

## Stainless Steel Hose

### VITALFLEX® - Omega / Braided Braid



**Omega Part No.:** SS0-O Tube Only / SS1-O Tube and Single Braid / SS2-O Tube and Double Braid

**Braided Braid Part No.:** SS0-B Tube Only / SS1-B Tube and Single Braid / SS2-B Tube and Double Braid

**Construction:** Omega / Close Pitch

**Tube Available:** 304 / 316 Stainless Steel

**Braid Available:** 304 / 316 Stainless Steel

**Size Available:** 5" - 20"

(Larger sizes upon Request)

**Max Temp:** -276°C to 700°C

Low | Med | High

Flexibility 

Cycle Life 

Pressure Rating 

Chemical Resistance 

Wall Thickness 

#### Construction



#### Applicable Standards:

Corrugated Metal Hoses: ISO 10380

AGA Approved: AS 4631 (upon request)

Watermark Approved: WMTS 520 (upon request)

Welding Compliant: AS 4041- Class 1 (upon request)

Seismic Rated: AS 1170 (upon request)

Activfire Certified: AS 2118.1 (upon request)

#### Temperature Correction Factor

| -200 | -150 | -100 | -50 | 0   | 20  | 50   | 100  | 150  | 200  | 250  | 300  | 350  | 400  | 450  | 500  | 550  | 600  | 650  | 700 |
|------|------|------|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|
| 1.0  | 1.0  | 1.0  | 1.0 | 1.0 | 1.0 | 0.93 | 0.83 | 0.72 | 0.66 | 0.62 | 0.59 | 0.56 | 0.55 | 0.53 | 0.51 | 0.50 | 0.50 | 0.19 | 0.1 |

#### Omega

| Nominal Dia. |      | Outside Dia. (mm) |     |     | Weight (Kg/m) |     |      | Min. Bend Radius (mm) |         | Working Pressure (kPa) |      |      | Burst Pressure (kPa) |      |      |
|--------------|------|-------------------|-----|-----|---------------|-----|------|-----------------------|---------|------------------------|------|------|----------------------|------|------|
| mm           | inch | SS0               | SS1 | SS2 | SS0           | SS1 | SS2  | Static                | Dynamic | SS0                    | SS1  | SS2  | SS0                  | SS1  | SS2  |
| 125          | 5"   | 151               | 155 | 159 | 2.8           | 5   | 7.2  | 500                   | 1200    | 200                    | 1610 | 2455 | 800                  | 6440 | 9820 |
| 150          | 6"   | 176               | 184 | 188 | 3.8           | 6.6 | 9.4  | 600                   | 1500    | 200                    | 1610 | 2455 | 800                  | 6440 | 9820 |
| 200          | 8"   | 238               | 245 | 250 | 6.7           | 12  | 17.3 | 800                   | 2000    | 200                    | 1250 | 1975 | 800                  | 5000 | 7900 |
| 250          | 10"  | 292               | 303 | 308 | 10.6          | 17  | 25   | 1000                  | 2200    | 200                    | 1022 | 1597 | 800                  | 4088 | 6388 |
| 300          | 12"  | 345               | 365 | 370 | 17.1          | 20  | 26.5 | 1200                  | 2500    | 200                    | 815  | 1280 | 800                  | 3260 | 5120 |
| 350          | 14"  | 400               | 415 | 420 | 20            | 24  | 29   | 1400                  | 3000    | 200                    | 805  | 1207 | 800                  | 3220 | 4828 |
| 400          | 16"  | 460               | 465 | 470 | 22.8          | 28  | 33   | 1600                  | 3500    | 200                    | 600  | 1000 | 800                  | 2400 | 4000 |
| 450          | 18"  | 500               | 502 | 504 | 40            | 50  | 60   | 2250                  | 4500    | 100                    | 500  | 800  | 400                  | 2000 | 3200 |
| 500          | 20"  | 575               | 577 | 579 | 46            | 58  | 70   | 2500                  | 5000    | 100                    | 500  | 800  | 400                  | 2000 | 3200 |

Higher pressure hoses can be designed on request

#### Braided Braid (High Pressure)

| Nominal Dia. |      | Outside Dia. (mm) |     |     | Weight (Kg/m) |      |      | Min. Bend Radius (mm) |         | Working Pressure (kPa) |      |      | Burst Pressure (kPa) |      |       |
|--------------|------|-------------------|-----|-----|---------------|------|------|-----------------------|---------|------------------------|------|------|----------------------|------|-------|
| mm           | inch | SS0               | SS1 | SS2 | SS0           | SS1  | SS2  | Static                | Dynamic | SS0                    | SS1  | SS2  | SS0                  | SS1  | SS2   |
| 125          | 5"   | 151               | 158 | 165 | 2.8           | 5    | 7.2  | 500                   | 1200    | 200                    | 1935 | 2902 | 800                  | 7740 | 11608 |
| 150          | 6"   | 176               | 187 | 194 | 3.8           | 7    | 9.4  | 600                   | 1500    | 200                    | 1800 | 2700 | 800                  | 7200 | 10800 |
| 200          | 8"   | 238               | 248 | 256 | 6.7           | 12.5 | 18   | 800                   | 2000    | 200                    | 1613 | 2578 | 800                  | 6452 | 10312 |
| 250          | 10"  | 292               | 306 | 314 | 10.6          | 18.1 | 25.8 | 1000                  | 2200    | 200                    | 1211 | 1937 | 800                  | 4844 | 7748  |
| 300          | 12"  | 345               | 368 | 376 | 17.1          | 21   | 28   | 1200                  | 2500    | 200                    | 910  | 1456 | 800                  | 3640 | 5824  |
| 350          | 14"  | 400               | 418 | 426 | 20            | 25   | 30   | 1400                  | 3000    | 200                    | 885  | 1416 | 800                  | 3540 | 5664  |
| 400          | 16"  | 460               | 468 | 476 | 22.8          | 30.2 | 38   | 1600                  | 3500    | 200                    | 780  | 1170 | 800                  | 3120 | 4680  |
| 450          | 18"  | 500               | 505 | 510 | 40            | 52   | 64   | 2250                  | 4500    | 100                    | 600  | 900  | 400                  | 2400 | 3600  |
| 500          | 20"  | 575               | 580 | 585 | 46            | 60   | 74   | 2500                  | 5000    | 100                    | 550  | 825  | 400                  | 2200 | 3300  |

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