



TRANSFER OIL

Pure Fluid Attitude



202 - 2SW - HELIX

Thermoplastic multispiral hose for UHP water based applications from 690 to 1050 bar (10000 to 15000 psi)



FEATURES

Inner Tube

DN 3-6: Polyoxymethylene (POM); DN 8-12: Polyamide (PA)

Reinforcement

Two spiral layers of steel wire

Cover

Special Polyester Copolymer, non pinpricked, laser branding

Industrial Applications

Heat Exchanger Tube cleaning // Ships, tanks and vessel cleaning // Waterblast // General industrial cleaning // Removal of accumulated dirt from surfaces.

Hydraulic Applications

Hydraulic jacks // Bolt tensioning // Pressure 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 - 2SW - 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 |
|----------|------|--------|------|---------|---------|----------|----------|-----------|-----------|----------|----------|-------|---------|-----------|---------------|----------------|------------------|---------------|
| 202B | DN3 | 1/8 | -2 | 3.5 | 7.2 | 1050 | 2625 | 0.138 | 0.283 | 15000 | 37500 | 2.5:1 | 60 | 2.36 | 92 | 0.062 | HAA1G1 | |
| 2020 | DN4 | 5/32 | - | 4.1 | 8.2 | 1050 | 2625 | 0.161 | 0.323 | 15000 | 37500 | 2.5:1 | 70 | 2.76 | 105 | 0.070 | HAA101 | HAA801 |
| 2021 | DN5 | 3/16 | -3 | 5.2 | 9.9 | 1050 | 2625 | 0.205 | 0.390 | 15000 | 37500 | 2.5:1 | 90 | 3.54 | 152 | 0.102 | HAA111 | HAA811 |
| 2022 | DN6 | 1/4 | -4 | 6.4 | 11.5 | 1050 | 2625 | 0.252 | 0.453 | 15000 | 37500 | 2.5:1 | 110 | 4.33 | 207 | 0.139 | HAA121 | HAA821 |
| 2023 | DN8 | 5/16 | -5 | 7.9 | 13.7 | 900 | 2250 | 0.311 | 0.539 | 12900 | 32250 | 2.5:1 | 130 | 5.12 | 251 | 0.168 | HAA131 | |
| 2024 | DN10 | 3/8 | -6 | 9.9 | 16.4 | 690 | 1725 | 0.390 | 0.646 | 10000 | 25000 | 2.5:1 | 150 | 5.91 | 313 | 0.210 | HAA141 | |
| 2025 | DN12 | 1/2 | -8 | 12.8 | 20.4 | 690 | 1725 | 0.504 | 0.803 | 10000 | 25000 | 2.5:1 | 190 | 7.48 | 472 | 0.317 | HAA151 | |

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-BSPP-60 | F-DKOS | F-JIC | F-MET24-60 | F-NPT | F-TYPE | M-BSPP | M-DIN3852 | M-FS | M-GAS | M-GAS100 | M-HP | M-MET | M-MP | M-NPT | M-USIT |
|------|------|------|------|--------|-----------|--------|-----------------|------------|-------|--------|--------|-----------|------|-------|----------|-----------------|-------|------|-------|--------|
| 202B | -2 | 1/8 | DN3 | HBA | | | | | | | | | | | | | HKA | | HWA | |
| 2020 | - | 5/32 | DN4 | HBB | | HDB | | | | HFB | HPB | | HSB | HJB | HQB | HM _B | HKB | | HIB | HRB |
| 2021 | -3 | 3/16 | DN5 | HBA | | HDA | | HCA | | HFA | HPA | | HSA | HJA | | | HKA | | HIA | |
| 2022 | -4 | 1/4 | DN6 | HBB | | HDB | HE _B | HCB | HHB | HFB | HPB | HTB | HSB | OJA | HQB | HM _B | HKB | HLB | HIB | HRB |
| 2023 | -5 | 5/16 | DN8 | HBA | | HDA | HEA | | | HFA | HPA | HTA | HSA | | HQA | | | | HIA | |
| 2024 | -6 | 3/8 | DN10 | HBB | | HDB | HE _B | | | HFB | HPB | HTB | | | | | | | HIB | |
| 2025 | -8 | 1/2 | DN12 | HBA | | HDA | | | | HFA | | | | | | | | HLA | HIA | |

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.

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