

# 4ST+



## EXCEEDS SAE 100 R15

### FOUR WIRE SPIRAL THIN COVER HOSE



#### Construction

- 1 - Synthetic rubber tube
- 2 - Four high tensile steel wire spirals
- 3 - Synthetic rubber cover Abrasion resistant Type, MSHA flame retardant approved

#### Application

High pressure hydraulic system with extreme high pressure peaks for use with hydraulic oils, both mineral and biological, polyglycol base oils, water-oil emulsions and water

#### Temperature range

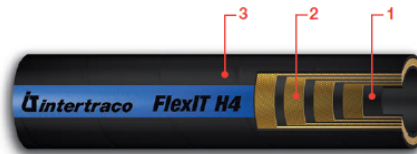
Hydraulic oils: -40°C to +121°C (-40°F to +250°F)  
occasional peaks up to +125°C (+257°F)  
Polyglycol base oils, water-oil emulsions and water: up to +85°C (+185°F)

| HOSE TYPE | Ø HOSE |        |      | REINFORCEMENT DIAMETER |       | OUTSIDE DIAMETER |       | WORKING PRESSURE |       | BURST PRESSURE |       | BEND RADIUS |       | WEIGHT |         |
|-----------|--------|--------|------|------------------------|-------|------------------|-------|------------------|-------|----------------|-------|-------------|-------|--------|---------|
|           | DN     | INCH   | SIZE | [mm]                   | [in]  | [mm]             | [in]  | [bar]            | [psi] | [bar]          | [psi] | [mm]        | [in]  | [kg/m] | [lb/ft] |
| 4ST+ 06   | 10     | 3/8"   | 06   | 17,2                   | 0,677 | 19,9             | 0,783 | 450              | 6500  | 1800           | 26000 | 100         | 3,94  | 0,63   | 0,42    |
| 4ST+ 08   | 12     | 1/2"   | 08   | 20,0                   | 0,787 | 22,2             | 0,874 | 420              | 6000  | 1680           | 24000 | 110         | 4,33  | 0,74   | 0,50    |
| 4ST+ 10   | 16     | 5/8"   | 10   | 24,4                   | 0,961 | 26,4             | 1,039 | 420              | 6000  | 1680           | 24000 | 140         | 5,51  | 1,00   | 0,67    |
| 4ST+ 12   | 19     | 3/4"   | 12   | 28,2                   | 1,110 | 30,1             | 1,185 | 420              | 6000  | 1680           | 24000 | 170         | 6,69  | 1,47   | 0,99    |
| 4ST+ 16   | 25     | 1"     | 16   | 34,6                   | 1,362 | 36,6             | 1,441 | 420              | 6000  | 1680           | 24000 | 220         | 8,66  | 1,95   | 1,31    |
| 4ST+ 20   | 31     | 1.1/4" | 20   | 41,9                   | 1,650 | 45,0             | 1,772 | 420              | 6000  | 1680           | 24000 | 380         | 14,96 | 2,49   | 1,67    |

# FlexIT H4\*

### FOUR WIRE SPIRAL HOSE

## EN 856 4SH



#### Construction

- 1 - Synthetic rubber tube;
- 2 - Four high tensile steel wire spirals;
- 3 - Synthetic rubber cover, MSHA flame retardant approved;

#### Application

High pressure hydraulic system with extreme high pressure peaks for use with hydraulic oils, both mineral and biological, polyglycol base oils, water-oil emulsions and water;

#### Temperature range

Hydraulic oils: -40°C to +100°C (-40°F to +212°F)  
occasional peaks up to +125°C (+250°F);  
Polyglycol base oils, water-oil emulsions and water: up to +85°C (+185°F);

| HOSE TYPE | Ø HOSE |        |      | REINFORCEMENT DIAMETER |       | OUTSIDE DIAMETER |       | WORKING PRESSURE |       | BURST PRESSURE |       | BEND RADIUS |       | WEIGHT |         |
|-----------|--------|--------|------|------------------------|-------|------------------|-------|------------------|-------|----------------|-------|-------------|-------|--------|---------|
|           | DN     | INCH   | SIZE | [mm]                   | [in]  | [mm]             | [in]  | [bar]            | [psi] | [bar]          | [psi] | [mm]        | [in]  | [kg/m] | [lb/ft] |
| H4-12     | 19     | 3/4"   | 12   | 28,4                   | 1,118 | 31,9             | 1,255 | 420              | 6000  | 1680           | 24000 | 280         | 11,02 | 1,45   | 0,97    |
| H4-16     | 25     | 1"     | 16   | 35,5                   | 1,398 | 38,5             | 1,515 | 380              | 5500  | 1520           | 22000 | 340         | 13,39 | 2,14   | 1,44    |
| H4-20     | 31     | 1.1/4" | 20   | 41,9                   | 1,650 | 45,9             | 1,807 | 350              | 5000  | 1400           | 20000 | 460         | 18,11 | 2,51   | 1,69    |
| H4-24     | 38     | 1.1/2" | 24   | 49,0                   | 1,929 | 53,5             | 2,106 | 300              | 4300  | 1200           | 17200 | 560         | 22,05 | 3,26   | 2,19    |
| H4-32     | 51     | 2"     | 32   | 63,2                   | 2,488 | 68,3             | 2,689 | 250              | 3600  | 1000           | 14400 | 700         | 27,56 | 4,90   | 3,29    |

# 4ST+



## EXCEEDS SAE 100 R15

### FOUR WIRE SPIRAL THIN COVER HOSE



#### Construction

- 1 - Synthetic rubber tube
- 2 - Four high tensile steel wire spirals
- 3 - Synthetic rubber cover Abrasion resistant Type, MSHA flame retardant approved

#### Application

High pressure hydraulic system with extreme high pressure peaks for use with hydraulic oils, both mineral and biological, polyglycol base oils, water-oil emulsions and water

#### Temperature range

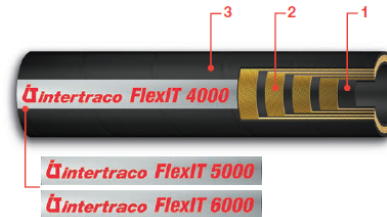
Hydraulic oils: -40°C to +121°C (-40°F to +250°F)  
occasional peaks up to +125°C (+257°F)  
Polyglycol base oils, water-oil emulsions and water: up to +85°C (+185°F)

| HOSE TYPE | Ø HOSE |        |      | REINFORCEMENT DIAMETER |       | OUTSIDE DIAMETER |       | WORKING PRESSURE |       | BURST PRESSURE |       | BEND RADIUS |       | WEIGHT |         |
|-----------|--------|--------|------|------------------------|-------|------------------|-------|------------------|-------|----------------|-------|-------------|-------|--------|---------|
|           | DN     | INCH   | SIZE | [mm]                   | [in]  | [mm]             | [in]  | [bar]            | [psi] | [bar]          | [psi] | [mm]        | [in]  | [kg/m] | [lb/ft] |
| 4ST+ 06   | 10     | 3/8"   | 06   | 17,2                   | 0,677 | 19,9             | 0,783 | 450              | 6500  | 1800           | 26000 | 100         | 3,94  | 0,63   | 0,42    |
| 4ST+ 08   | 12     | 1/2"   | 08   | 20,0                   | 0,787 | 22,2             | 0,874 | 420              | 6000  | 1680           | 24000 | 110         | 4,33  | 0,74   | 0,50    |
| 4ST+ 10   | 16     | 5/8"   | 10   | 24,4                   | 0,961 | 26,4             | 1,039 | 420              | 6000  | 1680           | 24000 | 140         | 5,51  | 1,00   | 0,67    |
| 4ST+ 12   | 19     | 3/4"   | 12   | 28,2                   | 1,110 | 30,1             | 1,185 | 420              | 6000  | 1680           | 24000 | 170         | 6,69  | 1,47   | 0,99    |
| 4ST+ 16   | 25     | 1"     | 16   | 34,6                   | 1,362 | 36,6             | 1,441 | 420              | 6000  | 1680           | 24000 | 220         | 8,66  | 1,95   | 1,31    |
| 4ST+ 20   | 31     | 1.1/4" | 20   | 41,9                   | 1,650 | 45,0             | 1,772 | 420              | 6000  | 1680           | 24000 | 380         | 14,96 | 2,49   | 1,67    |

# FlexIT SHP

### FOUR WIRE SPIRAL HOSE

## EN 856 4SP - EXCEEDS SAE 100 R12



#### Construction

- 1 - Synthetic rubber tube;
- 2 - Four high tensile steel wire spirals;
- 3 - Synthetic rubber cover, MSHA flame retardant approved;

#### Application

High pressure hydraulic system with extreme high pressure peaks for use with hydraulic oils, both mineral and biological, polyglycol base oils, water-oil emulsions and water;

#### Temperature range

Hydraulic oils: -40°C to +100°C (-40°F to +212°F)  
occasional peaks up to +125°C (+250°F);  
Polyglycol base oils, water-oil emulsions and water: up to +85°C (+185°F).

| HOSE TYPE  | Ø HOSE |      |      | REINFORCEMENT DIAMETER |       | OUTSIDE DIAMETER |       | WORKING PRESSURE |       | BURST PRESSURE |       | BEND RADIUS |       | WEIGHT |         |
|--|--------|------|------|------------------------|-------|------------------|-------|------------------|-------|----------------|-------|-------------|-------|--------|---------|
|  | DN     | INCH | SIZE | [mm]                   | [in]  | [mm]             | [in]  | [bar]            | [psi] | [bar]          | [psi] | [mm]        | [in]  | [kg/m] | [lb/ft] |
| <b>EN 856 4SP</b>                                  |        |      |      |                        |       |                  |       |                  |       |                |       |             |       |        |         |
| SHP-04   | 6      | 1/4" | 04   | 14,6                   | 0,575 | 17,0             | 0,669 | 450              | 6500  | 1800           | 26000 | 150         | 5,91  | 0,57   | 0,38    |
| <b>MEETS OR EXCEEDS EN 856 4SP AND SAE 100 R12</b> |        |      |      |                        |       |                  |       |                  |       |                |       |             |       |        |         |
| SHP-06 *   | 10     | 3/8" | 06   | 17,5                   | 0,689 | 20,1             | 0,791 | 450              | 6500  | 1800           | 26000 | 180         | 7,09  | 0,69   | 0,46    |
| SHP-08 *   | 12     | 1/2" | 08   | 20,6                   | 0,811 | 23,0             | 0,905 | 420              | 6000  | 1680           | 24000 | 230         | 9,06  | 0,85   | 0,57    |
| SHP-10 *   | 16     | 5/8" | 10   | 24,2                   | 0,952 | 26,5             | 1,043 | 350              | 5000  | 1400           | 20000 | 250         | 9,84  | 1,04   | 0,69    |
| SHP-12 *   | 19     | 3/4" | 12   | 28,2                   | 1,110 | 30,6             | 1,204 | 350              | 5000  | 1400           | 20000 | 300         | 11,61 | 1,32   | 0,88    |
| SHP-16 *   | 25     | 1"   | 16   | 35,1                   | 1,382 | 37,8             | 1,488 | 320              | 4600  | 1280           | 18400 | 340         | 13,38 | 2,06   | 1,38    |