



## Applications

### Hydraulics:

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, control of subsea hydraulic components, nitrogen service, Gaseous media handling



## Technical Information

### Inner Core:

Polyamide (PA)

### Pressure Support:

2 open layers, 2 dense layers of high-tensile 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)				
12,8 mm	20,8 mm	--	1.040 bar	2.600 bar	150 mm	0,590 kg/m	8,5 mm
0,50 inch	0,82 inch	--	15.080 psi	37.700 psi	5,91 inch	0,395 lbs/ft	0,33 inch

Part no.	Thread	Material	Dimensions (mm)				Sleeve
			A	B	C	⚙	
<b>Sleeve</b>							
I1330191W	-	Steel	27,2	58	-	-	
I1330195W	-	AISI 316Ti	27,2	58	-	-	

Part no.	Thread	Material	Nut	Dimensions (mm)				Insert
				A	B	C	⚙	
<b>MP fitting</b>								
41320205A	9/16"x18UNF LH	AISI 316Ti	-	8,5	109	12,7	-	

<b>Male fitting</b>								
31320401A	1/2"x14NPTF	Steel	-	8,5	90	18	22	
31320405A	1/2"x14NPTF	AISI 316Ti	-	8,5	90	18	22	


<b>Female swivel 24°/60°</b>								
21320311A	G1/2"	Steel	51060311	8,5	73	-	27	
21320315A	G1/2"	AISI 316Ti	51060315, 51060311	8,5	73	-	27	

Part no.	Thread	Material	Nut	Dimensions (mm)				Insert
				A	B	C	⌀	
<b>Female swivel with O-Ring</b>								
21320101A	M22x1,5	Steel	51360221	8,5	85	-	30	
21320241A	M24x1,5	Steel	51321206	8,5	80	-	32	
21320245A	M24x1,5	AISI 316Ti	51320205, 51360206	8,5	80	-	32	
<b>Type M female swivel</b>								
21320641A	1"x12UNF	Steel	51360641	8,5	74	-	32	
21320645A	1"x12UNF	AISI 316Ti	51360645, 51360643	8,5	74	-	32	

Part no.	Thread	Material	Relief bores	Dimensions (mm)				Swivel nut
				A	B	C	⌀	
<b>Swivel nut</b>								
51360641	1"x12UNF	Steel	1 radial	16,8	28	22	32	
51360643	1"x12UNF	Stainless steel	1 radial	16,8	28	22	32	
51360645	1"x12UNF	AISI 316Ti	1 radial	16,8	28	22	32	
51060311	G1/2"	Steel	1 radial	16,7	23,5	13,5	27	
51060315	G1/2"	AISI 316Ti	1 radial	16,7	23,5	13,5	27	
51360221	M22x1,5	Steel	1 radial	16,8	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.	Size (mm)	Material	Crimp ring	Hose protection
1.903037	ID Ø30, OD Ø39	PVC	1003941	
1.903542	ID Ø35, OD Ø42	PVC	-	
<b>Hose protection with spiral</b>				
1.913038	ID Ø30, OD Ø38	PVC	1004145	
1.913240	ID Ø32, OD Ø40	PVC	-	



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>					
9106400	600,00	800,00	20,40	20-25	

<b>Accessories combinations</b>				
<b>Without hose protection</b>				
Description		Bend restrictor	Crimp ring	Securing grips
Securing grip		-	-	9106400
<b>Hose protection without spiral</b>				
Description	Protection hose	Bend restrictor	Crimp ring	Securing grips
Protection hose	I.903037	-	1003941	-
with securing grip	I.903542	-	-	9106400
<b>Hose protection with spiral</b>				
Description	Protection hose	Bend restrictor	Crimp ring	Securing grips
Protection hose	I.913038	-	1004145	-
with securing grip	I.913240	-	-	9106400

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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