

Applications

- Waterblast:** Heat exchanger tube cleaning
- Hydraulics:** Bolt tensioning, pressure test equipment (valves, tooling and control panels), hydraulic tools (instrumentation packages for gauges, control of service equipment, hydraulic jacks, hydraulic tools)
- Oil and Gas:** Grease injection, chemical injection, control of subsea hydraulic components, nitrogen service, Gaseous media handling



Technical Information

- Inner Core:** Polyoxymethylene (POM)
- Pressure Support:** 4 layers of high-tensile steel wire
- Outer Cover:** Polyamide (PA)
- Color:** Grey
- Temperature:** -30°C to +70°C [-22°F to 158°F]

| Ø ID | Ø OD | Working Pressure -- (SF 2.5:1) | Burst Pressure | Bend Radius | Weight | Insert ID |
|-----------|-----------|--------------------------------------|----------------|-------------|--------------|-----------|
| 6,3 mm | 12,6 mm | -- | 1.500 bar | 180 mm | 0,295 kg/m | 3,5 mm |
| 0,25 inch | 0,50 inch | -- | 21.750 psi | 7,09 inch | 0,198 lbs/ft | 0,14 inch |

| Part no. | Thread | Material | Dimensions (mm) | | | | Sleeve |
|--------------------------|--------|------------|-----------------|----|---|---|--------|
| | | | A | B | C | ⌀ | |
| Sleeve | | | | | | | |
| 10640101 | - | Steel | 16,4 | 49 | - | - | |
| 10640105 | - | AISI 316Ti | 16,4 | 49 | - | - | |
| Blast-Pro® sleeve | | | | | | | |
| 10640232 | - | Steel | 14,5 | 26 | - | - | |

| Part no. | Thread | Material | Nut | Dimensions (mm) | | | | Insert |
|-------------------|---------------|------------|-----|-----------------|----|----|---|--------|
| | | | | A | B | C | ⌀ | |
| HP fitting | | | | | | | | |
| 40640205B | 3/8"x24UNF LH | AISI 316Ti | - | 3,5 | 90 | 20 | - | |

| Part no. | Thread | Material | Sleeve | Dimensions (mm) | | | | ⌀ | Blast-Pro® Insert* |
|---------------------------------------|---------------|-----------------|--------------------|-----------------|----|----|----|---|--------------------|
| | | | | A | B | C | | | |
| Blast-Pro® HP fitting | | | | | | | | | |
| 40640214Y | 3/8"x24UNF LH | Stainless steel | 10640232 | 4 | 52 | 21 | 12 | | |
| Blast-Pro® HP female | | | | | | | | | |
| 40640234Y | 3/8"x24UNF | Stainless steel | 10640232 | 4 | 50 | 15 | 12 | | |
| Insert | | | | | | | | | |
| Male fitting | | | | | | | | | |
| 30640401B | 1/4"x18NPTF | Steel | - | 3,5 | 70 | 14 | 14 | | |
| Male fitting 60° internal cone | | | | | | | | | |
| 30640301B | G1/4" | Steel | - | 3,5 | 67 | 12 | 14 | | |
| Male fitting flat seal | | | | | | | | | |
| 30640011B | M8x1.25 | Steel | - | 3,5 | 68 | 12 | 8 | | |
| Female swivel 24°/60° | | | | | | | | | |
| 20640301B | G1/4" | Steel | 50540301, 50540305 | 3,5 | 62 | - | 19 | | |
| Female swivel with O-Ring | | | | | | | | | |
| 20640241B | M18x1,5 | Steel | 50620201 | 3,5 | 72 | - | 22 | | |
| 20640202B | M24x1,5 | Steel | 51321206 | 3,5 | 81 | - | 32 | | |

| Part no. | Thread | Material | Nut | Dimensions (mm) | | | | Insert |
|-----------------------------|-------------|------------|----------|-----------------|----|---|----|--------|
| | | | | A | B | C | Ø | |
| Type M female swivel | | | | | | | | |
| 20640641B | 9/16"x18UNF | Steel | 50540601 | 3,5 | 63 | - | 19 | |
| 20640645B | 9/16"x18UNF | AISI 316Ti | 50540605 | 3,5 | 63 | - | 19 | |



| | | | | | | | | |
|--------------------------|-------------|------------|----------|-----|----|---|----|--|
| JIC female swivel | | | | | | | | |
| 20640655B | 9/16"x18UNF | AISI 316Ti | 50540605 | 3,5 | 58 | - | 19 | |

| Part no. | Thread | Material | Relief bores | Dimensions (mm) | | | | Swivel nut |
|-------------------|-------------|------------|--------------|-----------------|------|-----|----|------------|
| | | | | A | B | C | Ø | |
| Swivel nut | | | | | | | | |
| 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 | |
| 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 | |
| 50620201 | M18x1,5 | Steel | 1 radial | 9,2 | 22 | 12 | 22 | |
| 51321206 | M24x1,5 | Steel | 2 axial | 16,8 | 23 | 16 | 32 | |

| Part no. | Size (mm) | Material | Crimp ring | Hose protection |
|----------|----------------|----------|------------|-----------------|
| | | | | |
| 1.901822 | ID Ø18, OD Ø22 | PVC | 1002426 | |
| 1.902026 | ID Ø20, OD Ø26 | PVC | - | |

| Hose protection with spiral | | | | |
|------------------------------------|----------------|-----|---------|--|
| 1.912026 | ID Ø19, OD Ø26 | PVC | 1003035 | |

| Part no. | Material | Crimp ring | Dimensions (mm) | | Bend restrictor |
|-------------------------------|----------|------------|-----------------|--------|-----------------|
| | | | Ø | Length | |
| Rubber bend restrictor | | | | | |
| 1.9518600 | Rubber | 1003035 | 34 | 126 | |

| Part no. | Mesh length (mm) | Overall length (mm) | Breaking strength (kN) | Suitable for SPIR STAR® hose outer diameter (mm) | Hose securing grip |
|---|------------------|---------------------|------------------------|--|---|
| Hose securing grip short version | | | | | |
| 9056400 | 600,00 | 740,00 | 10,20 | 10-15 |  |
| Hose securing grip long version | | | | | |
| 905640L | 600,00 | 990,00 | 10,20 | 10-15 |  |

Accessories combinations

| Without hose protection | | | | |
|--|-----------------|-----------------|----------------|----------------|
| Description | Bend restrictor | Crimp ring | Securing grips | |
| Bend restrictor | 1.9518600 | 1003035 | - | |
| Securing grip | - | - | 9056400 | |
| Bend restrictor and securing grip | 1.9518600 | 1003035 | 905640L | |
| Hose protection without spiral | | | | |
| Description | Protection hose | Bend restrictor | Crimp ring | Securing grips |
| Protection hose | 1.901822 | - | 1002426 | - |
| with bend restrictor | 1.901822 | 1.9518600 | 1003035 | - |
| with securing grip | 1.902026 | - | - | 9056400 |
| with bend restrictor and securing grip | 1.902026 | 1.9518600 | 1003035 | 905640L |
| Hose protection with spiral | | | | |
| Description | Protection hose | Bend restrictor | Crimp ring | Securing grips |
| Protection hose | 1.912026 | - | 1003035 | - |
| with bend restrictor | 1.912026 | 1.9518600 | 1003035 | - |
| with securing grip | 1.912026 | - | - | 9056400 |
| with bend restrictor and securing grip | 1.912026 | 1.9518600 | 1003035 | 905640L |

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.

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