214 - 4SWH - 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
2140	-	5/32	DN4	4,0	0,157	9,90	0,390	2200	31000	5500	80000	2,5:1	120	4,724	210	0,141	HAC101	HAC801	N/A
2141	-3	3/16	DN5	5,1	0,201	12,4	0,488	2050	30000	5125	75000	2,5:1	140	5,512	350	0,235	HAD111	HAD811	540
2145	-8	1/2	DN12	12,8	0,504	22,5	0,886	1400	20000	3500	50000	2,5:1	180	7,087	970	0,652	HAD151	HAD851	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

* Il fattore di sicurezza tra pressione di scoppio e pressione di lavoro dipende dai requisiti dell'applicazione. Il fattore di sicurezza quattro a uno (4:1) dovrebbe essere utilizzato in applicazioni oleodinamiche ad impulsi dinamici.

** La massima PRESSIONE DI ESERCIZIO di un raccordato è data dal componente che ha la pressione di esercizio più bassa.
Ciò significa che se la pressione di esercizio di un raccordo è inferiore alla pressione di esercizio del tubo, la PRESSIONE DI ESERCIZIO del raccordo diventa la PRESSIONE DI ESERCIZIO dell'intero assemblato.
La massima PRESSIONE DI ESERCIZIO sarà indicata su ciascuna boccola e sul test report del prodotto.

INNER TUBE

Polyamide (PA)

REINFORCEMENT

Four spiral layers of 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
214 - 4SWH	#	inch	DN	HB	HP	HC	HD	HE	HH	HI	HF	HL	HM	HN	HG	HJ	HK	HQ	HR	HS	HT	HU
2140	-	5/32	DN4	HBC	HPC					HIC	HFE		HME									
2145	-8	1/2	DN12	HBG			HDG	HEG		HIG	HFG	HLG	HMG									

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)