



Applications

- Hydraulics:** Hydraulic tools (instrumentation packages for gauges, control of service equipment, hydraulic jacks, hydraulic tools)
- Oil and Gas:** Methanol service (oil rigs, distribution panels, umbilicals), jumper/ subsea well control, chemical injection, control of subsea hydraulic components, nitrogen service, Gaseous media handling



Technical Information

- Inner Core:** Polyvinylidenfluoride (PVDF)
- Pressure Support:** 4 layers of high-tensile steel wire
- Outer Cover:** Polyamide (PA)
- Color:** Dark green
- Temperature:** -20°C to +80°C [-4°F to 176°F]

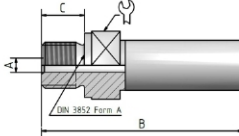
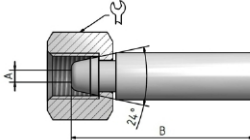
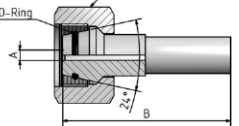
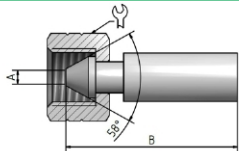
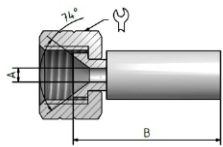
| Ø ID | Ø OD | Working Pressure | | Burst Pressure | Bend Radius | Weight | Insert ID |
|-----------|-----------|------------------|------------|----------------|-------------|--------------|-----------|
| | | (SF 3,8:1) | (SF 4,0:1) | | | | |
| 8,0 mm | 14,7 mm | 1.085 bar | 1.035 bar | 4.140 bar | 300 mm | 0,420 kg/m | 4,5 mm |
| 0,31 inch | 0,58 inch | 15.730 psi | 15.000 psi | 60.000 psi | 11,81 inch | 0,281 lbs/ft | 0,18 inch |

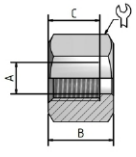
| Part no. | Thread | Material | Dimensions (mm) | | | | Sleeve |
|---------------|--------|------------|-----------------|----|---|---|--------|
| | | | A | B | C | Ø | |
| Sleeve | | | | | | | |
| 10840102 | - | Steel | 20,2 | 58 | - | - | |
| 10840105 | - | AISI 316Ti | 20,2 | 58 | - | - | |


| Part no. | Thread | Material | Nut | Dimensions (mm) | | | | Insert |
|-------------------|----------------|------------|-----|-----------------|-------|----|---|--------|
| | | | | A | B | C | Ø | |
| HP fitting | | | | | | | | |
| 40840205B | 9/16"x18UNF LH | AISI 316Ti | - | 4,5 | 108,5 | 24 | - | |

| Male fitting | | | | | | | |
|---------------------|-------------|----------|-----|-----|----|----|----|
| Part no. | Thread | Material | Nut | A | B | C | Ø |
| 30840411B | 1/4"x18NPTF | Steel | - | 4,5 | 84 | 14 | 14 |
| 30840401B | 3/8"x18NPTF | Steel | - | 4,5 | 82 | 14 | 17 |
| 30840341B | G1/4" | Steel | - | 4,5 | 82 | 14 | 14 |

| Male fitting flat seal | | | | | | | |
|-------------------------------|--------|----------|-----|-----|----|----|----|
| Part no. | Thread | Material | Nut | A | B | C | Ø |
| 30840311B | G1/4" | Steel | - | 4,5 | 83 | 15 | 14 |

| Part no. | Thread | Material | Nut | Dimensions (mm) | | | | Insert |
|---------------------------------------|------------|------------|--------------------|-----------------|------|----|----|---|
| | | | | A | B | C | Ø | |
| Male fitting DIN3852 T2 form A | | | | | | | | |
| 30840301B | G3/8" | Steel | - | 4,5 | 84,5 | 12 | 22 |  |
| Female swivel 24°/60° | | | | | | | | |
| 20840301B | G3/8" | Steel | 50860301 | 4,5 | 72 | - | 24 |  |
| 20840305B | G3/8" | AISI 316Ti | 50840305 | 4,5 | 74 | - | 24 | |
| Female swivel with O-Ring | | | | | | | | |
| 20840201B | M20x1,5 | Steel | 50860201 | 4,5 | 77 | - | 27 |  |
| 20840231B | M22x1,5 | Steel | 51060201, 51060205 | 4,5 | 79 | - | 30 | |
| 20840221B | M24x1,5 | Steel | 51321206, 51320205 | 4,5 | 85 | - | 32 | |
| Type M female swivel | | | | | | | | |
| 20840641B | 3/4"x16UNF | Steel | 50840601 | 4,5 | 73 | - | 24 |  |
| 20840645B | 3/4"x16UNF | AISI 316Ti | 50840605 | 4,5 | 73 | - | 24 | |
| JIC female swivel | | | | | | | | |
| 20840605B | 3/4"x16UNF | AISI 316Ti | 50840605 | 4,5 | 68 | - | 24 |  |

| Part no. | Thread | Material | Relief bores | Dimensions (mm) | | | | Swivel nut |
|-------------------|------------|------------|--------------|-----------------|------|------|----|---|
| | | | | A | B | C | Ø | |
| Swivel nut | | | | | | | |  |
| 50840601 | 3/4"x16UNF | Steel | 1 radial | 12,2 | 22,5 | 17,5 | 24 | |
| 50840605 | 3/4"x16UNF | AISI 316Ti | 1 radial | 12,2 | 22,5 | 17,5 | 24 | |
| 50860301 | G3/8" | Steel | 1 radial | 12,5 | 18,5 | 15,5 | 24 | |
| 50840305 | G3/8" | AISI 316Ti | 1 radial | 12,2 | 21,5 | 15,5 | 24 | |
| 50860201 | M20x1,5 | Steel | 1 radial | 12,2 | 22 | 12 | 27 | |
| 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 | |
| 51320205 | M24x1,5 | AISI 316Ti | 1 radial | 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 |
|----------|------------------|---------------------|------------------------|--|---|
| | | | | | |
| 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.

Maximum test pressure (1630 bar / 23630 psi).

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.

We reserve our rights for technical changes without notice. Subject to printing errors.