15	0.05
70	-	229.95	17.95	4.73	1.70	0.52	0.17	0.05
75	-	264.37	20.62	5.45	2.00	0.60	0.20	0.05
80	-	301.20	23.47	6.22	2.25	0.73	0.20	0.05
85	-	340.40	26.50	7.05	2.50	0.80	0.25	0.07
90	-	382.02	29.70	7.90	2.80	0.88	0.28	0.07
95	-	422.70	33.10	8.85	3.10	0.95	0.32	0.10
100	-	468.93	36.67	9.80	3.50	1.15	0.37	0.10
125	-	-	57.03	15.02	5.00	1.75	0.58	0.15
150	-	-	82.50	21.83	8.00	2.50	0.85	0.22
175	-	-	112.30	29.90	10.70	3.38	1.15	0.33
200	-	-	146.70	39.25	14.00	4.58	1.50	0.40
225	-	-	185.65	49.88	18.00	5.75	1.90	0.50
250	-	-	229.20	60.95	22.00	7.05	2.35	0.65
275	-	-	277.35	74.00	26.50	8.47	2.83	0.77
300	-	-	330.05	88.35	31.50	10.30	3.37	0.95
325	-	-	387.37	103.97	36.90	12.02	3.95	1.10
350	-	-	449.26	120.85	42.80	13.87	4.60	1.32
375	-	-	515.73	137.77	49.20	15.85	5.28	1.48
400	-	-	-	158.00	56.00	19.30	6.00	1.80

Pressure losses calculated for 10 metre hose length.

Example using an Aquila SD166

Length of hose 100m (1/2") on full pressure and flow (160bar @ 60 litres per minute) –
 $10 \times 3.45 = 34.50$ bar pressure loss.

The same as above but using 3/8" hose would result in $10 \times 13.20 = 132$ bar pressure loss.

The same as above but using 5/8" hose would result in $10 \times 1.25 = 12.5$ bar pressure loss.