

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 |          |
|          | 2363      | -5   | 5/16 | DN8 | 7,60 | 0,299 | 22,50 | 0,866 | 2500 | 36200 | 6250 |               | 90500       | 2,5:1 | 300    | 11,811 | 1510             | 1,014 |          |

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**

First cover Special Polyester Copolymer

Second cover Antiabrasion Polyurethane Black, non pinpricked, white ink-jet branding

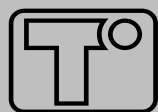
**INDUSTRIAL APPLICATIONS**

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





# 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)