

208 - 8SW - HELIX

part no.	hose size			ID		OD		WP		BP		safety factor	bend radius		weight		ferrule part no.		quantity
	dash	inch	DN	mm	inch	mm	inch	bar	psi	bar	psi		mm	inch	g/m	lbs/ft	standard	A316L	
2081	-3	3/16	DN5	4,70	0,185	16,00	0,630	3800	55000	9500	137500	2,24:1	230	9,055	800	0,538	HAI111	-	577
2083	-5	5/16	DN8	7,60	0,299	22,00	0,866	3800	55000	9000	130500	2,37:1	300	11,811	1530	1,028	HAI131	-	107
2085	-8	1/2	DN12	12,8	0,504	28,70	1,130	3010	43600	6250	90600	2,08:1	350	13,78	2420	1,626	HAI151	-	354

WJTA-IMCA Color Coding Scheme for Pressure Hoses - Maximum Working Pressure Applicable

■ 10,000 PSI / 690 bar   
 ■ 15,000 PSI / 1034 Bar   
 ■ 20,000 PSI / 1379 Bar   
 ■ 30,000 PSI / 2068 Bar   
 ■ 40,000 PSI / 2758 Bar   
 ■ 55,000 PSI / 3792 Bar

\* The safety factor between the burst pressure and working pressure depend on the application requirements. Four to one (4:1) safety factor should be used in dynamic impulsive hydraulic applications.

\*\* The maximum WORKING PRESSURE of an assembly is given by the component having the lowest working pressure.

This means that if the working pressure of a fitting is lower than the working pressure of the hose, the WORKING PRESSURE of the fitting becomes the WORKING PRESSURE of the entire assembly.

The maximum WORKING PRESSURE of the assembly can be found marked on each sleeve of the assembly and on the pressure test report.

**INNER TUBE**

Polyoxymethylene (POM)

**REINFORCEMENT**

Eight spiral layers of higher tensile steel wire

**COVER**

Special Polyester Copolymer, non pinpricked, black ink-jet branding

**INDUSTRIAL APPLICATIONS**

Waterjet cutting. Tube cleaning, surface preparation and paint removal. Hydro demolition. Ships, tanks and vessel cleaning. Waterblast supply hose. General industrial cleaning. Removal of accumulated dirt from surfaces.

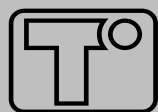
**HYDRAULIC APPLICATIONS**

Hydraulic jacks // Bolt tensioning // Testing applications // General UHP hydraulic applications

**FEATURES**

Ultra high working pressure // Excellent chemical resistance // Resistance to ozone, ultraviolet light and aging // High resistance against abrasion // Low volumetric expansion at maximum working pressure // Resistant to sea water // High impulse resistance // Long length capability // Excellent cut and crush resistance





# 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)