



## Applications

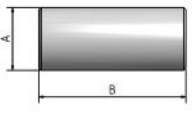
**Hydraulics:** Hydraulic tools (instrumentation packages for gauges, control of service equipment, hydraulic jacks, hydraulic tools)

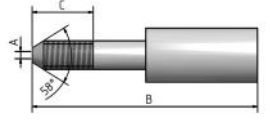
**Oil and Gas:** Grease injection, control of subsea hydraulic components

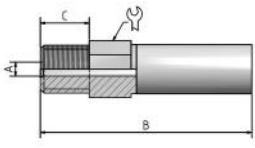
## Technical Information

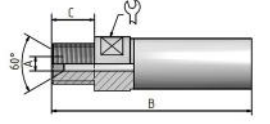
**Inner Core:** Polyamide (PA)  
**Pressure Support:** 2 layers of high-tensile steel wire  
 1 braided layer of steel wire  
**Outer Cover:** Polyurethane (TPU)  
**Color:** Black  
**Temperature:** -30°C to +60°C [-22°F to 140°F]

| Ø ID      | Ø OD      | Working Pressure |            | Burst Pressure | Bend Radius | Weight       | Insert ID |
|-----------|-----------|------------------|------------|----------------|-------------|--------------|-----------|
|           |           | --               | (SF 2.5:1) |                |             |              |           |
| 6,2 mm    | 12,9 mm   | --               | 1.120 bar  | 2.800 bar      | 95 mm       | 0,300 kg/m   | 4,0 mm    |
| 0,24 inch | 0,51 inch | --               | 16.240 psi | 40.600 psi     | 3,74 inch   | 0,201 lbs/ft | 0,16 inch |

| Part no.      | Thread | Material | Dimensions (mm) |      |   |   | Sleeve   |
|---------------|--------|----------|-----------------|------|---|---|--|
|               |        |          | A               | B    | C | ⌀ |  |
| <b>Sleeve</b> |        |          |                 |      |   |   |  |
| 10630101      | -      | Steel    | 14,1            | 39,7 | - | - |  |

| Part no.          | Thread         | Material   | Nut | Dimensions (mm) |    |    |   | Insert  |
|-------------------|----------------|------------|-----|-----------------|----|----|---|---|
|                   |                |            |     | A               | B  | C  | ⌀ |   |
| <b>HP fitting</b> |                |            |     |                 |    |    |   |   |
| 40620205A         | 9/16"x18UNF LH | AISI 316Ti | -   | 4               | 95 | 24 | - |  |

| <b>Male fitting</b> |             |            |     |   |    |    |    |   |
|---------------------|-------------|------------|-----|---|----|----|----|---|
| Part no.            | Thread      | Material   | Nut | A | B  | C  | ⌀  |   |
| 30620411A           | 1/8"x27NPTF | Steel      | -   | 4 | 58 | 10 | 12 |  |
| 30620401A           | 1/4"x18NPTF | Steel      | -   | 4 | 68 | 14 | 14 |   |
| 30620405A           | 1/4"x18NPTF | AISI 316Ti | -   | 4 | 68 | 14 | 14 |   |
| 30620451A           | 3/8"x18NPTF | Steel      | -   | 4 | 64 | 14 | 17 |   |
| 30620041A           | M10x1       | Steel      | -   | 4 | 65 | 12 | 12 |   |
| 30620311A           | G1/8"       | Steel      | -   | 4 | 59 | 10 | 9  |   |

| <b>Male fitting 60° internal cone</b> |        |          |     |   |      |    |    |   |
|---------------------------------------|--------|----------|-----|---|------|----|----|---|
| Part no.                              | Thread | Material | Nut | A | B    | C  | ⌀  |   |
| 30620341A                             | G1/4"  | Steel    | -   | 4 | 62,5 | 12 | 14 |  |
| 30620321A                             | G3/8"  | Steel    | -   | 4 | 60,5 | 12 | 17 |   |

| Part no.                               | Thread      | Material   | Nut                | Dimensions (mm) |      |    |    | Insert |
|--|-------------|------------|--------------------|-----------------|------|----|----|--------|
|  |             |            |                    | A               | B    | C  | ⌀  |        |
| <b>Male fitting 100° external cone</b> |             |            |                    |                 |      |    |    |        |
| 30620361A                              | G1/4"       | Steel      | -                  | 4               | 67   | 18 | 17 |        |
| <b>Male fitting for USIT® Ring</b>     |             |            |                    |                 |      |    |    |        |
| 30620391A                              | G1/4"       | Steel      | -                  | 4               | 61   | 11 | 22 |        |
| 30620351A                              | G3/8"       | Steel      | -                  | 4               | 61   | 11 | 24 |        |
| <b>Male fitting flat seal</b>          |             |            |                    |                 |      |    |    |        |
| 30620381A                              | G1/4"       | Steel      | -                  | 4               | 66   | 15 | 12 |        |
| <b>Male fitting DIN3852 T2 form A</b>  |             |            |                    |                 |      |    |    |        |
| 30620301A                              | G1/4"       | Steel      | -                  | 4               | 64   | 12 | 19 |        |
| <b>Female fitting NPT/NPTF</b>         |             |            |                    |                 |      |    |    |        |
| 30620441A                              | 1/4"x18NPTF | Steel      | -                  | 4               | 66,5 | 20 | 19 |        |
| <b>Female swivel 24°/60°</b>           |             |            |                    |                 |      |    |    |        |
| 20620301A                              | G1/4"       | Steel      | 50540301           | 4               | 55   | -  | 19 |        |
| 20620305A                              | G1/4"       | AISI 316Ti | 50540305           | 4               | 55   | -  | 19 |        |
| 20620101A                              | M14x1,5     | Steel      | 50540101           | 4               | 55   | -  | 19 |        |
| 20620141A                              | M16x1,5     | Steel      | 50620121           | 4               | 56   | -  | 19 |        |
| 20620145A                              | M16x1,5     | AISI 316Ti | 50620125           | 4               | 56   | -  | 19 |        |
| <b>Female swivel with O-Ring</b>       |             |            |                    |                 |      |    |    |        |
| 20620241A                              | M18x1,5     | Steel      | 50620201           | 4               | 65   | -  | 22 |        |
| 20620211A                              | M22x1,5     | Steel      | 51060201, 51060205 | 4               | 75   | -  | 30 |        |
| 20620042A                              | M24x1,5     | Steel      | 51321206           | 4               | 73   | -  | 32 |        |
| <b>Type M female swivel</b>            |             |            |                    |                 |      |    |    |        |
| 20620641A                              | 9/16"x18UNF | Steel      | 50540601, 50560601 | 4               | 57   | -  | 19 |        |
| 20620645A                              | 9/16"x18UNF | AISI 316Ti | 50540605, 50560605 | 4               | 57   | -  | 19 |        |

| Part no.                 | Thread      | Material   | Nut      | Dimensions (mm) |    |   |    | Insert |
|--------------------------|-------------|------------|----------|-----------------|----|---|----|--------|
|                          |             |            |          | A               | B  | C | ⌀  |        |
| <b>JIC female swivel</b> |             |            |          |                 |    |   |    |        |
| S20630615A               | 9/16"x18UNF | AISI 316Ti | S5063615 | 4               | 53 | - | 19 |        |

| Part no.          | Thread      | Material   | Relief bores | Dimensions (mm) |      |     |    | Swivel nut |
|-------------------|-------------|------------|--------------|-----------------|------|-----|----|------------|
|                   |             |            |              | A               | B    | C   | ⌀  |            |
| <b>Swivel nut</b> |             |            |              |                 |      |     |    |            |
| 50540601          | 9/16"x18UNF | Steel      | 1 radial     | 9,2             | 18   | 14  | 19 |            |
| 50540605          | 9/16"x18UNF | AISI 316Ti | 1 radial     | 9,2             | 18   | 14  | 19 |            |
| S5063615          | 9/16"x18UNF | AISI 316Ti | 1 radial     | 9,5             | 18   | 14  | 19 |            |
| 50540301          | G1/4"       | Steel      | 1 radial     | 9,2             | 16,5 | 8,5 | 19 |            |
| 50540305          | G1/4"       | AISI 316Ti | 1 radial     | 9,2             | 16,5 | 8,5 | 19 |            |
| 50540101          | M14x1,5     | Steel      | 1 radial     | 9,2             | 16,5 | 8,5 | 19 |            |
| 50620121          | M16x1,5     | Steel      | 1 radial     | 9,2             | 17,5 | 10  | 19 |            |
| 50620125          | M16x1,5     | AISI 316Ti | 1 radial     | 9,5             | 17,5 | 10  | 19 |            |
| 50620201          | M18x1,5     | Steel      | 1 radial     | 9,2             | 22   | 12  | 22 |            |
| 51060201          | M22x1,5     | Steel      | 2 axial      | 14,2            | 23   | 14  | 30 |            |
| 51060205          | M22x1,5     | AISI 316Ti | 2 axial      | 14,2            | 25   | 14  | 30 |            |
| 51321206          | M24x1,5     | Steel      | 2 axial      | 16,8            | 23   | 16  | 32 |            |

| Part no.                                | Mesh length (mm) | Overall length (mm) | Breaking strength (kN) | Suitable for SPIR STAR® hose outer diameter (mm) | Hose securing grip |
|---|------------------|---------------------|------------------------|--|--------------------|
| <b>Hose securing grip short version</b> |                  |                     |                        |  |                    |
| 9056400                                 | 600,00           | 740,00              | 10,20                  | 10-15  |                    |

Production related variations of the burst pressure of up to 5 % are possible. Other colors upon request.

The safety factors between the burst pressure and the working pressure as well as the test pressure depend on the operating conditions. For gaseous media the outer cover is to be pinpricked.

Regarding the safety factor for gaseous media please contact your local SPIR STAR® assembling center.

The indicated working pressure refers to the hose only. Depending on the used fitting the permitted working pressure of a hose assembly may be less.

\*) Blast-Pro® fittings may only be used for tube cleaning operations inside the tube. They have not been designed for the use outside of tubes.

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