

**RTH1**  
**STAINLESS STEEL**  
**BRAID TEFLON® HOSE**



**RECOMMENDED FOR:**

High pressure hydraulic oil lines. Fluids at extremes of pressure and temperature. RYCO RTH1 Series Hose Lining is chemically pure, inert and contains no leachable additives. RYCO RTH1 is remarkably resistant to high temperature and flame. It has a very high melting point, thermal degradation threshold and auto-ignition temperature. Warning: RTH1 Hose Lining is non-conductive. Do not use with high velocity fluids and gases, as static electricity may be generated and cause premature failure of hose. If in doubt contact RYCO Hydraulics technical department.

**PERFORMANCE:**

Meets or Exceeds the Performance Requirements of: SAE 100R14. RTH112 meets ID and OD requirements of SAE 100R14. Other sizes have ID and OD different to SAE 100R14.

**TUBE:**

TEFLON® (PTFE).

**REINFORCEMENT:**

One braid of high tensile Grade 304 stainless steel wire.

**TEMPERATURE RANGE:**

From -60°C to +260°C (-76°F to +500°F).  
 (According to application).  
 For water, emulsions etc. see page 58.

| WORKING TEMPERATURE |                    | % OF WORKING PRESSURE THAT MAY BE USED SAFELY |
|---------------------|--------------------|---|
| °C                  | °F                 | Percentage                                    |
| -60°C to +100°C     | (-76°F to +212°F)  | 100   |
| +101°C to +150°C    | (+214°F to +302°F) | 93  |
| +151°C to +200°C    | (+304°F to +392°F) | 85  |
| +201°C to +250°C    | (+394°F to +482°F) | 77  |
| +251°C to +260°C    | (+484°F to +500°F) | 70  |

**WORKING PRESSURE:**

Maximum working pressures are based on 4:1 safety factor (maximum working pressure to minimum burst pressure).

**THIRD PARTY APPROVALS:**

ABS, DNV-GL, LR, MED, USCG, DOT, GOST-R, BV, RINA and KR.

**COUPLINGS:**

**ONE-PIECE CRIMP**

**TT000 Series** (sizes -04 to -16) pages 317 to 320.  
 Assembly instructions page 480.

| RTH1 - TEFLON® HOSE |           | NOMINAL HOSE ID |      | NOMINAL HOSE OD |      | MAXIMUM WORKING PRESSURE |      | MAXIMUM WORKING PRESSURE SAE100R14 |      | MINIMUM BURST PRESSURE |      | MINIMUM BEND RADIUS |      | AVERAGE WEIGHT |       | COUPLING SERIES |
|---------------------|-----------|-----------------|------|-----------------|------|--------------------------|------|------------------------------------|------|------------------------|------|---------------------|------|----------------|-------|-----------------|
| PART NO             | HOSE SIZE | mm              | inch | mm              | inch | bar                      | psi  | bar                                | psi  | bar                    | psi  | mm                  | inch | kg/m           | lb/ft | ONE PIECE       |
| RTH14               | 6 -04     | 6,4             | 1/4  | 9,4             | 0.37 | 170                      | 2450 | 105                                | 1500 | 680                    | 9800 | 75                  | 3.0  | 0,12           | 0,08  | TT000           |
| RTH16               | 10 -06    | 9,5             | 3/8  | 11,7            | 0.46 | 165                      | 2375 | 105                                | 1500 | 660                    | 9500 | 125                 | 5.0  | 0,14           | 0,09  | TT000           |
| RTH18               | 12 -08    | 12,7            | 1/2  | 15,4            | 0.61 | 120                      | 1750 | 56                                 | 800  | 485                    | 7000 | 140                 | 5.5  | 0,22           | 0,15  | TT000           |
| RTH110              | 16 -10    | 15,9            | 5/8  | 18,4            | 0.72 | 105                      | 1500 | 56                                 | 800  | 420                    | 6000 | 165                 | 6.5  | 0,28           | 0,19  | TT000           |
| RTH112              | 19 -12    | 19,1            | 3/4  | 22,1            | 0.87 | 85                       | 1250 | 56                                 | 800  | 345                    | 5000 | 200                 | 8.0  | 0,33           | 0,22  | TT000           |
| RTH116              | 25 -16    | 25,4            | 1    | 28,6            | 1.13 | 55                       | 800  | 56                                 | 800  | 220                    | 3200 | 300                 | 12.0 | 0,46           | 0,31  | TT000           |

\* DuPont Registered TM  
 Refer to the latest RYCO Crimp Charts for crimp diameter and mark lengths.

RTH1

CHIRIBOGA & JARA S.A.