226 - 6SWHX - HELIX																			
																			
	hose size			ID		OD		WP		BP		safety factor	bend radius		weight		ferrule part no.		quantity
part no.	dash	inch	DN	mm	inch	mm	inch	bar	psi	bar	psi		mm	inch	g/m	lbs/ft	standard	A316L	m
2261	-3	3/16	DN5	4,60	0,181	14,80	0,583	3200	46400	8000	116000	2,5:1	210	8,268	640	0,430	HAH111	-	226
2263	-5	5/16	DN8	7,60	0,299	19,70	0,776	2800	40000	7000	100000	2,5:1	250	9,843	1078	0,724	HAH131	-	2.733
2265	-8	1/2	DN12	12,8	0,504	26,00	1,024	2500	36200	6250	90500	2,5:1	350	13,78	1770	1,189	HAH151	-	N/A

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 impulsing 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

Six 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

TEMPERATURE RANGE

-30 °C to +60 °C (-22 °F to +140 °F)

DESCRIPTION

Ultra High Pressure hose utilising high tensile steel wire applied in counter rotating multiple spiral layers.
Tube and cover of engineering polymer with intermediate adhesion layers.
Available also as factory made assemblies: please contact our sales office for further details.

AVAILABLE INSERTS

				F-BSPP	M-BSPP	F-Met 24°-60°	F-DKOS	F-JIC	F-NPT	M-NPT	Type-M Fem	M-MP	M-HP	M-Met HP	F-HP	M-GAS	Male Met	GAS 100°	M-Usit	M-Flat Seal	Male DIN3852	Male Flat Seal Met
226 - 6SWHX	#	Inch	DN	HB	HP	HC	HD	HE	HH	HI	HF	HL	HM	HN	HG	HJ	HK	HQ	HR	HS	HT	HU
2261	-3	3/16	DN5	HBI		HCI					HFI		HMI	HNI	HGI							
2263	-5	5/16	DN8				HDI				HFI	HLI	HMI	HNI								
2265	-8	1/2	DN12				HDI				HFI		HMI	HNI								

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"	
FLOW (l/min)	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)