



TRANSFER OIL

thermoplastic and ptfe hoses - fittings and assemblies

pressure drop table

Last updated

July 7, 2014

HOSE ID	DN3		1/8"		3/16"		1/4"		5/16"		3/8"		1/2"		3/4"		1"	
	speed (m/s)	Δp (bar)	speed (m/s)	Δp (bar)	speed (m/s)	Δp (bar)	speed (m/s)	Δp (bar)	speed (m/s)	Δp (bar)	speed (m/s)	Δp (bar)	speed (m/s)	Δp (bar)	speed (m/s)	Δp (bar)	speed (m/s)	Δp (bar)
2	4,7	10,8																
4	9,4	36,2																
6	14,2	73,8	8,0	18,8														
8	18,9	122,6	10,6	31,1	7,1	11,9												
10	23,6	181,9	13,3	46,1	8,8	17,5	5,5	5,7										
15			19,9	94,5	13,3	35,9	8,3	11,7										
20			26,5	157,6	17,7	59,8	11,0	19,4	6,8	6,1								
30					26,5	123,0	16,6	39,9	10,2	12,6	6,5	4,3						
40							22,1	66,7	13,6	20,9	8,7	7,1	5,1	2,0				
50									17,0	31,1	10,8	10,6	6,4	3,0				
100									34,0	108,0	21,7	36,6	12,8	10,3	5,9	1,6		
150											32,5	75,9	19,1	21,3	8,8	3,3		
200													25,5	35,7	11,8	5,6	6,9	1,6
300															17,6	11,6	10,4	3,2
400															23,5	19,5	13,8	5,4
500																	17,3	8,1
600																	20,7	11,3

Δp (bar) on a free length of 10m.

Medium: water 20°C

Selection of an undersized hose could lead to high fluid velocity causing an excessive pressure drop and heat built up, with resultant damage to overall system performance.

After determining the system pressure, hose selection should be made so that the recommended Max WP is equal or greater than the maximum system pressure.

Do not exceed the recommended working temperature.

Grey section of the table refers to velocity < 15 m/s (low drop pressure - recommended)

Orange section of the table refers to velocity > 15 m/s (high drop pressure - not recommended)