

\* Pressure drop in psi (pounds per square inch)/gpm (gallons per minute) for **10 feet of hose** (smooth bore) without fittings. Fluid specification: Specific gravity = .85; Viscosity =  $\nu = 20$  centistokes (C.S.), (20 C.S. = 97 S.S.U.).

**Hose pressure drop**

Hose Dash Size →	-04	-05	-06	-08	-10	-12	-16	-20	-24	-32	-40	-48																	
Hose I.D. (inches) ←	.19	.25	.25	.31	.31	.38	.41	.50	.50	.63	.63	.75	.88	1.00	1.13	1.25	1.38	1.50	1.81	2.00	2.38	3.00							
.25	10	3.1	3.1																										
.50	19	6	6	2.7	2.7																								
1	40	12	12	5.5	5.5	2.4																							
2	95	24	24	10	10	4.8	3.5																						
3	185	46	46	17	17	7	5	2.2	2.2																				
4		78	78	29	29	12	8	3	3	1.2	1.2																		
5		120	120	44	44	18	12	4.5	4.5	1.6	1.6	.72																	
8				95	95	39	26	10	10	3.6	3.6	1.4	.60																
10						59	40	15	15	5.7	5.7	2	1	.55															
12						80	52	20	20	7.2	7.2	2.6	1.5	.75	.43														
15							75	30	30	10	10	4.2	2.2	1.2	.67	.38													
18							107	40	40	15	15	6.3	3	1.5	.70	.55	.35												
20								49	49	19	19	8	3.4	2	1.1	.65	.43	.27											
25									72	72	26	26	11	5.5	3	1.6	1	.64	.40	.17									
30											34	34	14	7	3.6	2.2	1.3	.80	.52	.22	.14								
35											47	47	19	9.5	5	2.8	1.7	1.1	.70	.27	.18								
40													25	12	6.5	3.4	2.2	1.4	.90	.38	.24								
50														36	17	9	5.3	3.3	2	1.3	.54	.35	.15						
60															50	23	12	7.5	4.4	2.8	1.8	.75	.45	.20					
70																31	17	9.3	6	3.8	2.4	1	.65	.30					
80																	38	21	12	7.1	4.6	3	1.2	.76	.34	.11			
90																		49	27	15	9	5.9	3.8	1.5	1	.45	.13		
100																			33	19	12	7	4.7	1.9	1.3	.55	.18		
150																				60	36	22	13	8.5	3.4	2.2	1	.33	
200																						36	23	15	6	3.9	1.7	.55	
250																							54	33	22	8.5	5.3	2.5	.75
300																								45	29	12	7.5	4	1.1
400																									51	21	14	6.5	2.2
500																										32	20	10	3
800																												18	5
1000																													10

U.S. Gallons per minute

\*Pressure drop values listed are typical of many petroleum based hydraulic oils at approximately +100°F (+38°C). Differences in fluids, fluid temperature and viscosity can increase or decrease actual pressure drop compared to the values listed.

**To convert**  
 U.S. gallons into Imperial gallons multiply U.S. gallons by 0.83267. Imperial gallons into U.S. gallons multiply Imperial gallons by 1.20095. U.S. gallons to litres multiply by 3.785. Litres to U.S. gallons, multiply by 0.2642.