

Certificate

Standard **ISO 9001:2015**

Certificate Registr. No. **01 100 5113**

Certificate Holder:



SPIR STAR AG
Auf der Rut 3-7
64668 Rimbach
Germany

Scope:

Development and production of high-pressure hoses and fittings. Sales of products and services in the high-pressure sector

Proof has been furnished by means of an audit that the requirements of ISO 9001:2015 are met.

Validity:

The certificate is valid from 2021-05-01 until 2024-04-30.
First certification 1995

2021-03-29

A handwritten signature in blue ink, appearing to read 'K. H. ...', positioned above a horizontal line.

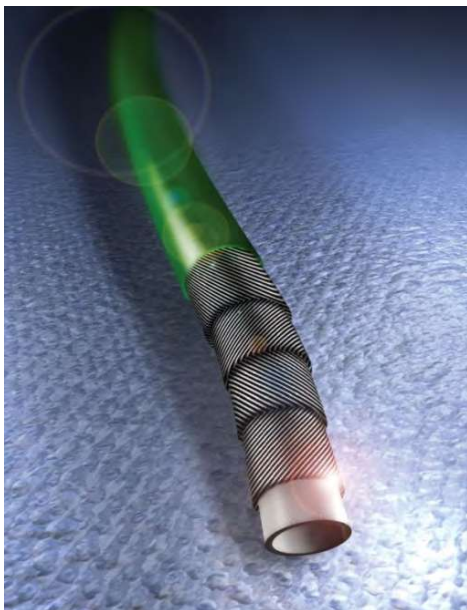
TÜV Rheinland Cert GmbH
Am Grauen Stein · 51105 Köln

Number of spiralized layers

Type **6/2WHT**

Series Description

Hose ID in mm



Hose Series	
DCI	Double Cover
H	Reinforced version
HT	For very high temperatures Very high chemical resistant PVDF inner core, PVDF outer cover
HW	Hot Water: for very high temperatures
K	Braided layer
L	Extremely flexible
M	For methanol service PA II inner core, PA outer cover
OK	Braided layer outer cover
PPA	For high temperatures Very high chemical resistant PVDF inner core, PA outer cover
R	Reinforced outer cover
W	2 wide layers of spiralized wire
KF	One braided layer

Hose Types



Type	Hose				Pressure Rating				Bend Radius		Weight		Insert ID		Sleeve OD		Application
	ID		OD		Working		Burst		[mm]	[in]	[kg/m]	[lbs/ft]	[mm]	[in]	[mm]	[in]	
	[mm]	[in]	[mm]	[in]	[bar]	[psi]	[bar]	[psi]									
ID6	<i>Heat-resisting up to 70° C (158° F)</i>																
6/2	6,3	0,25	11,5	0,45	1.000	14.500	2.500	36.250	110	4,33	0,175	0,117	4,0	0,16	13,9	0,54	Waterblast, Hydraulic
6/2- 1100	6,3	0,25	11,6	0,46	1.100	15.950	2.750	39.875	110	4,33	0,175	0,117	4,0	0,16	13,9	0,54	Waterblast, Hydraulic
6/2OK	6,2	0,24	13,1	0,52	1.000	14.500	2.500	36.250	110	4,33	0,306	0,205	4,0	0,16	15,0	0,59	Waterblast, Hydraulic
6/2K	6,2	0,24	12,9	0,51	1.120	16.240	2.800	40.600	95	3,74	0,300	0,201	4,0	0,16	16,2	0,63	Hydraulic, Oil and Gas
6/2W	6,0	0,24	12,0	0,47	1.280	18.560	3.200	46.400	95	3,74	0,230	0,154	4,0	0,16	15,4	0,60	Oil & Gas, Waterblast, Hydraulic
6/2W Twin	6,0	0,24	12,0	0,47	1.280	18.560	3.200	46.400	95	3,74	0,460	0,310	4,0	0,16	15,4	0,60	Oil & Gas, Hydraulic
6/2WL	5,9	0,23	12,0	0,47	1.200	17.400	3.000	43.500	80	3,15	0,237	0,159	4,0	0,16	15,5	0,61	Hydraulic
6/2WL Twin	5,9	0,23	12,0	0,47	1.200	17.400	3.000	43.500	80	3,15	0,474	0,318	4,0	0,16	15,5	0,61	Hydraulic
6/3	6,1	0,24	12,3	0,48	1.040	15.080	2.600	37.700	110	4,33	0,280	0,188	4,0	0,16	14,1	0,55	Waterblast, Hydraulic
6/4	6,3	0,25	12,6	0,50	1.500	21.750	3.800	55.100	180	7,09	0,295	0,198	3,5	0,14	16,4	0,64	Oil & Gas, Waterblast, Hydraulic
6/4- 1650	6,3	0,25	12,6	0,50	1.650	23.925	4.125	59.812	180	7,09	0,295	0,198	3,5	0,14	16,4	0,64	Oil & Gas, Waterblast, Hydraulic
6/6H	5,9	0,23	16,4	0,65	2.800	40.600	7.000	101.500	250	9,84	0,750	0,503	3,0	0,12	21,4	0,84	Waterblast, Hydraulic
6mmUHP	5,8	0,23	18,6	0,73	3.200	46.400	8.000	116.000	280	11,02	1,060	0,710	3,0	0,12	23,7	0,93	Waterblast, Hydraulic

Hose Type 6/2

62070



DuraLife Flex ®

ID6 - Series: A and Q

Applications

- Waterblast:** Heat exchanger tube cleaning
- Hydraulics:** Pressure test equipment (valves, tooling and control panels), hydraulic tools (instrumentation packages for gauges, control of service equipment, hydraulic jacks, hydraulic tools)



Technical Information

- Inner Core:** Polyoxymethylene (POM)
- Pressure Support:** 2 layers of high-tensile steel wire
- Outer Cover:** Polyamide (PA)
- Color:** Green
- 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	11,5 mm	--	1.000 bar	110 mm	0,175 kg/m	4,0 mm
0,25 inch	0,45 inch	--	14.500 psi	4,33 inch	0,117 lbs/ft	0,16 inch

Part no.	Thread	Material	Dimensions (mm)				Sleeve
			A	B	C	⌀	
Sleeve							
10620101	-	Steel	13,9	39,6	-	-	
10620105	-	AISI 316	13,9	42	-	-	

Part no.	Thread	Material	Hose part	Dimensions (mm)				OnePiece Fittings® WS
				A	B	C	⌀	
OnePiece Fittings® with wrench size								
30620461Q	1/4"x18NPTF	Steel	30620462/1Q	13,5	43	14	12	
30620361Q	G1/4"	Steel	30620462/1Q	13,5	43	14	12	

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

Part no.	Thread	Material	Nut	Dimensions (mm)				Insert
				A	B	C		
Male fitting								
3062041IA	1/8"x27NPTF	Steel	-	4	58	10	12	
3062040IA	1/4"x18NPTF	Steel	-	4	68	14	14	
30620405A	1/4"x18NPTF	AISI 316	-	4	68	14	14	
3062045IA	3/8"x18NPTF	Steel	-	4	64	14	17	
3062004IA	M10x1	Steel	-	4	65	12	12	
3062031IA	G1/8"	Steel	-	4	59	10	9	
Male fitting 60° internal cone								
3062034IA	G1/4"	Steel	-	4	62,5	12	14	
3062032IA	G3/8"	Steel	-	4	60,5	12	17	
Male fitting 100° external cone								
3062036IA	G1/4"	Steel	-	4	67	18	17	
Male fitting for USIT® Ring								
3062039IA	G1/4"	Steel	-	4,0	61	11	22	
3062035IA	G3/8"	Steel	-	4	61	11	24	
Male fitting flat seal								
3062038IA	G1/4"	Steel	-	4	66	15	12	
Male fitting DIN3852 T2 form A								
3062030IA	G1/4"	Steel	-	4	64	12	19	
Female fitting NPT/NPTF								
3062044IA	1/4"x18NPTF	Steel	-	4	66,5	20	19	
Universal female swivel 24°/60°								
2062030IA	G1/4"	Steel	50540301	4	55	-	19	
20620305A	G1/4"	AISI 316	50540305	4	55	-	19	

Part no.	Thread	Material	Nut	Dimensions (mm)				Insert
				A	B	C	⌀	
Universal female swivel 24°/60° light								
20620101A	M14x1,5	Steel	50540101	4	55	-	19	
Universal female swivel 24°/60° heavy								
20620141A	M16x1,5	Steel	50620121	4	56	-	19	
20620145A	M16x1,5	AISI 316	50620125	4	56	-	19	
Female swivel with O-Ring								
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	
Type M female swivel								
20620641A	9/16"x18UNF	Steel	50540601	4	57	-	19	
20620645A	9/16"x18UNF	AISI 316	50540605	4	57	-	19	
JIC female swivel								
S20630615A	9/16"x18UNF	AISI 316	S5063615	4	53	-	19	

Part no.	Thread	Material	Relief bores	Dimensions (mm)				Swivel nut
				A	B	C	⌀	
Swivel nut								
50540601	9/16"x18UNF	Steel	1 radial	9,2	18	14	19	
50540605	9/16"x18UNF	AISI 316	1 radial	9,2	18	14	19	
S5063615	9/16"x18UNF	AISI 316	1 radial	9,5	18	14	19	
50540301	G1/4"	Steel	1 radial	9,2	16,5	8,5	19	
50540305	G1/4"	AISI 316	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 316	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 316	2 axial	14,2	25	14	30	
51321206	M24x1,5	Steel	2 axial	16,8	23	16	32	

Part no.	Thread	Material	Dimensions (mm)			Tube cleaning accessories		
			A	B	C			
Sotp sleeve								
I.84106201A	-	Steel	-	13,9	42	-	-	
Stop sleeve								
I.84306201Q	-	Steel	-	13,5	25	-	-	
Marking ring								
I.851316.5	-	AISI 316	-	14,5	10	-	-	

Part no.	Size (mm)	Material	Crimp ring	Hose protection
Hose protection without spiral				
I.901418	ID Ø14, OD Ø18	PVC	I001921	
I.901822	ID Ø18, OD Ø22	PVC	-	

Part no.	Material	Crimp ring	Dimensions (mm)		Bend restrictor
			Ø	Length	
Rubber bend restrictor					
I.9518600	Rubber	I003035	34	126	

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	
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	1.901418	-	1001921	-
with bend restrictor	1.901418	1.9518600	1003035	-
with securing grip	1.901822	-	-	9056400
with bend restrictor and securing grip	1.901822	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.

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Hose Type 6/2-1100

62070.1100



DuraLife Flex ®

ID6 - Series: A and Q

Applications

- Waterblast:** Heat exchanger tube cleaning
- Hydraulics:** Pressure test equipment (valves, tooling and control panels), hydraulic tools (instrumentation packages for gauges, control of service equipment, hydraulic jacks, hydraulic tools)



Technical Information

- Inner Core:** Polyoxymethylene (POM)
- Pressure Support:** 2 layers of high-tensile steel wire
- Outer Cover:** Polyamide (PA)
- Color:** Green
- 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	11,6 mm	--	1.100 bar	110 mm	0,175 kg/m	4,0 mm
0,25 inch	0,46 inch	--	15.950 psi	4,33 inch	0,117 lbs/ft	0,16 inch

Part no.	Thread	Material	Dimensions (mm)				Sleeve
			A	B	C	Ø	
Sleeve							
10620101	-	Steel	13,9	39,6	-	-	
10620105	-	AISI 316	13,9	42	-	-	

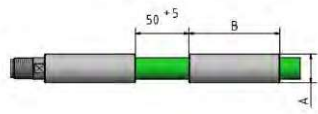
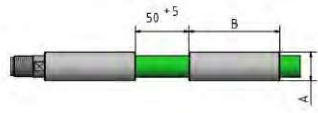
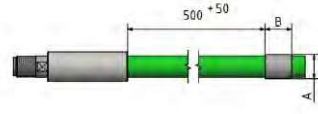
Part no.	Thread	Material	Hose part	Dimensions (mm)				OnePiece Fittings® WS
				A	B	C	Ø	
OnePiece Fittings® with wrench size								
30620461Q	1/4"x18NPTF	Steel	30620462/1Q	13,5	43	14	12	
30620361Q	G1/4"	Steel	30620462/1Q	13,5	43	14	12	


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


Part no.	Thread	Material	Nut	Dimensions (mm)				Insert
				A	B	C	⌀	
Male fitting								
30620411A	1/8"x27NPTF	Steel	-	4	58	10	12	
30620401A	1/4"x18NPTF	Steel	-	4	68	14	14	
30620405A	1/4"x18NPTF	AISI 316	-	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	
Male fitting 60° internal cone								
30620341A	G1/4"	Steel	-	4	62,5	12	14	
30620321A	G3/8"	Steel	-	4	60,5	12	17	
Male fitting 100° external cone								
30620361A	G1/4"	Steel	-	4	67	18	17	
Male fitting for USIT® Ring								
30620391A	G1/4"	Steel	-	4,0	61	11	22	
30620351A	G3/8"	Steel	-	4	61	11	24	
Male fitting flat seal								
30620381A	G1/4"	Steel	-	4	66	15	12	
Male fitting DIN3852 T2 form A								
30620301A	G1/4"	Steel	-	4	64	12	19	
Female fitting NPT/NPTF								
30620441A	1/4"x18NPTF	Steel	-	4	66,5	20	19	
Universal female swivel 24°/60°								
20620301A	G1/4"	Steel	50540301	4	55	-	19	
20620305A	G1/4"	AISI 316	50540305	4	55	-	19	



Part no.	Thread	Material	Nut	Dimensions (mm)				Insert
				A	B	C	⌀	
Universal female swivel 24°/60° light								
20620101A	M14x1,5	Steel	50540101	4	55	-	19	
Universal female swivel 24°/60° heavy								
20620141A	M16x1,5	Steel	50620121	4	56	-	19	
20620145A	M16x1,5	AISI 316	50620125	4	56	-	19	
Female swivel with O-Ring								
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	
Type M female swivel								
20620641A	9/16"x18UNF	Steel	50540601	4	57	-	19	
20620645A	9/16"x18UNF	AISI 316	50540605	4	57	-	19	
JIC female swivel								
S20630615A	9/16"x18UNF	AISI 316	S5063615	4	53	-	19	

Part no.	Thread	Material	Relief bores	Dimensions (mm)				Swivel nut
				A	B	C	⌀	
Swivel nut								
50540601	9/16"x18UNF	Steel	1 radial	9,2	18	14	19	
50540605	9/16"x18UNF	AISI 316	1 radial	9,2	18	14	19	
S5063615	9/16"x18UNF	AISI 316	1 radial	9,5	18	14	19	
50540301	G1/4"	Steel	1 radial	9,2	16,5	8,5	19	
50540305	G1/4"	AISI 316	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 316	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 316	2 axial	14,2	25	14	30	
51321206	M24x1,5	Steel	2 axial	16,8	23	16	32	

Part no.	Thread	Material	Dimensions (mm)			Tube cleaning accessories	
			A	B	C		
Sotp sleeve							
I.84106201A	-	Steel	-	13,9	42	- -	
Stop sleeve							
I.84306201Q	-	Steel	-	13,5	25	- -	
Marking ring							
I.851316.5	-	AISI 316	-	14,6	10	- -	

Part no.	Size (mm)	Material	Crimp ring	Hose protection
I.901418	ID Ø14, OD Ø18	PVC	I001921	
I.901822	ID Ø18, OD Ø22	PVC	-	

Part no.	Material	Crimp ring	Dimensions (mm)		Bend restrictor
			Ø	Length	
Rubber bend restrictor					
I.9518600	Rubber	I003035	34	126	

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	
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	1.901418	-	1001921	-
with bend restrictor	1.901418	1.9518600	1003035	-
with securing grip	1.901822	-	-	9056400
with bend restrictor and securing grip	1.901822	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.

Applications

- Waterblast:** Heat exchanger tube cleaning
- Hydraulics:** Pressure test equipment (valves, tooling and control panels), hydraulic tools (instrumentation packages for gauges, control of service equipment, hydraulic jacks, hydraulic tools)



Technical Information

- Inner Core:** Polyoxymethylene (POM)
- Pressure Support:** 2 layers of high-tensile steel wire
- Outer Cover:** Polyamide (PA) in green
- Color:** 1 braided layer of stainless steel wire
- 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
6,2 mm	13,1 mm	--	1.000 bar	110 mm	0,306 kg/m	4,0 mm
0,24 inch	0,52 inch	--	14.500 psi	4,33 inch	0,205 lbs/ft	0,16 inch

Part no.	Thread	Material	Hose part	Dimensions (mm)			OnePiece Fittings® WS
				A	B	C	
OnePiece Fittings® with wrench size							
30630451KQ	1/4"x18NPTF	Steel	30620462/IQ	15	43	14	12

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	

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.

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Applications

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

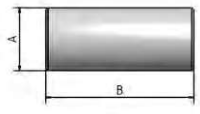
Oil and Gas: Grease injection, control of subsea hydraulic components

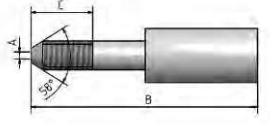


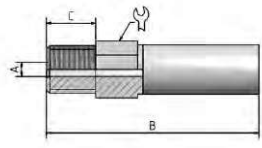
Technical Information

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	⌀	
Sleeve							
10630101	-	Steel	14,1	39,7	-	-	

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

Male fitting								
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 316	-	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	

Male fitting 60° internal cone								
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	⌀	
Male fitting 100° external cone								
30620361A	G1/4"	Steel	-	4	67	18	17	
Male fitting for USIT® Ring								
30620391A	G1/4"	Steel	-	4,0	61	11	22	
30620351A	G3/8"	Steel	-	4	61	11	24	
Male fitting flat seal								
30620381A	G1/4"	Steel	-	4	66	15	12	
Male fitting DIN3852 T2 form A								
30620301A	G1/4"	Steel	-	4	64	12	19	
Female fitting NPT/NPTF								
30620441A	1/4"x18NPTF	Steel	-	4	66,5	20	19	
Universal female swivel 24°/60°								
20620301A	G1/4"	Steel	50540301	4	55	-	19	
20620305A	G1/4"	AISI 316	50540305	4	55	-	19	
Universal female swivel 24°/60° light								
20620101A	M14x1,5	Steel	50540101	4	55	-	19	
Universal female swivel 24°/60° heavy								
20620141A	M16x1,5	Steel	50620121	4	56	-	19	
20620145A	M16x1,5	AISI 316	50620125	4	56	-	19	

Part no.	Thread	Material	Nut	Dimensions (mm)				Insert
				A	B	C	Ø	
Female swivel with O-Ring								
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	

Type M female swivel								
20620641A	9/16"x18UNF	Steel	50540601	4	57	-	19	
20620645A	9/16"x18UNF	AISI 316	50540605	4	57	-	19	

JIC female swivel								
S20630615A	9/16"x18UNF	AISI 316	S5063615	4	53	-	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 316	1 radial	9,2	18	14	19	
S5063615	9/16"x18UNF	AISI 316	1 radial	9,5	18	14	19	
50540301	G1/4"	Steel	1 radial	9,2	16,5	8,5	19	
50540305	G1/4"	AISI 316	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 316	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 316	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
Hose securing grip short version					
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.
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Applications

- Waterblast:** Heat exchanger tube cleaning
- 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



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 -- (SF 2.5:1)	Burst Pressure	Bend Radius	Weight	Insert ID
6,0 mm	12,0 mm	--	1.280 bar	95 mm	0,230 kg/m	4,0 mm
0,24 inch	0,47 inch	--	18.560 psi	3,74 inch	0,154 lbs/ft	0,16 inch

Part no.	Thread	Material	Dimensions (mm)				Sleeve
			A	B	C	⚙	
Sleeve							
I063019IW	-	Steel	15,4	41,3	-	-	
I0630195W	-	AISI 316	15,4	40,5	-	-	

Part no.	Thread	Material	Nut	Dimensions (mm)				Insert
				A	B	C	⚙	
HP fitting								
40620205A	9/16"x18UNF LH	AISI 316	-	4	95	24	-	
Male fitting								
30620411A	1/8"x27NPTF	Steel	-	4	58	10	12	
30620401A	1/4"x18NPTF	Steel	-	4	68	14	14	
30620405A	1/4"x18NPTF	AISI 316	-	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	
Male fitting 60° internal cone								
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	⌀	
Male fitting 100° external cone								
30620361A	G1/4"	Steel	-	4	67	18	17	
Male fitting for USIT® Ring								
30620391A	G1/4"	Steel	-	4,0	61	11	22	
30620351A	G3/8"	Steel	-	4	61	11	24	
Male fitting flat seal								
30620381A	G1/4"	Steel	-	4	66	15	12	
Male fitting DIN3852 T2 form A								
30620301A	G1/4"	Steel	-	4	64	12	19	
Female fitting NPT/NPTF								
30620441A	1/4"x18NPTF	Steel	-	4	66,5	20	19	
Universal female swivel 24°/60°								
20620301A	G1/4"	Steel	50540301	4	55	-	19	
20620305A	G1/4"	AISI 316	50540305	4	55	-	19	
Universal female swivel 24°/60° light								
20620101A	M14x1,5	Steel	50540101	4	55	-	19	
Universal female swivel 24°/60° heavy								
20620141A	M16x1,5	Steel	50620121	4	56	-	19	
20620145A	M16x1,5	AISI 316	50620125	4	56	-	19	

Part no.	Thread	Material	Nut	Dimensions (mm)				Insert
				A	B	C	Ø	
Female swivel with O-Ring								
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	

Type M female swivel								
20620641A	9/16"x18UNF	Steel	50540601	4	57	-	19	
20620645A	9/16"x18UNF	AISI 316	50540605	4	57	-	19	

JIC female swivel								
S20630615A	9/16"x18UNF	AISI 316	S5063615	4	53	-	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 316	1 radial	9,2	18	14	19	
S5063615	9/16"x18UNF	AISI 316	1 radial	9,5	18	14	19	
50540301	G1/4"	Steel	1 radial	9,2	16,5	8,5	19	
50540305	G1/4"	AISI 316	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 316	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 316	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
Hose securing grip short version					
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.
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Hose Type 6/2W Twin

62WD2223

SPIR STAR®

ID6 - Series: A

Applications

Hydraulics: Torque wrenching

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 and red
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
6,0 mm	12,0 mm	--	1.280 bar	95 mm	0,460 kg/m	4,0 mm
0,24 inch	0,47 inch	--	18.560 psi	3,74 inch	0,310 lbs/ft	0,16 inch

Part no.	Thread	Material	Dimensions (mm)				Sleeve
			A	B	C	⌀	
Sleeve							
I0630191W	-	Steel	15,4	41,3	-	-	
I0630195W	-	AISI 316	15,4	40,5	-	-	

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

Male fitting								
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 316	-	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	

Male fitting 60° internal cone								
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	

Male fitting 100° external cone								
Part no.	Thread	Material	Nut	A	B	C	⌀	
30620361A	G1/4"	Steel	-	4	67	18	17	

Part no.	Thread	Material	Nut	Dimensions (mm)				Insert
				A	B	C	⌀	
Male fitting for USIT® Ring								
30620391A	G1/4"	Steel	-	4,0	61	11	22	
30620351A	G3/8"	Steel	-	4	61	11	24	
Male fitting flat seal								
30620381A	G1/4"	Steel	-	4	66	15	12	
Male fitting DIN3852 T2 form A								
30620301A	G1/4"	Steel	-	4	64	12	19	
Female fitting NPT/NPTF								
30620441A	1/4"x18NPTF	Steel	-	4	66,5	20	19	
Universal female swivel 24°/60°								
20620301A	G1/4"	Steel	50540301	4	55	-	19	
20620305A	G1/4"	AISI 316	50540305	4	55	-	19	
Universal female swivel 24°/60° light								
20620101A	M14x1,5	Steel	50540101	4	55	-	19	
Universal female swivel 24°/60° heavy								
20620141A	M16x1,5	Steel	50620121	4	56	-	19	
20620145A	M16x1,5	AISI 316	50620125	4	56	-	19	
Female swivel with O-Ring								
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	

Part no.	Thread	Material	Nut	Dimensions (mm)				Insert
				A	B	C	⌀	
Type M female swivel								
20620641A	9/16"x18UNF	Steel	50540601	4	57	-	19	
20620645A	9/16"x18UNF	AISI 316	50540605	4	57	-	19	
JIC female swivel								
S20630615A	9/16"x18UNF	AISI 316	S5063615	4	53	-	19	

Part no.	Thread	Material	Relief bores	Dimensions (mm)				Swivel nut
				A	B	C	⌀	
Swivel nut								
50540601	9/16"x18UNF	Steel	1 radial	9,2	18	14	19	
50540605	9/16"x18UNF	AISI 316	1 radial	9,2	18	14	19	
S5063615	9/16"x18UNF	AISI 316	1 radial	9,5	18	14	19	
50540301	G1/4"	Steel	1 radial	9,2	16,5	8,5	19	
50540305	G1/4"	AISI 316	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 316	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 316	2 axial	14,2	25	14	30	
51321206	M24x1,5	Steel	2 axial	16,8	23	16	32	

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.

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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



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 -- (SF 2,5:1)	Burst Pressure	Bend Radius	Weight	Insert ID
5,9 mm	12,0 mm	--	1.200 bar	80 mm	0,237 kg/m	4,0 mm
0,23 inch	0,47 inch	--	17.400 psi	3,15 inch	0,159 lbs/ft	0,16 inch

Part no.	Thread	Material	Dimensions (mm)				Sleeve
			A	B	C	⌀	
Sleeve							
I0630191W	-	Steel	15,4	41,3	-	-	
I0630195W	-	AISI 316	15,4	40,5	-	-	

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


Male fitting								
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 316	-	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	



Male fitting 60° internal cone								
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	⌀	
Male fitting 100° external cone								
30620361A	G1/4"	Steel	-	4	67	18	17	
Male fitting for USIT® Ring								
30620391A	G1/4"	Steel	-	4,0	61	11	22	
30620351A	G3/8"	Steel	-	4	61	11	24	
Male fitting flat seal								
30620381A	G1/4"	Steel	-	4	66	15	12	
Male fitting DIN3852 T2 form A								
30620301A	G1/4"	Steel	-	4	64	12	19	
Female fitting NPT/NPTF								
30620441A	1/4"x18NPTF	Steel	-	4	66,5	20	19	
Universal female swivel 24°/60°								
20620301A	G1/4"	Steel	50540301	4	55	-	19	
20620305A	G1/4"	AISI 316	50540305	4	55	-	19	
Universal female swivel 24°/60° light								
20620101A	M14x1,5	Steel	50540101	4	55	-	19	
Universal female swivel 24°/60° heavy								
20620141A	M16x1,5	Steel	50620121	4	56	-	19	
20620145A	M16x1,5	AISI 316	50620125	4	56	-	19	

Part no.	Thread	Material	Nut	Dimensions (mm)				Insert
				A	B	C	⌀	
Female swivel with O-Ring								
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	
Type M female swivel								
20620641A	9/16"x18UNF	Steel	50540601	4	57	-	19	
20620645A	9/16"x18UNF	AISI 316	50540605	4	57	-	19	
JIC female swivel								
S20630615A	9/16"x18UNF	AISI 316	S5063615	4	53	-	19	

Part no.	Thread	Material	Relief bores	Dimensions (mm)				Swivel nut
				A	B	C	⌀	
Swivel nut								
50540601	9/16"x18UNF	Steel	1 radial	9,2	18	14	19	
50540605	9/16"x18UNF	AISI 316	1 radial	9,2	18	14	19	
S5063615	9/16"x18UNF	AISI 316	1 radial	9,5	18	14	19	
50540301	G1/4"	Steel	1 radial	9,2	16,5	8,5	19	
50540305	G1/4"	AISI 316	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 316	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 316	2 axial	14,2	25	14	30	
51321206	M24x1,5	Steel	2 axial	16,8	23	16	32	

Part no.	Material	Crimp ring	Dimensions (mm)		Bend restrictor
			Ø	Length	
Rubber bend restrictor					
I.9518600	Rubber	I003035	34	I26	

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	
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	I.9518600	I003035	-	
Securing grip	-	-	9056400	
Bend restrictor and securing grip	I.9518600	I003035	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.

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Hose Type 6/2WL Twin

62WLD2221

SPIR STAR®

ID6 - Series: A

Applications

Hydraulics: Torque wrenching

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 and blue
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
5,9 mm	12,0 mm	--	1.200 bar	80 mm	0,474 kg/m	4,0 mm
0,23 inch	0,47 inch	--	17.400 psi	3,15 inch	0,318 lbs/ft	0,16 inch

Part no.	Thread	Material	Dimensions (mm)				Sleeve
			A	B	C	⌀	
Sleeve							
I0630191W	-	Steel	15,4	41,3	-	-	
I0630195W	-	AISI 316	15,4	40,5	-	-	

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

Male fitting								
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 316	-	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	

Male fitting 60° internal cone								
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	

Male fitting 100° external cone								
Part no.	Thread	Material	Nut	A	B	C	⌀	
30620361A	G1/4"	Steel	-	4	67	18	17	

Part no.	Thread	Material	Nut	Dimensions (mm)				Insert
				A	B	C	Ø	
Male fitting for USIT® Ring								
30620391A	G1/4"	Steel	-	4,0	61	11	22	
30620351A	G3/8"	Steel	-	4	61	11	24	
Male fitting flat seal								
30620381A	G1/4"	Steel	-	4	66	15	12	
Male fitting DIN3852 T2 form A								
30620301A	G1/4"	Steel	-	4	64	12	19	
Female fitting NPT/NPTF								
30620441A	1/4"x18NPTF	Steel	-	4	66,5	20	19	
Universal female swivel 24°/60°								
20620301A	G1/4"	Steel	50540301, 50540305	4	55	-	19	
20620305A	G1/4"	AISI 316	50540305	4	55	-	19	
Universal female swivel 24°/60° light								
20620101A	M14x1,5	Steel	50540101	4	55	-	19	
Universal female swivel 24°/60° heavy								
20620141A	M16x1,5	Steel	50620121	4	56	-	19	
20620145A	M16x1,5	AISI 316	50620125	4	56	-	19	
Female swivel with O-Ring								
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	

Part no.	Thread	Material	Nut	Dimensions (mm)				Insert
				A	B	C	⌀	
Type M female swivel								
20620641A	9/16"x18UNF	Steel	50540601	4	57	-	19	
20620645A	9/16"x18UNF	AISI 316	50540605	4	57	-	19	
JIC female swivel								
S20630615A	9/16"x18UNF	AISI 316	S5063615	4	53	-	19	

Part no.	Thread	Material	Relief bores	Dimensions (mm)				Swivel nut
				A	B	C	⌀	
Swivel nut								
50540601	9/16"x18UNF	Steel	1 radial	9,2	18	14	19	
50540605	9/16"x18UNF	AISI 316	1 radial	9,2	18	14	19	
S5063615	9/16"x18UNF	AISI 316	1 radial	9,5	18	14	19	
50540301	G1/4"	Steel	1 radial	9,2	16,5	8,5	19	
50540305	G1/4"	AISI 316	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 316	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 316	2 axial	14,2	25	14	30	
51321206	M24x1,5	Steel	2 axial	16,8	23	16	32	

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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Hose Type 6/3

63070



DuraLife Flex ®

ID6 - Series: A and Q

Applications

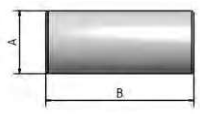
- Waterblast:** Heat exchanger tube cleaning
- Hydraulics:** Pressure test equipment (valves, tooling and control panels), hydraulic tools (instrumentation packages for gauges, control of service equipment, hydraulic jacks, hydraulic tools)

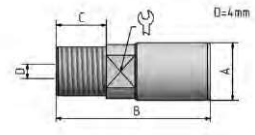


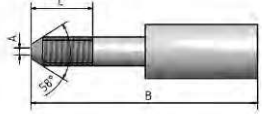
Technical Information

- Inner Core:** Polyoxymethylene (POM)
- Pressure Support:** 2 layers of high-tensile steel wire, 1 braided layer of galvanized steel wire
- Outer Cover:** Polyamide (PA)
- Color:** Green
- 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
6,1 mm	12,3 mm	--	1.040 bar	110 mm	0,280 kg/m	4,0 mm
0,24 inch	0,48 inch	--	15.080 psi	4,33 inch	0,188 lbs/ft	0,16 inch

Part no.	Thread	Material	Dimensions (mm)				Sleeve
			A	B	C	⌀	
Sleeve							
10630111	-	Steel	14,1	39,7	-	-	

Part no.	Thread	Material	Hose part	Dimensions (mm)				OnePiece Fittings® WS
				A	B	C	⌀	
OnePiece Fittings® with wrench size								
30630461Q	1/4"x18NPTF	Steel	30620462/1Q	14	43	14	12	

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

Part no.	Thread	Material	Nut	Dimensions (mm)				Insert
				A	B	C		
Male fitting								
3062041IA	1/8"x27NPTF	Steel	-	4	58	10	12	
3062040IA	1/4"x18NPTF	Steel	-	4	68	14	14	
30620405A	1/4"x18NPTF	AISI 316	-	4	68	14	14	
3062045IA	3/8"x18NPTF	Steel	-	4	64	14	17	
3062004IA	M10x1	Steel	-	4	65	12	12	
3062031IA	G1/8"	Steel	-	4	59	10	9	
Male fitting 60° internal cone								
3062034IA	G1/4"	Steel	-	4	62,5	12	14	
3062032IA	G3/8"	Steel	-	4	60,5	12	17	
Male fitting 100° external cone								
3062036IA	G1/4"	Steel	-	4	67	18	17	
Male fitting for USIT® Ring								
3062039IA	G1/4"	Steel	-	4,0	61	11	22	
3062035IA	G3/8"	Steel	-	4	61	11	24	
Male fitting flat seal								
3062038IA	G1/4"	Steel	-	4	66	15	12	
Male fitting DIN3852 T2 form A								
3062030IA	G1/4"	Steel	-	4	64	12	19	
Female fitting NPT/NPTF								
3062044IA	1/4"x18NPTF	Steel	-	4	66,5	20	19	
Universal female swivel 24°/60°								
2062030IA	G1/4"	Steel	50540301	4	55	-	19	
20620305A	G1/4"	AISI 316	50540305	4	55	-	19	

Part no.	Thread	Material	Nut	Dimensions (mm)				Insert
				A	B	C	⌀	
Universal female swivel 24°/60° light								
20620101A	M14x1,5	Steel	50540101	4	55	-	19	
Universal female swivel 24°/60° heavy								
20620141A	M16x1,5	Steel	50620121	4	56	-	19	
20620145A	M16x1,5	AISI 316	50620125	4	56	-	19	
Female swivel with O-Ring								
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	
Type M female swivel								
20620641A	9/16"x18UNF	Steel	50540601	4	57	-	19	
20620645A	9/16"x18UNF	AISI 316	50540605	4	57	-	19	
JIC female swivel								
S20630615A	9/16"x18UNF	AISI 316	S5063615	4	53	-	19	

Part no.	Thread	Material	Relief bores	Dimensions (mm)				Swivel nut
				A	B	C	⌀	
Swivel nut								
50540601	9/16"x18UNF	Steel	1 radial	9,2	18	14	19	
50540605	9/16"x18UNF	AISI 316	1 radial	9,2	18	14	19	
S5063615	9/16"x18UNF	AISI 316	1 radial	9,5	18	14	19	
50540301	G1/4"	Steel	1 radial	9,2	16,5	8,5	19	
50540305	G1/4"	AISI 316	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 316	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 316	2 axial	14,2	25	14	30	
51321206	M24x1,5	Steel	2 axial	16,8	23	16	32	

Part no.	Thread	Material	Dimensions (mm)			D	Tube cleaning accessories
			A	B	C		
Stop sleeve							
I.8410630IA	-	Steel	-	14,1	41	-	-
I.8430630IQ	-	Steel	-	14	25	-	-
Marking ring							
I.851618.5	-	AISI 316	-	15,3	10	-	-
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			

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.

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:** Blue
- 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							
I0640101	-	Steel	16,4	47,5	-	-	
I0640105	-	AISI 316	16,4	47,1	-	-	
Blast-Pro® sleeve							
I0640232	-	Steel	14,5	26	-	-	

Part no.	Thread	Material	Nut	Dimensions (mm)				Insert
				A	B	C	⌀	
HP fitting								
40640205B	3/8"x24UNF LH	AISI 316	-	3,5	90	20	-	
MP fitting								
40640315B	3/8"x24UNF LH	AISI 316	-	3,5	89	11,1	-	


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		
Part no.	Thread	Material	Nut	Dimensions (mm)				⚙️	Insert
				A	B	C			
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		
Universal 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	⌀	
Type M female swivel								
20640641B	9/16"x18UNF	Steel	50540601	3,5	63	-	19	
20640645B	9/16"x18UNF	AISI 316	50540605	3,5	63	-	19	
JIC female swivel								
20640655B	9/16"x18UNF	AISI 316	50540605	3,5	58	-	19	

Part no.	Thread	Material	Relief bores	Dimensions (mm)				Swivel nut
				A	B	C	⌀	
Swivel nut								
50540601	9/16"x18UNF	Steel	1 radial	9,2	18	14	19	
50540605	9/16"x18UNF	AISI 316	1 radial	9,2	18	14	19	
50540301	G1/4"	Steel	1 radial	9,2	16,5	8,5	19	
50540305	G1/4"	AISI 316	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.	Thread	Material	Dimensions (mm)				Tube cleaning accessories	
			A	B	C	⌀		
Stop sleeve								
1.84106401B	-	Steel	-	16,4	49	-	-	
1.84106401Y	-	Steel	-	14,5	25	-	-	
Marking ring								
1.851618.5	-	AISI 316	-	15,6	10	-	-	

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					
I.9518600	Rubber	I003035	34	I26	

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	
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	
Securing grip		-	-	9056400	
Hose protection without spiral					
Description	Protection hose	Bend restrictor	Crimp ring	Securing grips	
Protection hose	I.901822	-	I002426	-	
with securing grip	I.902026	-	-	9056400	
Hose protection with spiral					
Description	Protection hose	Bend restrictor	Crimp ring	Securing grips	
Protection hose	I.912026	-	I003035	-	
with securing grip	I.912026	-	-	9056400	

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.

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Hose Type 6/4-1650

64008.1650

SPIR STAR®

ID6 - Series: B and Y

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	--	1.650 bar	180 mm	0,295 kg/m	3,5 mm
0,25 inch	0,50 inch	--	23.925 psi	7,09 inch	0,198 lbs/ft	0,14 inch

Part no.	Thread	Material	Dimensions (mm)				Sleeve
			A	B	C	⌀	
Sleeve							
I0640101	-	Steel	16,4	47,5	-	-	
I0640105	-	AISI 316	16,4	47,1	-	-	
Blast-Pro® sleeve							
I0640232	-	Steel	14,5	26	-	-	

Part no.	Thread	Material	Nut	Dimensions (mm)				Insert
				A	B	C	⌀	
HP fitting								
40640205B	3/8"x24UNF LH	AISI 316	-	3,5	90	20	-	
MP fitting								
40640315B	3/8"x24UNF LH	AISI 316	-	3,5	89	11,1	-	


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		
Part no.	Thread	Material	Nut	Dimensions (mm)				⚙	Insert
				A	B	C			
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		
Universal 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	⌀	
Type M female swivel								
20640641B	9/16"x18UNF	Steel	50540601	3,5	63	-	19	
20640645B	9/16"x18UNF	AISI 316	50540605	3,5	63	-	19	
JIC female swivel								
20640655B	9/16"x18UNF	AISI 316	50540605	3,5	58	-	19	

Part no.	Thread	Material	Relief bores	Dimensions (mm)				Swivel nut
				A	B	C	⌀	
Swivel nut								
50540601	9/16"x18UNF	Steel	1 radial	9,2	18	14	19	
50540605	9/16"x18UNF	AISI 316	1 radial	9,2	18	14	19	
50540301	G1/4"	Steel	1 radial	9,2	16,5	8,5	19	
50540305	G1/4"	AISI 316	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.	Thread	Material	Dimensions (mm)				Tube cleaning accessories	
			A	B	C	⌀		
Stop sleeve								
1.84106401B	-	Steel	-	16,4	49	-	-	
1.84106401Y	-	Steel	-	14,5	25	-	-	
Marking ring								
1.851618.5	-	AISI 316	-	16,3	10	-	-	

Part no.	Size (mm)	Material	Crimp ring	Hose protection
1.901822	ID Ø18, OD Ø22	PVC	I002426	
1.902026	ID Ø20, OD Ø26	PVC	-	
Hose protection with spiral				
1.912026	ID Ø19, OD Ø26	PVC	I003035	

Part no.	Material	Crimp ring	Dimensions (mm)		Bend restrictor
			Ø	Length	
Rubber bend restrictor					
I.9518600	Rubber	I003035	34	126	

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	
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	I.9518600	I003035	-	
Securing grip	-	-	9056400	
Bend restrictor and securing grip	I.9518600	I003035	905640L	
Hose protection without spiral				
Description	Protection hose	Bend restrictor	Crimp ring	Securing grips
Protection hose	I.901822	-	I002426	-
with bend restrictor	I.901822	I.9518600	I003035	-
with securing grip	I.902026	-	-	9056400
with bend restrictor and securing grip	I.902026	I.9518600	I003035	905640L
Hose protection with spiral				
Description	Protection hose	Bend restrictor	Crimp ring	Securing grips
Protection hose	I.912026	-	I003035	-
with bend restrictor	I.912026	I.9518600	I003035	-
with securing grip	I.912026	-	-	9056400
with bend restrictor and securing grip	I.912026	I.9518600	I003035	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.

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Hose Type 6/6H

66H006

SPIR STAR®

MAXIMUS

ID6 - Series: C

Applications

Waterblast: Heat exchanger tube cleaning, surface preparation (concrete removal, surface cleaning of buildings, paint removal), tank and vessel cleaning, ultra high-pressure waterjet cutting and hydro demolition (cutting and demolition of armoured concrete, pipelines, paper or steel)

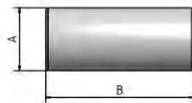
Hydraulics: Pressure test equipment (valves, tooling and control panels), hydraulic tools (instrumentation packages for gauges, control of service equipment, hydraulic jacks, hydraulic tools)

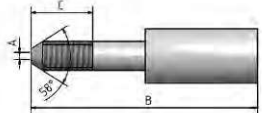


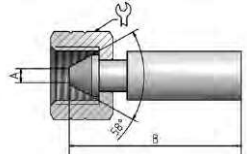
Technical Information

Inner Core: Polyoxymethylene (POM)
Pressure Support: 6 layers of high-tensile steel wire
Outer Cover: Polyamide (PA)
Color: Red
Temperature: -30°C to +60°C [-22°F to 140°F]

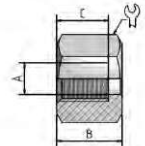
Ø ID	Ø OD	Working Pressure -- (SF 2,5:1)	Burst Pressure	Bend Radius	Weight	Insert ID
5,9 mm	16,4 mm	--	2.800 bar	250 mm	0,750 kg/m	3,0 mm
0,23 inch	0,65 inch	--	40.600 psi	9,84 inch	0,503 lbs/ft	0,12 inch

Part no.	Thread	Material	Dimensions (mm)				Sleeve
			A	B	C	⌀	
Sleeve							
10660102	-	Steel	21,4	65,15	-	-	

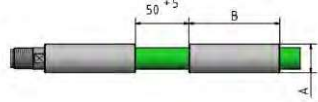
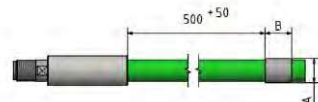
Part no.	Thread	Material	Nut	Dimensions (mm)				Insert
				A	B	C	⌀	
HP fitting								
40660204C	3/8"x24UNF LH	Stainless steel	-	3	98	20	-	
40660224C	9/16"x18UNF LH	Stainless steel	-	3	112	24	-	
40660124C	M14x1,5 LH	Stainless steel	-	3	112	24	-	



Type M female swivel								
20660604C	9/16"x18UNF	Stainless steel	50560605, 50560601	3	72	-	22	


Part no.	Thread	Material	Relief bores	Dimensions (mm)			Swivel nut
				A	B	C	
Swivel nut							
50560601	9/16"x18UNF	Steel	1 radial	9,2	18	14	22
50560605	9/16"x18UNF	AISI 316	1 radial	9,2	18	14	22





Part no.	Thread	Material	Relief bores	Dimensions (mm)			Tube cleaning accessories
				A	B	C	
Stop sleeve							
I.84106601C	-	Steel	-	21,4	65,2	-	-
Marking ring							
I.852125.1	-	Steel	-	20,4	20	-	-
I.852125.5	-	AISI 316	-	20,4	20	-	-

Part no.	Size (mm)	Material	Crimp ring	Crimp ring	Hose protection
Hose protection without spiral					
I.902531	ID Ø25, OD Ø31	PVC	I003335		
I.903037	ID Ø30, OD Ø39	PVC	I003941		
Hose protection with spiral					
I.912229	ID Ø22, OD Ø35	PVC	I003035		
I.913240	ID Ø32, OD Ø40	PVC	-		

Part no.	Material	Crimp ring	Dimensions (mm)		Bend restrictor
			Ø	Length	
PU bend restrictor					
I.9523406A	PU	I004145	44	250	

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					
9086400	600,00	780,00	20,40	15-20	
Hose securing grip long version					
908640L	600,00	990,00	20,40	15-20	

Accessories combinations				
Without hose protection				
Description	Bend restrictor	Crimp ring	Securing grips	
Bend restrictor	I.9523406A	I004145	-	
Securing grip	-	-	9086400	
Bend restrictor and securing grip	I.9523406A	I004145	908640L	
Hose protection without spiral				
Description	Protection hose	Bend restrictor	Crimp ring	Securing grips
Protection hose	I.902531	-	I003335	-
with bend restrictor	I.903037	I.9523406A	I004145	-
with securing grip	I.902531	-	-	9086400
with bend restrictor and securing grip	I.903037	I.9523406A	I004145	908640L
Hose protection with spiral				
Description	Protection hose	Bend restrictor	Crimp ring	Securing grips
Protection hose	I.912229	-	I003035	-
with bend restrictor	I.913240	I.9523406A	I004145	-
with securing grip	I.912229	-	-	9086400
with bend restrictor and securing grip	I.913240	I.9523406A	I004145	908640L

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.

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Hose Type 6mmUHP®

6UHP079

SPIR STAR®

MAXIMUS

ID6 - Series: C

Applications

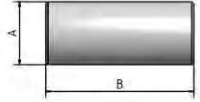
- Waterblast:** Surface preparation (concrete removal, surface cleaning of buildings, paint removal), tank and vessel cleaning
- Hydraulics:** Pressure test equipment (valves, tooling and control panels)

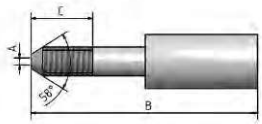
Technical Information

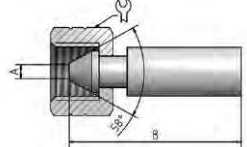
- Inner Core:** Polyoxymethylene (POM)
- Pressure Support:** 8 layers of high-tensile steel wire
- Outer Cover:** Polyamide (PA)
- Color:** Chrome yellow
- Temperature:** -30°C to +60°C [-22°F to 140°F]

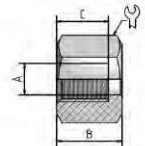


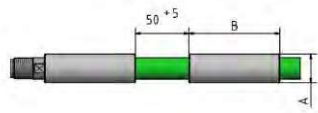
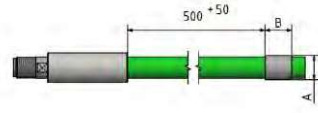
Ø ID	Ø OD	Working Pressure -- (SF 2,5:1)	Burst Pressure	Bend Radius	Weight	Insert ID
5,8 mm	18,6 mm	--	3.200 bar	280 mm	1,060 kg/m	3,0 mm
0,23 inch	0,73 inch	--	46.400 psi	11,02 inch	0,710 lbs/ft	0,12 inch



Part no.	Thread	Material	Dimensions (mm)				Sleeve
			A	B	C	⚙	
10680102	-	Steel	23,7	67,6	-	-	


Part no.	Thread	Material	Nut	Dimensions (mm)				Insert
				A	B	C	⚙	
HP fitting								
40660204C	3/8"x24UNF LH	Stainless steel	-	3	98	20	-	
40660224C	9/16"x18UNF LH	Stainless steel	-	3	112	24	-	
40660124C	M14x1,5 LH	Stainless steel	-	3	112	24	-	



Type M female swivel								
20660604C	9/16"x18UNF	Stainless steel	50560605, 50560601	3	72	-	22	

Part no.	Thread	Material	Relief bores	Dimensions (mm)				Swivel nut
				A	B	C	⚙	
Swivel nut								
50560601	9/16"x18UNF	Steel	1 radial	9,2	18	14	22	
50560605	9/16"x18UNF	AISI 316	1 radial	9,2	18	14	22	

Part no.	Thread	Material	Dimensions (mm)			Tube cleaning accessories		
			A	B	C			
Stop sleeve								
I.84106801C	-	Steel	-	23,7	66	-	-	
Marking ring								
I.852125.1	-	Steel	-	22,6	20	-	-	
I.852125.5	-	AISI 316	-	22,6	20	-	-	

Part no.	Size (mm)	Material	Crimp ring	Hose protection
Hose protection without spiral				
I.902531	ID Ø25, OD Ø31	PVC	I003335	
I.903037	ID Ø30, OD Ø39	PVC	I003941	
Hose protection with spiral				
I.912532	ID Ø25, OD Ø32	PVC	I003035	
I.913240	ID Ø32, OD Ø40	PVC	-	

Part no.	Material	Crimp ring	Dimensions (mm)		Bend restrictor
			Ø	Length	
PU bend restrictor					
I.9523406E	PU	I004145	44	250	

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					
9086400	600,00	780,00	20,40	15-20	
Hose securing grip long version					
908640L	600,00	990,00	20,40	15-20	

Accessories combinations

Without hose protection				
Description		Bend restrictor	Crimp ring	Securing grips
Bend restrictor		I.9523406E	I004145	-
Securing grip		-	-	9086400
Bend restrictor and securing grip		I.9523406E	I004145	908640L
Hose protection without spiral				
Description	Protection hose	Bend restrictor	Crimp ring	Securing grips
Protection hose	I.902531	-	I003335	-
with bend restrictor	I.903037	I.9523406E	I004145	-
with securing grip	I.902531	-	-	9086400
with bend restrictor and securing grip	I.903037	I.9523406E	I004145	908640L
Hose protection with spiral				
Description	Protection hose	Bend restrictor	Crimp ring	Securing grips
Protection hose	I.912532	-	I003035	-
with bend restrictor	I.913240	I.9523406E	I004145	-
with securing grip	I.912532	-	-	9086400
with bend restrictor and securing grip	I.913240	I.9523406E	I004145	908640L

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