

# 1.11 Wire Braid Hydraulic Hose

## EN 853 Type 1SN / SAE 100R1 AT

**Tube:** oil resistant synthetic rubber

**Reinforcement:** One braid of high-tensile steel wire.

**Cover:** Black, abrasion and weather resistant synthetic rubber. MSHA accepted.

**Temperature range:** - 40°C to + 100°C



| Hose ID |      | Wire OD | Hose OD | Working Pressure |      | Burst Pressure |       | Minimum Bend Radius | Weight |
|---------|------|---------|---------|------------------|------|----------------|-------|---------------------|--------|
| inch    | mm   | mm      | mm      | Mpa              | Psi  | Mpa            | Psi   | mm                  | Kg/m   |
| 3/16    | 4.8  | 9.5     | 11.8    | 25               | 3630 | 100            | 14280 | 90                  | 0.190  |
| 1/4     | 6.4  | 10.8    | 12.8    | 22.5             | 3270 | 90             | 12840 | 100                 | 0.222  |
| 5/16    | 7.9  | 12.5    | 14.5    | 21.5             | 3120 | 85             | 12280 | 115                 | 0.261  |
| 3/8     | 9.5  | 14.6    | 16.8    | 18               | 2610 | 72             | 10280 | 130                 | 0.324  |
| 1/2     | 12.7 | 17.6    | 19.8    | 16               | 2320 | 64             | 9180  | 180                 | 0.418  |
| 5/8     | 15.9 | 21.1    | 23.1    | 13               | 1890 | 52             | 7420  | 200                 | 0.476  |
| 3/4     | 19.0 | 24.7    | 27.0    | 10.5             | 1530 | 42             | 6000  | 240                 | 0.619  |
| 1       | 25.4 | 32.5    | 35.0    | 8.8              | 1280 | 35             | 5020  | 300                 | 0.883  |
| 1-1/4   | 31.8 | 39.5    | 43.5    | 6.3              | 920  | 25             | 3600  | 420                 | 1.220  |
| 1-1/2   | 38.1 | 45.8    | 49.8    | 5                | 730  | 20             | 2860  | 500                 | 1.408  |
| 2       | 50.8 | 59.0    | 63.0    | 4                | 580  | 16             | 2280  | 630                 | 1.889  |

## EN 853 Type 2SN / SAE 100 R2AT

**Tube:** oil resistant synthetic rubber.

**Reinforcement:** two high tensile steel wire braided.

**Cover:** Black, abrasion and weather resistant synthetic rubber. MSHA accepted.

**Temperature range:** - 40°C to + 100°C



| Hose ID |      | Wire OD | Hose OD | Working Pressure |      | Burst Pressure |       | Minimum Bend Radius | Weight |
|---------|------|---------|---------|------------------|------|----------------|-------|---------------------|--------|
| inch    | Mm   | mm      | mm      | Mpa              | Psi  | Mpa            | Psi   | mm                  | Kg/m   |
| 3/16    | 4.8  | 11.1    | 13.4    | 41.4             | 6000 | 165            | 23720 | 90                  | 0.310  |
| 1/4     | 6.4  | 12.6    | 14.6    | 40               | 5800 | 160            | 22840 | 100                 | 0.342  |
| 5/16    | 7.9  | 14.3    | 16.3    | 36               | 5250 | 140            | 20000 | 115                 | 0.403  |
| 3/8     | 9.5  | 16.4    | 18.6    | 33.1             | 4800 | 132            | 18840 | 130                 | 0.491  |
| 1/2     | 12.7 | 19.4    | 21.6    | 27.6             | 4000 | 110            | 15720 | 180                 | 0.646  |
| 5/8     | 15.9 | 22.9    | 24.9    | 25               | 3630 | 100            | 14280 | 200                 | 0.733  |
| 3/4     | 19.0 | 26.5    | 28.8    | 21.5             | 3120 | 85             | 12280 | 240                 | 0.929  |
| 1       | 25.4 | 34.2    | 36.8    | 16.5             | 2400 | 65             | 9420  | 300                 | 1.334  |
| 1-1/4   | 31.8 | 41.3    | 45.3    | 12.5             | 1820 | 50             | 7140  | 420                 | 1.684  |
| 1-1/2   | 38.1 | 47.8    | 51.8    | 9                | 1310 | 36             | 5140  | 500                 | 1.918  |
| 2       | 50.8 | 61.0    | 65.0    | 8                | 1160 | 32             | 4560  | 630                 | 2.559  |