

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. K. K.', positioned above a horizontal line.

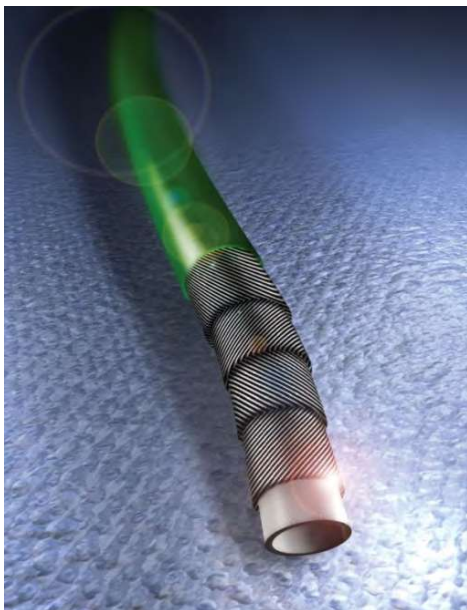
TÜV Rheinland Cert GmbH
Am Grauen Stein · 51105 Köln

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]									
ID5	<i>Heat-resisting up to 70° C (158° F)</i>																
5/2	5,0	0,20	9,4	0,37	1.040	15.080	2.600	37.700	95	3,74	0,125	0,084	3,0	0,12	12,9	0,50	Waterblast, Hydraulic
5/2H- 1400	4,9	0,19	9,5	0,37	1.400	20.300	3.500	50.750	95	3,74	0,148	0,099	3,0	0,12	12,9	0,50	Waterblast, Hydraulic
5/2OK	5,0	0,20	10,8	0,43	1.040	15.080	2.600	37.700	95	3,74	0,22	0,147	3,5	0,14	13,3	0,52	Waterblast, Hydraulic
5/3	5,0	0,20	10,3	0,41	1.120	16.240	2.800	40.600	95	3,74	0,218	0,146	3,0	0,12	12,9	0,50	Waterblast, Hydraulic
5/4	5,0	0,20	11,2	0,44	1.800	26.100	4.500	65.250	150	5,91	0,260	0,174	2,5	0,10	15,0	0,59	Waterblast, Hydraulic, Oil & Gas
5/6	4,8	0,19	13,2	0,52	2.500	36.250	6.250	90.625	200	7,87	0,450	0,302	2,5	0,10	17,5	0,68	Waterblast, Hydraulic
5/6H	4,6	0,18	14,4	0,57	2.800	40.600	7.000	101.500	220	8,66	0,563	0,377	2,5	0,10	19,7	0,77	Waterblast, Hydraulic
5/6HDC I	4,6	0,18	18,4	0,72	2.800	40.600	7.000	101.500	220	8,66	0,687	0,460	2,5	0,10	19,7	0,77	Waterblast, Hydraulic
5/6UHP-X-3035	4,8	0,19	13,3	0,52	3.035	44.000	7.000	101.500	210	8,27	0,450	0,302	2,5	0,10	17,8	0,91	Waterblast, Hydraulic
5mmUHP	4,5	0,18	15,3	0,6	3.200	46.400	8.000	116.000	250	9,84	0,693	0,464	2,5	0,10	19,7	0,77	Waterblast, Hydraulic
5mmUHP-X	4,5	0,18	15,3	0,6	4.000	58.000	8.000	116.000	250	9,84	0,693	0,464	2,5	0,10	19,7	0,77	Waterblast, Hydraulic

Hose Type 5/2

52070



DuraLife Flex ®

ID5 - 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)

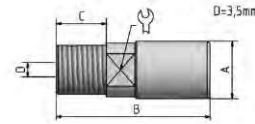


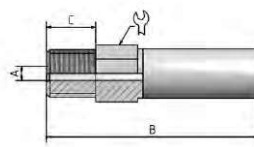
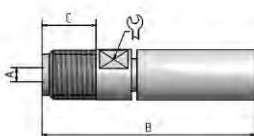
Technical Information

- 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
5,0 mm	9,4 mm	--	1.040 bar	95 mm	0,125 kg/m	3,0 mm
0,20 inch	0,37 inch	--	15.080 psi	3,74 inch	0,084 lbs/ft	0,12 inch

Part no.	Thread	Material	Dimensions (mm)				Sleeve
			A	B	C	⌀	
Sleeve							
10520101	-	Steel	12,9	38,2	-	-	

Part no.	Thread	Material	Hose part	Dimensions (mm)				OnePiece Fittings®WS
				A	B	C	⌀	
OnePiece Fittings® with wrench size								
3052044IQ	1/8"x27NPTF	Steel	30520442/IQ	11,4	39	10	9	

Part no.	Thread	Material	Nut	Dimensions (mm)				Insert
				A	B	C	⌀	
Male fitting								
3052040IA	1/8"x27NPTF	Steel	-	3	56	10	10	
3052045IA	1/4"x18NPTF	Steel	-	3	64	14	12	
3052030IA	G1/8"	Steel	-	3	60	10	9	
3052032IA	G1/4"	Steel	-	3	58	12	14	
3052001IA	M7	Steel	-	3	57,5	10	9	
3052004IA	M10x1	Steel	-	3	61,5	12	12	
Male fitting flat seal								
3052038IA	G1/8"	Steel	-	3	61	13	9	
3052002IA	M8x1,25	Steel	-	3	60	12	8	

Part no.	Thread	Material	Nut	Dimensions (mm)				Insert
				A	B	C	⌀	
Universal female swivel 24°/60°								
20520301A	G1/4"	Steel	50540301, 50540305	3	54	-	19	
Universal female swivel 24°/60° light								
20520101A	M14x1,5	Steel	50540101	3	54	-	19	
Female swivel with O-Ring								
20520042A	M24x1,5	Steel	51321206	3	72	-	32	
Type M female swivel								
20520601A	9/16"x18UNF	Steel	50540601, 50540605	3	54	-	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	
50540101	M14x1,5	Steel	1 radial	9,2	16,5	8,5	19	
51321206	M24x1,5	Steel	2 axial	16,8	23	16	32	
51320205	M24x1,5	AISI 316	1 radial	16,8	23	16	32	

Tube cleaning accessories

Part no.	Thread	Material	Dimensions (mm)			A	B	C
			A	B	C			
Stop sleeve								
I.8410520IA	-	Steel	-	12,8	40	-	-	
I.8430520IQ	-	Steel	-	11,4	25	-	-	

Marking ring								
I.851215.5	-	AISI 316	-	12,4	10	-	-	

Bend restrictor

Part no.	Material	Crimp ring	Dimensions (mm)		A	B	
			Ø	Length			
Rubber bend restrictor							
I.9518400	Rubber	I003035	34	130	-	-	

Hose securing grip

Part no.	Mesh length (mm)	Overall length (mm)	Breaking strength (kN)	Suitable for SPIR STAR® hose outer diameter (mm)	A	B	
Hose securing grip short version							
9034400	600,00	740,00	6,60	6-10	-	-	

Accessories combinations

Without hose protection				
Description	Bend restrictor	Crimp ring	Securing grips	
Bend restrictor	I.9518400	I003035	-	
Securing grip	-	-	9034400	
Bend restrictor and securing grip	-	-	-	

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.

Hose Type 5/2H-I400

52H076.1400



DuraLife Flex ®

ID5 - Series: A and Q

Applications

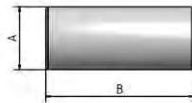
- Waterblast:** Heat exchanger tube cleaning
- Hydraulics:** Pressure test equipment (valves, tooling and control panels), hydraulic tools (instrumentation packages for gauges, control of service equipment, hydraulic jacks, hydraulic tools)

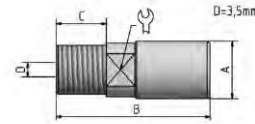


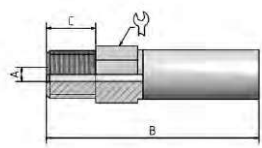
Technical Information

- Inner Core:** Polyoxymethylene (POM)
- Pressure Support:** 2 layers of high-tensile steel wire
- Outer Cover:** Polyamide (PA)
- Color:** Red
- 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
4,9 mm	9,5 mm	--	1.400 bar	95 mm	0,148 kg/m	3,0 mm
0,19 inch	0,37 inch	--	20.300 psi	3,74 inch	0,099 lbs/ft	0,12 inch

Part no.	Thread	Material	Dimensions (mm)				Sleeve
			A	B	C	⌀	
Sleeve							
10520101	-	Steel	12,9	38,2	-	-	

Part no.	Thread	Material	Hose part	Dimensions (mm)				OnePiece Fittings®WS
				A	B	C	⌀	
OnePiece Fittings® with wrench size								
30520441Q	1/8"x27NPTF	Steel	30520442/1Q	11,4	39	10	9	

Part no.	Thread	Material	Nut	Dimensions (mm)				Insert
				A	B	C	⌀	
Male fitting								
30520401A	1/8"x27NPTF	Steel	-	3	56	10	10	
30520451A	1/4"x18NPTF	Steel	-	3	64	14	12	
30520301A	G1/8"	Steel	-	3	60	10	9	
30520321A	G1/4"	Steel	-	3	58	12	14	
30520011A	M7	Steel	-	3	57,5	10	9	
30520041A	M10x1	Steel	-	3	61,5	12	12	

Part no.	Thread	Material	Nut	Dimensions (mm)				Insert
				A	B	C	⌀	
Male fitting flat seal								
30520381A	G1/8"	Steel	-	3	61	13	9	
30520021A	M8x1,25	Steel	-	3	60	12	8	
Universal female swivel 24°/60°								
20520301A	G1/4"	Steel	50540301, 50540305	3	54	-	19	
Universal female swivel 24°/60° light								
20520101A	M14x1,5	Steel	50540101	3	54	-	19	
Female swivel with O-Ring								
20520042A	M24x1,5	Steel	51321206	3	72	-	32	
Type M female swivel								
20520601A	9/16"x18UNF	Steel	50540601, 50540605	3	54	-	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	
50540101	M14x1,5	Steel	1 radial	9,2	16,5	8,5	19	
51321206	M24x1,5	Steel	2 axial	16,8	23	16	32	
51320205	M24x1,5	AISI 316	1 radial	16,8	23	16	32	

Part no.	Thread	Material	Dimensions (mm)			Tube cleaning accessories
			A	B	C	

Stop sleeve						
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I.8410520IA	-	Steel	-	12,8	40	-	-	
I.8430520IQ	-	Steel	-	11,4	25	-	-	

Marking ring						
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I.851215.5	-	AISI 316	-	12,5	10	-	-	
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Part no.	Material	Crimp ring	Dimensions (mm)		Bend restrictor
			Ø	Length	

Rubber bend restrictor					
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I.9518400	Rubber	I003035	34	130	
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Part no.	Mesh length (mm)	Overall length (mm)	Breaking strength (kN)	Suitable for SPIR STAR® hose outer diameter (mm)	Hose securing grip
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Hose securing grip short version					
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9034400	600,00	740,00	6,60	6-10	
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Accessories combinations			
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Without hose protection			
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Description	Bend restrictor	Crimp ring	Securing grips
Bend restrictor	I.9518400	I003035	-
Securing grip	-	-	9034400
Bend restrictor and securing grip	-	-	-

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.



ID5 - Series: KX and KQ

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
5,0 mm	10,8 mm	--	1.040 bar	95 mm	0,220 kg/m	3,5 mm
0,20 inch	0,43 inch	--	15.080 psi	3,74 inch	0,147 lbs/ft	0,14 inch

Part no.	Thread	Material	Hose part	Dimensions (mm)			OnePiece Fittings® WS
				A	B	C	
OnePiece Fittings® with wrench size							
3053045IKQ	1/8"x27NPTF	Steel	30520442/IQ	13,3	39	10	9

Part no.	Thread	Material	Hose part	Dimensions (mm)				OnePiece Fittings®
				A	B	C	D	
OnePiece Fittings®								
3053045IKX	1/8"x27NPTF	Steel	30520442/IX	3,5	31	10	13,3	

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 5/3

53070



DuraLife Flex ®

ID5 - Series: A and Q

Applications

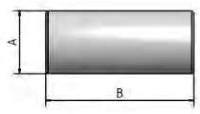
- Waterblast:** Heat exchanger tube cleaning
- Hydraulics:** Pressure test equipment (valves, tooling and control panels), hydraulic tools (instrumentation packages for gauges, control of service equipment, hydraulic jacks, hydraulic tools)

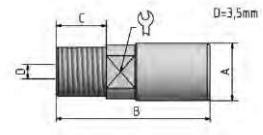


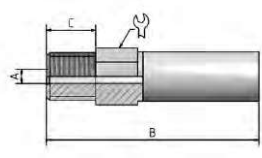
Technical Information

- 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
5,0 mm	10,3 mm	--	1.120 bar	95 mm	0,218 kg/m	3,0 mm
0,20 inch	0,41 inch	--	16.240 psi	3,74 inch	0,146 lbs/ft	0,12 inch

Part no.	Thread	Material	Dimensions (mm)				Sleeve
			A	B	C	W	
10530111	-	Steel	12,9	39,5	-	-	

Part no.	Thread	Material	Hose part	Dimensions (mm)				OnePiece Fittings®WS
				A	B	C	W	
30530441Q	1/8"x27NPTF	Steel	30520442/1Q	12,2	39	10	9	

Part no.	Thread	Material	Nut	Dimensions (mm)				Insert
				A	B	C	W	
30520401A	1/8"x27NPTF	Steel	-	3	56	10	10	
30520451A	1/4"x18NPTF	Steel	-	3	64	14	12	
30520301A	G1/8"	Steel	-	3	60	10	9	
30520321A	G1/4"	Steel	-	3	58	12	14	
30520011A	M7	Steel	-	3	57,5	10	9	
30520041A	M10x1	Steel	-	3	61,5	12	12	

Part no.	Thread	Material	Nut	Dimensions (mm)				Insert
				A	B	C	⌀	
Male fitting flat seal								
30520381A	G1/8"	Steel	-	3	61	13	9	
30520021A	M8x1,25	Steel	-	3	60	12	8	
Universal female swivel 24°/60°								
20520301A	G1/4"	Steel	50540301, 50540305	3	54	-	19	
Universal female swivel 24°/60° light								
20520101A	M14x1,5	Steel	50540101	3	54	-	19	
Female swivel with O-Ring								
20520042A	M24x1,5	Steel	51321206	3	72	-	32	
Type M female swivel								
20520601A	9/16"x18UNF	Steel	50540601, 50540605	3	54	-	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	
50540101	M14x1,5	Steel	1 radial	9,2	16,5	8,5	19	
51321206	M24x1,5	Steel	2 axial	16,8	23	16	32	
51320205	M24x1,5	AISI 316	1 radial	16,8	23	16	32	

Part no.	Thread	Material	Dimensions (mm)			Tube cleaning accessories
			A	B	C	

Stop sleeve						
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I.8410530IA	-	Steel	-	12,9	39	-	-	
I.8430530IQ	-	Steel	-	12,2	25	-	-	

Marking ring						
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I.851215.5	-	AISI 316	-	13,3	10	-	-	
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Part no.	Mesh length (mm)	Overall length (mm)	Breaking strength (kN)	Suitable for SPIR STAR® hose outer diameter (mm)	Hose securing grip
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Hose securing grip short version					
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9056400	600,00	740,00	10,20	10-15	
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Production related variations of the burst pressure of up to 5 % are possible. Other colors upon request.
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ID5 - 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
5,0 mm	11,2 mm	--	1.800 bar	150 mm	0,260 kg/m	2,5 mm
0,20 inch	0,44 inch	--	26.100 psi	5,91 inch	0,174 lbs/ft	0,10 inch

Part no.	Thread	Material	Dimensions (mm)				Sleeve
			A	B	C	⌀	
Sleeve							
10540101	-	Steel	15	49,5	-	-	
10540105	-	AISI 316	15	47,9	-	-	
Blast-Pro® sleeve							
10540232	-	Steel	12,4	24	-	-	

Part no.	Thread	Material	Nut	Dimensions (mm)				Insert
				A	B	C	⌀	
HP fitting								
40540215B	1/4"x28UNF LH	AISI 316	-	2,5	83	14	-	
40540205B	3/8"x24UNF LH	AISI 316	-	2,5	90	20	-	
40540225B	9/16"x18UNF LH	AISI 316	-	2,5	103	24	-	

Part no.	Thread	Material	Sleeve	Dimensions (mm)				Blast-Pro® Insert*
				A	B	C	⌀	
Blast-Pro® HP fitting								
40540234Y	1/4"x28UNF LH	Stainless steel	10540232	3	45	16	10	
40540214Y	3/8"x24UNF LH	Stainless steel	10540232	3	50	22	10	
Blast-Pro® HP female								
40540254Y	1/4"x28UNF LH	Stainless steel	10540232	3	44	9	8	

Part no.	Thread	Material	Nut	Dimensions (mm)				Insert
				A	B	C	⌀	
Male fitting								
30540401B	1/4"x18NPTF	Steel	-	2,5	71	14	14	
Male fitting 60° internal cone								
30540301B	G1/4"	Steel	-	2,5	70	12	14	
Male fitting 100° external cone								
30540361B	G1/4"	Steel	-	2,5	76	18	17	
Male fitting for USIT® Ring								
30540351B	G1/4"	Steel	-	2,5	68,5	11	22	
Universal female swivel 24°/60°								
20540301B	G1/4"	Steel	50540301	2,5	62	-	19	
20540305B	G1/4"	AISI 316	50540305	2,5	62	-	19	
Universal female swivel 24°/60° light								
20540101B	M14x1,5	Steel	50540101	2,5	62	-	19	

Part no.	Thread	Material	Nut	Dimensions (mm)				Insert
				A	B	C	⌀	
Female swivel with O-Ring								
20540041B	M20x1,5	Steel	50860201	2,5	77	-	27	
Type M female swivel								
20540641B	9/16"x18UNF	Steel	50540601	2,5	64	-	19	
20540645B	9/16"x18UNF	AISI 316	50540605	2,5	64	-	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	
50540101	M14x1,5	Steel	1 radial	9,2	16,5	8,5	19	
50860201	M20x1,5	Steel	1 radial	12,2	22	12	27	

Part no.	Thread	Material	Dimensions (mm)				Tube cleaning accessories	
			A	B	C	⌀		
Stop sleeve								
1.84105401B	-	Steel	-	15	49	-	-	
1.84105401Y	-	Steel	-	12,4	25	-	-	
Marking ring								
1.851316.5	-	AISI 316	-	14,2	10	-	-	

Part no.	Size (mm)	Material	Crimp ring	Hose protection
1.901621	ID Ø16, OD Ø21	PVC	1002224	
1.901822	ID Ø18, OD Ø22	PVC	-	

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	



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.901621	-	I002224	-
with securing grip	I.901822	-	-	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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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:

Bolt tensioning, 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:

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
4,8 mm	13,2 mm	--	2.500 bar	200 mm	0,450 kg/m	2,5 mm
0,19 inch	0,52 inch	--	36.250 psi	7,87 inch	0,302 lbs/ft	0,10 inch

Part no.	Thread	Material	Dimensions (mm)				Sleeve
			A	B	C	⌀	
Sleeve							
I0560136	-	Steel	17,8	68	-	-	
I0560135	-	AISI 316	17,8	68,1	-	-	

Part no.	Thread	Material	Nut	Dimensions (mm)				Insert
				A	B	C	⌀	
HP fitting								
40560294E	1/4"x28UNF LH	Stainless steel	-	2,5	103	14	-	
40560284E	3/8"x24UNF LH	Stainless steel	-	2,5	112	20	-	
40560264E	9/16"x18UNF LH	Stainless steel	-	2,5	124	24	-	
40560274E	M14x1,5 LH	Stainless steel	-	2,5	124	24	-	

Universal female swivel 24°/60°								
20560314E	G1/4"	Stainless steel	50560301	2,5	84	-	22	


Universal female swivel 24°/60° light								
20560164E	M14x1,5	Stainless steel	50540101	2,5	84	-	19	



Part no.	Thread	Material	Nut	Dimensions (mm)				Insert
				A	B	C	⌀	
Type M female swivel								
20560694E	9/16"x18UNF	Stainless steel	50560605, 50560601	2,5	85	-	22	
HP female swivel								
20560614E	9/16"x18UNF	Stainless steel	50560605, 50560601	2,5	79	-	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	
50560301	G1/4"	Steel	1 radial	9,2	19	11	22	
50540101	M14x1,5	Steel	1 radial	9,2	16,5	8,5	19	

Part no.	Thread	Material		Dimensions (mm)				Tube cleaning accessories
				A	B	C	⌀	
Stop sleeve								
I.84105601E	-	Steel	-	17,8	68	-	-	
Marking ring								
I.851618.5	-	AISI 316	-	16,2	10	-	-	

Part no.	Size (mm)	Material	Crimp ring		Hose protection
I.901822	ID Ø18, OD Ø22	PVC	I002426		
I.902228	ID Ø22, OD Ø28	PVC	-		
I.902531	ID Ø25, OD Ø31	PVC	-		
Hose protection with spiral					
I.912026	ID Ø19, OD Ø26	PVC	I003035		
I.912229	ID Ø22, OD Ø35	PVC	-		
I.912532	ID Ø25, OD Ø32	PVC	-		

Part no.	Material	Crimp ring	Dimensions (mm)		Bend restrictor
			Ø	Length	
PU bend restrictor					
I.9518306A	PU	I003035	34	250	

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.9518306A	I003035	-	
Securing grip	-	-	9056400	
Bend restrictor and securing grip	I.9518306A	I003035	905640L	
Hose protection without spiral				
Description	Protection hose	Bend restrictor	Crimp ring	Securing grips
Protection hose	I.901822	-	I002426	-
with bend restrictor	I.902531	I.9518306A	I003035	-
with securing grip	I.902228	-	-	9056400
with bend restrictor and securing grip	I.902531	I.9518306A	I003035	905640L
Hose protection with spiral				
Description	Protection hose	Bend restrictor	Crimp ring	Securing grips
Protection hose	I.912026	-	I003035	-
with bend restrictor	I.912532	I.9518306A	I003035	-
with securing grip	I.912229	-	-	9056400
with bend restrictor and securing grip	I.912532	I.9518306A	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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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:

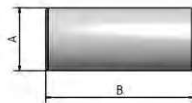
Bolt tensioning, pressure test equipment (valves, tooling and control panels), hydraulic tools (instrumentation packages for gauges, control of service equipment, hydraulic jacks, hydraulic tools)

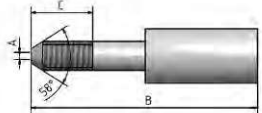


Technical Information

Inner Core:	Polyoxymethylene (POM)
Pressure Support:	6 layers of high-tensile steel wire
Outer Cover:	Polyamide (PA)
Color:	Red
Temperature:	-30°C to +70°C [-22°F to 158°F]

Ø ID	Ø OD	Working Pressure -- (SF 2,5:1)	Burst Pressure	Bend Radius	Weight	Insert ID
4,6 mm	14,4 mm	--	2.800 bar	220 mm	0,563 kg/m	2,5 mm
0,18 inch	0,57 inch	--	40.600 psi	8,66 inch	0,377 lbs/ft	0,10 inch

Part no.	Thread	Material	Dimensions (mm)				Sleeve
			A	B	C	⌀	
Sleeve							
10560116	-	Steel	17,9	67,4	-	-	

Part no.	Thread	Material	Nut	Dimensions (mm)				Insert
				A	B	C	⌀	
HP fitting								
40560294E	1/4"x28UNF LH	Stainless steel	-	2,5	103	14	-	
40560284E	3/8"x24UNF LH	Stainless steel	-	2,5	112	20	-	
40560264E	9/16"x18UNF LH	Stainless steel	-	2,5	124	24	-	
40560274E	M14x1,5 LH	Stainless steel	-	2,5	124	24	-	

Universal female swivel 24°/60°								
20560314E	G1/4"	Stainless steel	50560301	2,5	84	-	22	


Universal female swivel 24°/60° light								
20560164E	M14x1,5	Stainless steel	50540101	2,5	84	-	19	



Part no.	Thread	Material	Nut	Dimensions (mm)				Insert
				A	B	C	⌀	
Type M female swivel								
20560694E	9/16"x18UNF	Stainless steel	50560605, 50560601	2,5	85	-	22	
HP female swivel								
20560614E	9/16"x18UNF	Stainless steel	50560605, 50560601	2,5	79	-	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	
50560301	G1/4"	Steel	1 radial	9,2	19	11	22	
50540101	M14x1,5	Steel	1 radial	9,2	16,5	8,5	19	

Part no.	Thread	Material	Relief bores	Dimensions (mm)				Tube cleaning accessories
				A	B	C	⌀	
Stop sleeve								
I.8410561IE	-	Steel	-	17,9	68	-	-	
Marking ring								
I.851720.5	-	AISI 316	-	17,4	10	-	-	

Part no.	Size (mm)	Material	Crimp ring	Hose protection
I.902026	ID Ø20, OD Ø26	PVC	I002729	
I.902228	ID Ø22, OD Ø28	PVC	-	
I.902531	ID Ø25, OD Ø31	PVC	-	
Hose protection with spiral				
I.912229	ID Ø22, OD Ø35	PVC	I003035	
I.912532	ID Ø25, OD Ø32	PVC	-	

Part no.	Material	Crimp ring	Dimensions (mm)		Bend restrictor
			Ø	Length	
PU bend restrictor					
I.9518306B	PU	I003035	34	250	

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.9518306B	I003035	-	
Securing grip	-	-	9056400	
Bend restrictor and securing grip	I.9518306B	I003035	905640L	
Hose protection without spiral				
Description	Protection hose	Bend restrictor	Crimp ring	Securing grips
Protection hose	I.902026	-	I002729	-
with bend restrictor	I.902531	I.9518306B	I003035	-
with securing grip	I.902228	-	-	9056400
with bend restrictor and securing grip	I.902531	I.9518306B	I003035	905640L
Hose protection with spiral				
Description	Protection hose	Bend restrictor	Crimp ring	Securing grips
Protection hose	I.912229	-	I003035	-
with bend restrictor	I.912532	I.9518306B	I003035	-
with securing grip	I.912229	-	-	9056400
with bend restrictor and securing grip	I.912532	I.9518306B	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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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:

Bolt tensioning, 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:

First: Polyamide (PA), Second: Polyurethane (TPU)

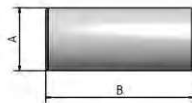
Color:

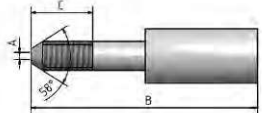
First: red, second: dark blue

Temperature:

-30°C to +70°C [-22°F to 158°F]

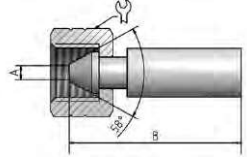
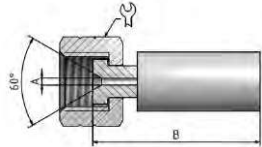
Ø ID	Ø OD	Working Pressure -- (SF 2,5:1)	Burst Pressure	Bend Radius	Weight	Insert ID
4,6 mm	18,4 mm	--	2.800 bar	220 mm	0,687 kg/m	2,5 mm
0,18 inch	0,72 inch	--	40.600 psi	8,66 inch	0,460 lbs/ft	0,10 inch

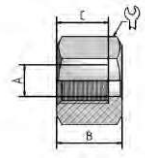
Part no.	Thread	Material	Dimensions (mm)				Sleeve
			A	B	C	⌀	
Sleeve							
10560116	-	Steel	17,9	67,4	-	-	

Part no.	Thread	Material	Nut	Dimensions (mm)				Insert
				A	B	C	⌀	
HP fitting								
40560294E	1/4"x28UNF LH	Stainless steel	-	2,5	103	14	-	
40560284E	3/8"x24UNF LH	Stainless steel	-	2,5	112	20	-	
40560264E	9/16"x18UNF LH	Stainless steel	-	2,5	124	24	-	
40560274E	M14x1,5 LH	Stainless steel	-	2,5	124	24	-	

Universal female swivel 24°/60°								
20560314E	G1/4"	Stainless steel	50560301	2,5	84	-	22	

Universal female swivel 24°/60° light								
20560164E	M14x1,5	Stainless steel	50540101	2,5	84	-	19	

Part no.	Thread	Material	Nut	Dimensions (mm)				Insert
				A	B	C	⌀	
Type M female swivel								
20560694E	9/16"x18UNF	Stainless steel	50560605, 50560601	2,5	85	-	22	
HP female swivel								
20560614E	9/16"x18UNF	Stainless steel	50560605, 50560601	2,5	79	-	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	
50560301	G1/4"	Steel	1 radial	9,2	19	11	22	
50540101	M14x1,5	Steel	1 radial	9,2	16,5	8,5	19	

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.

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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:

Bolt tensioning, 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:** Chrome yellow
- Temperature:** -30°C to +70°C [-22°F to 158°F]

Ø ID	Ø OD	Working Pressure -- (SF 2,3:1)	Burst Pressure	Bend Radius	Weight	Insert ID
4,8 mm	13,3 mm	--	3.035 bar	210 mm	0,450 kg/m	2,5 mm
0,19 inch	0,52 inch	--	44.000 psi	8,27 inch	0,302 lbs/ft	0,10 inch

Part no.	Thread	Material	Dimensions (mm)				Sleeve
			A	B	C	⌀	
Sleeve							
10560136	-	Steel	17,8	68	-	-	

Part no.	Thread	Material	Nut	Dimensions (mm)				Insert
				A	B	C	⌀	
HP fitting								
40560294E	1/4"x28UNF LH	Stainless steel	-	2,5	103	14	-	
40560284E	3/8"x24UNF LH	Stainless steel	-	2,5	112	20	-	
40560264E	9/16"x18UNF LH	Stainless steel	-	2,5	124	24	-	
40560274E	M14x1,5 LH	Stainless steel	-	2,5	124	24	-	

Universal female swivel 24°/60°								
20560314E	G1/4"	Stainless steel	50560301	2,5	84	-	22	

Universal female swivel 24°/60° light								
20560164E	M14x1,5	Stainless steel	50540101	2,5	84	-	19	

Part no.	Thread	Material	Nut	Dimensions (mm)				Insert
				A	B	C		
Type M female swivel								
20560694E	9/16"x18UNF	Stainless steel	50560605, 50560601	2,5	85	-	22	


HP female swivel								
20560614E	9/16"x18UNF	Stainless steel	50560605, 50560601	2,5	79	-	22	



Part no.	Thread	Material	Relief bores	Dimensions (mm)				Swivel nut
				A	B	C		
Swivel nut								
50560601	9/16"x18UNF	Steel	I radial	9,2	18	14	22	
50560605	9/16"x18UNF	AISI 316	I radial	9,2	18	14	22	
50560301	G1/4"	Steel	I radial	9,2	19	11	22	
50540101	M14x1,5	Steel	I radial	9,2	16,5	8,5	19	

Part no.	Thread	Material	Dimensions (mm)				Tube cleaning accessories	
			A	B	C			
Stop sleeve								
I.84105601E	-	Steel	-	17,8	68	-	-	

Marking ring								
I.851618.5	-	AISI 316	-	16,3	10	-	-	

Part no.	Size (mm)	Material	Crimp ring	Hose protection
I.901822	ID Ø18, OD Ø22	PVC	I002426	
I.902228	ID Ø22, OD Ø28	PVC	-	
I.902531	ID Ø25, OD Ø31	PVC	-	
Hose protection with spiral				
I.912026	ID Ø19, OD Ø26	PVC	I003035	
I.912229	ID Ø22, OD Ø35	PVC	-	
I.912532	ID Ø25, OD Ø32	PVC	-	

Part no.	Material	Crimp ring	Dimensions (mm)		Bend restrictor
			Ø	Length	
PU bend restrictor					
I.9518306A	PU	I003035	34	250	

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.9518306A	I003035	-	
Securing grip	-	-	9056400	
Bend restrictor and securing grip	I.9518306A	I003035	905640L	
Hose protection without spiral				
Description	Protection hose	Bend restrictor	Crimp ring	Securing grips
Protection hose	I.901822	-	I002426	-
with bend restrictor	I.902531	I.9518306A	I003035	-
with securing grip	I.902228	-	-	9056400
with bend restrictor and securing grip	I.902531	I.9518306A	I003035	905640L
Hose protection with spiral				
Description	Protection hose	Bend restrictor	Crimp ring	Securing grips
Protection hose	I.912026	-	I003035	-
with bend restrictor	I.912532	I.9518306A	I003035	-
with securing grip	I.912229	-	-	9056400
with bend restrictor and securing grip	I.912532	I.9518306A	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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Applications

- Waterblast:** 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), hydroforming



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
4,5 mm	15,3 mm	--	3.200 bar	250 mm	0,693 kg/m	2,5 mm
0,18 inch	0,60 inch	--	46.400 psi	9,84 inch	0,464 lbs/ft	0,10 inch

Part no.	Thread	Material	Dimensions (mm)				Sleeve
			A	B	C	⌀	
10580116	-	Steel	19,7	68,8	-	-	

Part no.	Thread	Material	Nut	Dimensions (mm)				Insert
				A	B	C	⌀	
HP fitting								
40560294E	1/4"x28UNF LH	Stainless steel	-	2,5	103	14	-	
40560284E	3/8"x24UNF LH	Stainless steel	-	2,5	112	20	-	
40560264E	9/16"x18UNF LH	Stainless steel	-	2,5	124	24	-	
40560274E	M14x1,5 LH	Stainless steel	-	2,5	124	24	-	


Universal female swivel 24°/60°								
20560314E	G1/4"	Stainless steel	50560301	2,5	84	-	22	


Universal female swivel 24°/60° light								
20560164E	M14x1,5	Stainless steel	50540101	2,5	84	-	19	


Part no.	Thread	Material	Nut	Dimensions (mm)				Insert
				A	B	C	⌀	
Type M female swivel								
20560694E	9/16"x18UNF	Stainless steel	50560605, 50560601	2,5	85	-	22	
HP female swivel								
20560614E	9/16"x18UNF	Stainless steel	50560605, 50560601	2,5	79	-	22	



Part no.	Thread	Material	Relief bores	Dimensions (mm)				Swivel nut
				A	B	C	⌀	
Swivel nut								
50560601	9/16"x18UNF	Steel	I radial	9,2	18	14	22	
50560605	9/16"x18UNF	AISI 316	I radial	9,2	18	14	22	
50560301	G1/4"	Steel	I radial	9,2	19	11	22	
50540101	M14x1,5	Steel	I radial	9,2	16,5	8,5	19	

Part no.	Thread	Material	Dimensions (mm)				Tube cleaning accessories	
			A	B	C	⌀		
Stop sleeve								
1.84105801E	-	Steel	-	19,7	69	-	-	
Marking ring								
1.851720.5	-	AISI 316	-	18,3	10	-	-	

Part no.	Material	Crimp ring	Dimensions (mm)		Bend restrictor
			Ø	Length	
PU bend restrictor					
I.9518306C	PU	I003035	34	250	

Part no.	Size (mm)	Material	Crimp ring	Hose protection
I.902228	ID Ø22, OD Ø28	PVC	I002830	
I.902531	ID Ø25, OD Ø31	PVC	-	

Part no.	Size (mm)	Material	Crimp ring	Hose protection
I.912229	ID Ø22, OD Ø35	PVC	I003035	
I.912532	ID Ø25, OD Ø32	PVC	-	

Part no.	Mesh length (mm)	Overall length (mm)	Breaking strength (kN)	Suitable for SPIR STAR® hose outer diameter (mm)	Hose securing grip
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	1.9518306C	1003035	-
Securing grip	-	-	9086400
Bend restrictor and securing grip	1.9518306C	1003035	908640L

Hose protection without spiral

Description	Protection hose	Bend restrictor	Crimp ring	Securing grips
Protection hose	1.902228	-	1002830	-
with bend restrictor	1.902531	1.9518306C	1003035	-
with securing grip	1.902531	-	-	9086400
with bend restrictor and securing grip	1.902531	1.9518306C	1003035	908640L

Hose protection with spiral

Description	Protection hose	Bend restrictor	Crimp ring	Securing grips
Protection hose	1.912229	-	1003035	-
with bend restrictor	1.912532	1.9518306C	1003035	-
with securing grip	1.912532	-	-	9086400
with bend restrictor and securing grip	1.912532	1.9518306C	1003035	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 5mmUHP-X

5UHP074-X

SPIR STAR®

ID5 - Series: EB

Applications

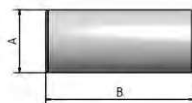
- Waterblast:** Surface preparation (concrete removal, surface cleaning of buildings, paint removal), tank and vessel cleaning, ultra high-pressure waterjet cutting and hydro demolition (cutting and demolition of armoured concrete, pipelines, paper or steel)
- Hydraulics:** Pressure test equipment (valves, tooling and control panels), hydroforming

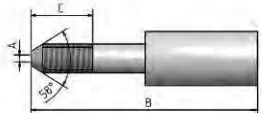


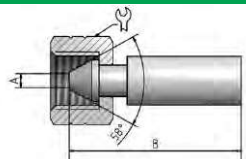
Technical Information

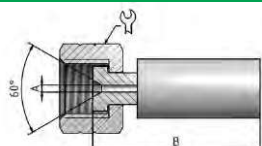
- Inner Core:** Polyoxymethylene (POM)
- Pressure Support:** 8 layers of high-tensile steel wire
- Outer Cover:** Polyamide (PA)
- Color:** Purple red
- Temperature:** -30°C to +60°C [-22°F to 140°F]

Ø ID	Ø OD	Working Pressure -- (SF 2,0:1)	Burst Pressure	Bend Radius	Weight	Insert ID
4,5 mm	15,3 mm	--	4.000 bar	250 mm	0,693 kg/m	2,5 mm
0,18 inch	0,60 inch	--	58.000 psi	9,84 inch	0,464 lbs/ft	0,10 inch

Part no.	Thread	Material	Dimensions (mm)				Sleeve
			A	B	C	⌀	
10580116	-	Steel	19,7	68,8	-	-	

Part no.	Thread	Material	Nut	Dimensions (mm)				Insert
				A	B	C	⌀	
HP fitting								
40560294EB	1/4"x28UNF LH	Stainless steel	-	2,5	103	14	-	
40560284EB	3/8"x24UNF LH	Stainless steel	-	2,5	112	20	-	
40560264EB	9/16"x18UNF LH	Stainless steel	-	2,5	124	24	-	
40560274EB	M14x1,5 LH	Stainless steel	-	2,5	124	24	-	

Type M female swivel								
20560694EB	9/16"x18UNF	Stainless steel	50560605, 50560601	2,5	85	-	22	

HP female swivel								
20560614EB	9/16"x18UNF	Stainless steel	50560605, 50560601	2,5	79	-	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		
Marking ring								
1.851720.5	-	AISI 316	-	18,3	10	-	-	

Part no.	Material	Crimp ring	Dimensions (mm)		Bend restrictor
			Ø	Length	
PU bend restrictor					
1.9518306C	PU	I003035	34	250	

Part no.	Size (mm)	Material	Crimp ring	Hose protection
1.902228	ID Ø22, OD Ø28	PVC	I002830	
1.902531	ID Ø25, OD Ø31	PVC	-	
Hose protection with spiral				
1.912229	ID Ø22, OD Ø35	PVC	I003035	
1.912532	ID Ø25, OD Ø32	PVC	-	

Part no.	Mesh length (mm)	Overall length (mm)	Breaking strength (kN)	Suitable for SPIR STAR® hose outer diameter (mm)	Hose securing grip
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	1.9518306C	1003035	-
Securing grip	-	-	9086400
Bend restrictor and securing grip	1.9518306C	1003035	908640L

Hose protection without spiral

Description	Protection hose	Bend restrictor	Crimp ring	Securing grips
Protection hose	1.902228	-	1002830	-
with bend restrictor	1.902531	1.9518306C	1003035	-
with securing grip	1.902531	-	-	9086400
with bend restrictor and securing grip	1.902531	1.9518306C	1003035	908640L

Hose protection with spiral

Description	Protection hose	Bend restrictor	Crimp ring	Securing grips
Protection hose	1.912229	-	1003035	-
with bend restrictor	1.912532	1.9518306C	1003035	-
with securing grip	1.912532	-	-	9086400
with bend restrictor and securing grip	1.912532	1.9518306C	1003035	908640L

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