

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.

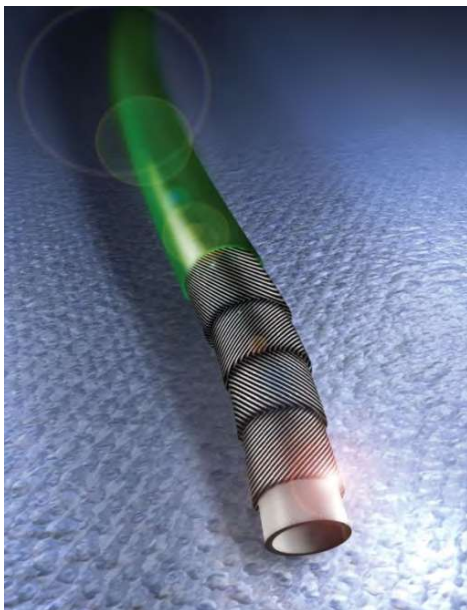
TÜV Rheinland Cert GmbH
Am Grauen Stein · 51105 Köln

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]									
ID25	Heat-resisting up to 70° C (158° F)																
25/2	24,8	0,98	33,5	1,32	440	6.380	1.100	15.950	300	11,81	0,950	0,636	16,5	0,65	40,0	1,57	Oil & Gas, Waterblast, Hydraulic
25/2W	25,0	0,98	35,6	1,40	640	9.280	1.600	23.200	280	11,02	1,490	0,998	16,5	0,65	44,0	1,73	Oil & Gas, Hydraulic
25/4	24,8	0,98	36,3	1,43	900	13.050	2.250	32.625	300	11,81	1,715	1,149	19,0	0,75	45,9	1,80	Oil & Gas, Waterblast, Hydraulic
25/6	24,8	0,98	39,8	1,57	1.400	20.300	3.000	43.500	600	23,62	2,800	1,876	17,5	0,69	49,0	1,92	Oil & Gas, Waterblast, Hydraulic

Applications

- Waterblast:** Heat exchanger tube cleaning, surface preparation (concrete removal, surface cleaning of buildings, paint removal)
- Hydraulics:** Pressure test equipment (valves, tooling and control panels)
- Oil and Gas:** Nitrogen service



Technical Information

- Inner Core:** Polyamide (PA)
- Pressure Support:** 2 layers of high-tensile steel wire
- Outer Cover:** Polyamide (PA)
- Color:** Green
- 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
24,8 mm	33,5 mm	--	440 bar	1.100 bar	300 mm	0,950 kg/m
0,98 inch	1,32 inch	--	6.380 psi	15.950 psi	11,81 inch	0,636 lbs/ft


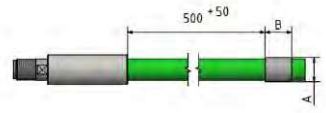
Part no.	Thread	Material	Dimensions (mm)				Sleeve
			A	B	C	⚙	
Sleeve							
12520121	-	Steel	40	75	-	-	



Part no.	Thread	Material	Nut	Dimensions (mm)				Insert
				A	B	C	⚙	
Male fitting								
32530411T	1"x11 1/2NPTF	Steel	-	16,5	120	25	36	
32530415T	1"x11 1/2NPTF	AISI 316	-	16,5	120	25	36	

Part no.	Thread	Material	Nut	Dimensions (mm)	⚙
22530201T	M42x2	Steel	52520201	16,5 110	- 50

Female swivel with O-Ring

Part no.	Thread	Material	Relief bores	Dimensions (mm)				Swivel nut
				A	B	C	⚙	
Swivel nut								
52520201	M42x2	Steel	1 radial	30,2	34	22	50	

Part no.	Thread	Material	Dimensions (mm)				 Tube cleaning accessories	
			A	B	C			
Marking ring								
I.854246.5	-	AISI 316	-	37,5	25	-	-	

Part no.	Mesh length (mm)	Overall length (mm)	Breaking strength (kN)	Suitable for SPIR STAR® hose outer diameter (mm)	 Hose securing grip
9204400	600,00	820,00	35,10	30-40	

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

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)

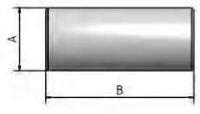
Color:

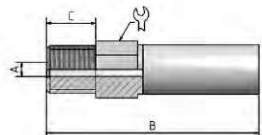
Black

Temperature:

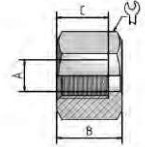
-30°C to +60°C [-22°F to 140°F]


Ø ID	Ø OD	Working Pressure		Burst Pressure	Bend Radius	Weight	Insert ID
		--	(SF 2.5:1)				
25,0 mm	35,6 mm	--	640 bar	1.600 bar	280 mm	1,490 kg/m	16,5 mm
0,98 inch	1,40 inch	--	9.280 psi	23.200 psi	11,02 inch	0,998 lbs/ft	0,65 inch

Part no.	Thread	Material	Dimensions (mm)				Sleeve
			A	B	C	⌀	
Sleeve							
I2530111W	-	Steel	44	74,5	-	-	

Part no.	Thread	Material	Nut	Dimensions (mm)				Insert
				A	B	C	⌀	
Male fitting								
32530411T	1"x11 1/2NPTF	Steel	-	16,5	120	25	36	
32530415T	1"x11 1/2NPTF	AISI 316	-	16,5	120	25	36	

Part no.	Thread	Material	Nut	Dimensions (mm)	Insert
				A B C ⌀	
Female swivel with O-Ring					
22530201T	M42x2	Steel	52520201	16,5 110 - 50	

Part no.	Thread	Material	Relief bores	Dimensions (mm)				Swivel nut
				A	B	C	⌀	
Swivel nut								
52520201	M42x2	Steel	1 radial	30,2	34	22	50	

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					
9204400	600,00	820,00	35,10	30-40	

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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.

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ID25 - Series: B

Applications

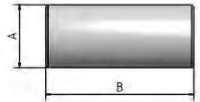
- Waterblast:** Heat exchanger tube cleaning, surface preparation (concrete removal, surface cleaning of buildings, paint removal), tank and vessel cleaning, ultra high-pressure waterjet cutting and hydro demolition (cutting and demolition of armoured concrete, pipelines, paper or steel)
- Hydraulics:** Pressure test equipment (valves, tooling and control panels), hydraulic tools (instrumentation packages for gauges, control of service equipment, hydraulic jacks, hydraulic tools)
- Oil and Gas:** Chemical injection, nitrogen service, Gaseous media handling

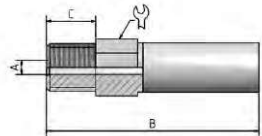


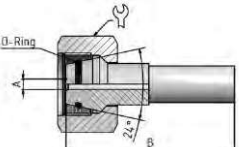
Technical Information

- Inner Core:** Polyamide (PA)
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
24,8 mm	36,3 mm	--	900 bar	300 mm	1,715 kg/m	19,0 mm
0,98 inch	1,43 inch	--	13.050 psi	11,81 inch	1,149 lbs/ft	0,75 inch

Part no.	Thread	Material	Dimensions (mm)				Sleeve
			A	B	C	⚙	
Sleeve							
12540235	-	AISI 316	45,9	75	-	-	

Part no.	Thread	Material	Nut	Dimensions (mm)				Insert
				A	B	C	⚙	
Male fitting								
32540404B	1"x11 1/2NPTF	Stainless steel	-	19	117	25	36	

Part no.	Thread	Material	Nut	Dimensions (mm)				Insert
				A	B	C	⚙	
Female swivel with O-Ring								
22540204B	M42x2	Stainless steel	52520201, 52521215	19	118	-	50	

Part no.	Thread	Material	Nut	Dimensions (mm)				Insert
				A	B	C	⌀	
Type M female swivel								
22540644B	I 5/16"x12UN	Stainless steel	52530645	19	98	-	41	

JIC female swivel								
22540604B	I 5/16"x12UN	Stainless steel	52530605	19	96	-	41	

Part no.	Thread	Material	Relief bores	Dimensions (mm)				Swivel nut
				A	B	C	⌀	
Swivel nut								
52530645	I 5/16"x12UN	AISI 316	I radial	27,1	31,5	11,5	41	
52530605	I 5/16"x12UN	AISI 316	I radial	27,1	34,5	14,5	41	
52520201	M42x2	Steel	I radial	30,2	34	22	50	
52521215	M42x2	AISI 316	2 axial	30,2	34	24	50	

Part no.	Thread	Material	Dimensions (mm)				Tube cleaning accessories	
			A	B	C	⌀		
Marking ring								
1.854246.5	-	AISI 316	-	40,3	25	-	-	

Part no.	Mesh length (mm)	Overall length (mm)	Breaking strength (kN)	Suitable for SPIR STAR® hose outer diameter (mm)	Hose securing grip
9204400	600,00	820,00	35,10	30-40	

Production related variations of the burst pressure of up to 5 % are possible. Other colors upon request.

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Hose Type 25/6

256201

SPIR STAR®

ULTRAFLOW

ID25 - 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)

Oil and Gas: Chemical injection, nitrogen service, Gaseous media handling

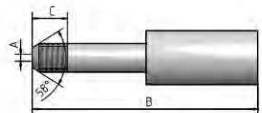


Technical Information

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

Ø ID	Ø OD	Working Pressure -- (SF 2,1:1)	Burst Pressure	Bend Radius	Weight	Insert ID
24,8 mm	39,8 mm	--	1.400 bar	600 mm	2,800 kg/m	17,5 mm
0,98 inch	1,57 inch	--	20.300 psi	23,62 inch	1,876 lbs/ft	0,69 inch

Part no.	Thread	Material	Dimensions (mm)				Sleeve
			A	B	C	⌀	
Sleeve							
12560232	-	Steel	49	80	-	-	

Part no.	Thread	Material	Nut	Dimensions (mm)				Insert
				A	B	C	⌀	
MP fitting								
42560304C	1"x14UNS LH	Stainless steel	-	17,5	165	30	-	

Part no.	Thread	Material	Nut	Dimensions (mm)				Insert
				A	B	C	⌀	
Female swivel with O-Ring								
22560204C	M42x2	Stainless steel	52520201	17,5	122	-	50	

Part no.	Thread	Material	Relief bores	Dimensions (mm)				Swivel nut
				A	B	C		
Swivel nut								
52520201	M42x2	Steel	1 radial	30,2	34	22	50	

Part no.	Thread	Material	Relief bores	Dimensions (mm)				Tube cleaning accessories
				A	B	C		
Marking ring								
1.854246.5	-	AISI 316	-	43,8	25	-	-	

Part no.	Size (mm)	Material	Crimp ring	Suitable for SPIR STAR® hose outer diameter (mm)	Hose protection with spiral
1.915158	ID Ø50, OD Ø58	PVC	I006064		

Part no.	Mesh length (mm)	Overall length (mm)	Breaking strength (kN)	Suitable for SPIR STAR® hose outer diameter (mm)	Hose securing grip short version
9256400	600,00	880,00	48,00	50-60	

Accessories combinations					
Without hose protection					
Description			Bend restrictor	Crimp ring	Securing grips
Securing grip			-	-	9256400
Hose protection with spiral					
Description	Protection hose		Bend restrictor	Crimp ring	Securing grips
Protection hose	1.915158		-	I006064	-
with securing grip	1.915158		-	-	9256400

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