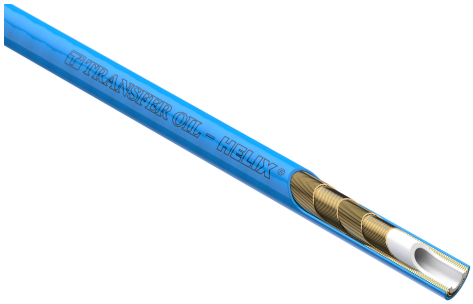
# TRANSFER OIL
Pure Fluid Attitude

# 214 - 4SWH - HELIX

Thermoplastic multispiral hose for UHP water based applications from 1400 bar (20300 psi)




## FEATURES

### Inner Tube
Polyoxymethylene (POM)- 2140 | Polyamide PA12 - 2145

### Reinforcement
Four spiral layers of steel wire

### Cover
Polyamide (PA), non pinpricked, laser branding

### Industrial Applications
Heat Exchanger Tube cleaning // Surface preparation and paint removal // Hydro-demolition // Ships, tanks and vessel cleaning // Waterblast // General industrial cleaning // Removal of accumulated dirt from surfaces.

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

### Temperature Range
-30°C to 70°C (-22°F to 158°F)

### 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

### 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 As Factory Made Assemblies: Please Contact Our Sales Office For Further Details.

### Standard Branding
TRANSFER OIL – HELIX ® - TO UHP - Part No - 4SWH - Inch Size - DN Size - WP bar / psi - MADE IN ITALY - www.transferoil.com - QQ/YY - Batch No

| Part no. | DN | Inches | Dash | ID (mm) | OD (mm) | WP (bar) | BP (bar) | ID (inch) | OD (inch) | WP (psi) | BP (psi) | SF | BR (mm) | BR (inch) | Weight (gr/m) | Weight (lb/ft) | Ferrule standard | Ferrule A316L |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2140 | DN4 | 5/32 | - | 4.0 | 9.9 | 2200 | 5500 | 0.157 | 0.390 | 31900 | 79750 | 2.5:1 | 120 | 4.72 | 206 | 0.139 | HAC101 | HAC801 |
| 2145 | DN12 | 1/2 | -8 | 12.8 | 22.5 | 1400 | 3500 | 0.504 | 0.886 | 20000 | 50000 | 2.5:1 | 180 | 7.09 | 968 | 0.650 | HAD151 | HAD851 |

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.

## AVAILABLE INSERTS

| Part | Dash | Inch | DN | F-BSPP | F-DKOS | F-JIC | F-MET24-60 | F-TYPE | M-BSPP | M-GAS100 | M-HP | M-MP | M-NPT | M-USIT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2140 | - | 5/32 | DN4 | HBC | | | | HFE | HPC | | HME | | HIC | |
| 2145 | -8 | 1/2 | DN12 | HBG | HDG | HEG | | HFG | | | HMG | HLG | HIG | |

*Dimensions and values shown may be changed without prior notice to improve product performances and reliability.*
*Transfer Oil S.p.A. assumes no liability on mistakes nor errors appearing in this spec sheet.*
*Document date: 26/11/2026*
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