



## Applications

- Waterblast:** Heat exchanger tube cleaning, surface preparation (concrete removal, surface cleaning of buildings, paint removal), tank and vessel cleaning
- Hydraulics:** Pressure test equipment (valves, tooling and control panels)
- Oil and Gas:** Grease injection, chemical injection, 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 +60°C [-22°F to 140°F]

Ø ID	Ø OD	Working Pressure -- (SF 2,5:1)	Burst Pressure	Bend Radius	Weight	Insert ID
8,0 mm	14,6 mm	--	1.500 bar	200 mm	0,390 kg/m	4,5 mm
0,31 inch	0,57 inch	--	21.750 psi	7,87 inch	0,261 lbs/ft	0,18 inch

Part no.	Thread	Material	Dimensions (mm)				Sleeve
			A	B	C	⌀	
<b>Sleeve</b>							
10840102	-	Steel	20,2	58	-	-	
10840105	-	AISI 316Ti	20,2	58	-	-	
<b>Blast-Pro® sleeve</b>							
10840142	-	Steel	17,1	29	-	-	

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

Part no.	Thread	Material	Sleeve	Dimensions (mm)				Blast-Pro® Insert*
				A	B	C	⌀	
<b>Blast-Pro® MP male</b>								
40840244Y	9/16"x18UNF LH	Stainless steel	10840142	5	75	25	15	

Part no.	Thread	Material	Nut	Dimensions (mm)				Insert
				A	B	C	⌀	
<b>Male fitting</b>								
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	
<b>Male fitting flat seal</b>								
30840311B	G1/4"	Steel	-	4,5	83	15	14	
<b>Male fitting DIN3852 T2 form A</b>								
30840301B	G3/8"	Steel	-	4,5	84,5	12	22	
<b>Female swivel 24°/60°</b>								
20840301B	G3/8"	Steel	50860301	4,5	72	-	24	
20840305B	G3/8"	AISI 316Ti	50840305	4,5	74	-	24	
<b>Female swivel with O-Ring</b>								
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	
<b>Type M female swivel</b>								
20840641B	3/4"x16UNF	Steel	50840601	4,5	73	-	24	
20840645B	3/4"x16UNF	AISI 316Ti	50840605	4,5	73	-	24	
<b>JIC female swivel</b>								
20840605B	3/4"x16UNF	AISI 316Ti	50840605	4,5	68	-	24	

Part no.	Thread	Material	Relief bores	Dimensions (mm)				Swivel nut
				A	B	C	⌀	
<b>Swivel nut</b>								
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	

Part no.	Thread	Material	Relief bores	Dimensions (mm)				Swivel nut
				A	B	C	Ø	
<b>Swivel nut</b>								
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.	Size (mm)	Material	Crimp ring	Dimensions (mm)		Hose protection
				Ø	Length	
<b>Hose protection without spiral</b>						
1.902228	ID Ø22, OD Ø28	PVC	1002830			
<b>Hose protection with spiral</b>						
1.912229	ID Ø22, OD Ø35	PVC	1003035			

Part no.	Material	Crimp ring	Dimensions (mm)		Bend restrictor
			Ø	Length	
<b>Rubber bend restrictor</b>					
1.9518100	Rubber	1003640	39	130	

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	
<b>Hose securing grip long version</b>					
905640L	600,00	990,00	10,20	10-15	



## Accessories combinations

### Without hose protection

Description	Bend restrictor	Crimp ring	Securing grips
Bend restrictor	1.9518100	1003640	-
Securing grip	-	-	9056400
Bend restrictor and securing grip	1.9518100	1003640	905640L

### Hose protection without spiral

Description	Protection hose	Bend restrictor	Crimp ring	Securing grips
Protection hose	1.902228	-	1002830	-
with bend restrictor	1.902228	1.9518100	1003640	-
with securing grip	1.902228	-	-	9056400
with bend restrictor and securing grip	1.902228	1.9518100	1003640	905640L

### Hose protection with spiral

Description	Protection hose	Bend restrictor	Crimp ring	Securing grips
Protection hose	1.912229	-	1003035	-
with bend restrictor	1.912229	1.9518100	1003640	-
with securing grip	1.912229	-	-	9056400
with bend restrictor and securing grip	1.912229	1.9518100	1003640	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.

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