

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.

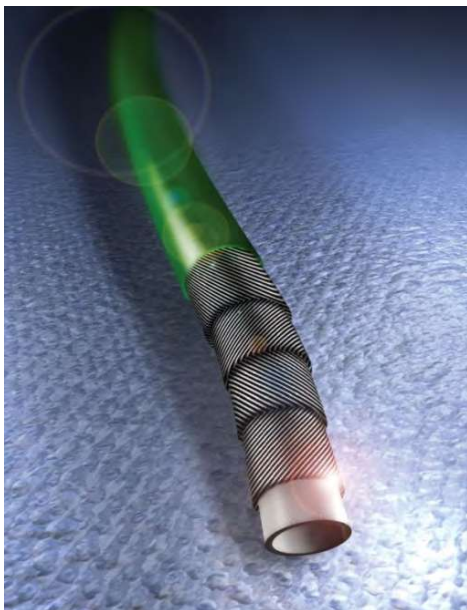
TÜV Rheinland Cert GmbH
Am Grauen Stein · 51105 Köln

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]									
ID8																	
<i>Heat-resisting up to 70° C (158° F)</i>																	
8/2	8,1	0,32	13,3	0,52	900	13.050	2.250	32.625	130	5,12	0,200	0,134	5,5	0,22	17,8	0,7	Waterblast, Hydraulic
8/2- 1000	8,1	0,32	13,3	0,52	1.000	14.500	2.500	36.250	110	4,33	0,200	0,134	5,5	0,22	17,8	0,7	Waterblast, Hydraulic
8/2W	8.0	0,31	14,3	0,56	1.040	15.080	2.600	37.700	110	4,33	0,314	0,210	5,5	0,22	18,3	0,72	Waterblast, Hydraulic, Oil and Gas
8/2W Twin	8.0	0,31	14,3	0,56	1.040	15.080	2.600	37.700	110	4,33	0,628	0,421	5,5	0,22	18,3	0,72	Hydraulic
8/2WL	8.0	0,31	14,0	0,55	1.000	14.500	2.500	36.250	100	3,94	0,317	0,212	5,5	0,22	18,3	0,72	Oil & Gas, Hydraulic
8/2WR	8.0	0,31	16,0	0,63	1.040	15.080	2.600	37.700	110	4,33	0,364	0,244	4,5	0,18	21,3	0,83	Oil & Gas, Waterblast, Hydraulic
8/4	8.0	0,31	14,6	0,57	1.500	21.750	3.800	55.100	200	7,87	0,390	0,261	4,5	0,18	20,3	0,79	Oil & Gas, Waterblast, Hydraulic
8/6	8.0	0,31	16,4	0,65	2.100	30.450	5.250	76.125	250	9,84	0,640	0,429	4,5	0,18	21,6	0,85	Waterblast, Hydraulic
8/6H	7,7	0,30	18,8	0,74	2.500	36.250	6.250	90.625	260	10,24	0,925	0,62	4,5	0,18	22,8	0,9	Waterblast, Hydraulic
8/6HDC I	7,7	0,30	22,8	0,9	2.500	36.250	6.250	90.625	260	10,24	1,085	0,727	4,5	0,18	22,8	0,9	Waterblast, Hydraulic
8/6UHP	7,6	0,30	19,3	0,76	2.800	40.600	7.000	101.500	300	11,81	1,055	0,707	4,5	0,18	23,7	0,93	Waterblast, Hydraulic
8/6UHP-X	7,6	0,30	19,3	0,76	3.035	44.000	7.000	101.500	300	11,81	1,055	0,707	4,5	0,18	23,7	0,93	Waterblast, Hydraulic
8mmUHP	7,6	0,30	22,0	0,87	3.200	46.400	7.400	107.300	300	11,81	1,500	1,005	4,5	0,18	29,7	1,16	Waterblast, Hydraulic

Hose Type 8/2

82070



DuraLife Flex ®

ID8 - Series: A and Q

Applications

Waterblast: Heat exchanger tube cleaning, surface preparation (concrete removal, surface cleaning of buildings, paint removal)

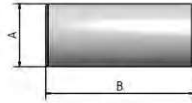
Hydraulics: Pressure test equipment (valves, tooling and control panels)

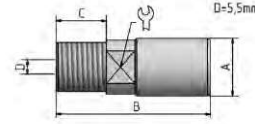


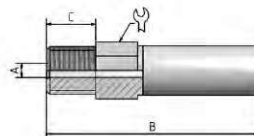
Technical Information

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
8,1 mm	13,3 mm	--	900 bar	130 mm	0,200 kg/m	5,5 mm
0,32 inch	0,52 inch	--	13.050 psi	5,12 inch	0,134 lbs/ft	0,22 inch

Part no.	Thread	Material	Dimensions (mm)				Sleeve
			A	B	C	Wrench	
I0820101	-	Steel	17,8	45,1	-	-	

Part no.	Thread	Material	Hose part	Dimensions (mm)				OnePiece Fittings® WS
				A	B	C	Wrench	
OnePiece Fittings® with wrench size								
3082046IQ	1/4"x18NPTF	Steel	30820442/IQ	17,5	47	14	16	
3082044IQ	3/8"x18NPT	Steel	30820442/IQ	17,5	46	14	16	

Part no.	Thread	Material	Nut	Dimensions (mm)				Insert
				A	B	C	Wrench	
Male fitting								
30820411A	1/4"x18NPTF	Steel	-	5,5	68	14	14	
30820401A	3/8"x18NPTF	Steel	-	5,5	69	14	17	

Part no.	Thread	Material	Nut	Dimensions (mm)				Insert
				A	B	C	Ø	
Male fitting 60° internal cone								
30820321A	G1/4"	Steel	-	5,5	63	12	14	
30820301A	G3/8"	Steel	-	5,5	65	12	17	
Male fitting flat seal								
30820381A	G1/4"	Steel	-	5,5	70	15	12	
30820311A	G3/8"	Steel	-	5,5	81	17	17	
Male fitting DIN3852 T2 form A								
30820341A	G3/8"	Steel	-	5,5	69,5	14,5	22	
Universal female swivel 24°/60°								
20820301A	G3/8"	Steel	50860301	5,5	62	-	24	
Female swivel with O-Ring								
20820201A	M20x1,5	Steel	50860201	5,5	65	-	27	
20820042A	M24x1,5	Steel	51321206, 51360206	5,5	75	-	32	
Type M female swivel								
20820645A	3/4"x16UNF	AISI 316	50840605, 50840601	5,5	62	-	24	
JIC female swivel								
20820601A	9/16"x18UNF	Steel	50820601	5,5	56	-	19	
20820605A	9/16"x18UNF	AISI 316	50820605, 50820601	5,5	56	-	19	

Part no.	Thread	Material	Relief bores	Dimensions (mm)				Swivel nut
				A	B	C		
Swivel nut								
50820601	9/16"x18UNF	Steel	1 radial	10,6	18	14	19	
50820605	9/16"x18UNF	AISI 316	1 radial	10,6	18	14	19	
50840601	3/4"x16UNF	Steel	1 radial	12,2	22,5	17,5	24	
50840605	3/4"x16UNF	AISI 316	1 radial	12,2	22,5	17,5	24	
50860301	G3/8"	Steel	1 radial	12,5	18,5	15,5	24	
50860201	M20x1,5	Steel	1 radial	12,2	22	12	27	
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								
I.8410820IA	-	Steel	-	17,8	47	-	-	
I.8430820IQ	-	Steel	-	17,5	29	-	-	
Marking ring								
I.851618.5	-	AISI 316	-	15,6	10	-	-	

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
Hose securing grip short version					
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

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 8/2-1000

820793.1000

SPIR STAR

DuraLife Flex®

ID8 - Series: A and Q

Applications

Waterblast: Heat exchanger tube cleaning, surface preparation (concrete removal, surface cleaning of buildings, paint removal)

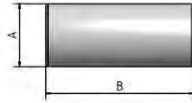
Hydraulics: Pressure test equipment (valves, tooling and control panels)

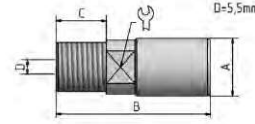
Technical Information

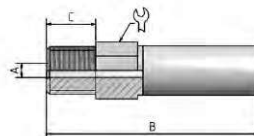
Inner Core: Polyoxymethylene (POM)
Pressure Support: 2 layers of high-tensile steel wire
Outer Cover: Polyamide (PA)
Color: Yellow
Temperature: -30°C to +70°C [-22°F to 158°F]



Ø ID	Ø OD	Working Pressure -- (SF 2.5:1)	Burst Pressure	Bend Radius	Weight	Insert ID
8,1 mm	13,3 mm	--	1.000 bar	110 mm	0,200 kg/m	5,5 mm
0,32 inch	0,52 inch	--	14.500 psi	4,33 inch	0,134 lbs/ft	0,22 inch

Part no.	Thread	Material	Dimensions (mm)				Sleeve
			A	B	C	Wrench size	
I0820101	-	Steel	17,8	45,1	-	-	

Part no.	Thread	Material	Hose part	Dimensions (mm)				OnePiece Fittings® WS
				A	B	C	Wrench size	
OnePiece Fittings® with wrench size								
3082046IQ	1/4"x18NPTF	Steel	30820442/IQ	17,5	47	14	16	
3082044IQ	3/8"x18NPT	Steel	30820442/IQ	17,5	46	14	16	

Part no.	Thread	Material	Nut	Dimensions (mm)				Insert
				A	B	C	Wrench size	
Male fitting								
30820411A	1/4"x18NPTF	Steel	-	5,5	68	14	14	
30820401A	3/8"x18NPTF	Steel	-	5,5	69	14	17	

Part no.	Thread	Material	Nut	Dimensions (mm)				Insert
				A	B	C	Ø	
Male fitting 60° internal cone								
30820321A	G1/4"	Steel	-	5,5	63	12	14	
30820301A	G3/8"	Steel	-	5,5	65	12	17	
Male fitting flat seal								
30820381A	G1/4"	Steel	-	5,5	70	15	12	
30820311A	G3/8"	Steel	-	5,5	81	17	17	
Male fitting DIN3852 T2 form A								
30820341A	G3/8"	Steel	-	5,5	69,5	14,5	22	
Universal female swivel 24°/60°								
20820301A	G3/8"	Steel	50860301	5,5	62	-	24	
Female swivel with O-Ring								
20820201A	M20x1,5	Steel	50860201	5,5	65	-	27	
20820042A	M24x1,5	Steel	51321206, 51360206	5,5	75	-	32	
Type M female swivel								
20820645A	3/4"x16UNF	AISI 316	50840605, 50840601	5,5	62	-	24	
JIC female swivel								
20820601A	9/16"x18UNF	Steel	50820601	5,5	56	-	19	
20820605A	9/16"x18UNF	AISI 316	50820605, 50820601	5,5	56	-	19	


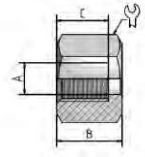
Hose Type 8/2-1000


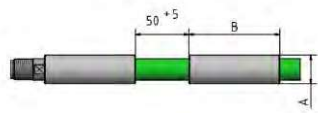
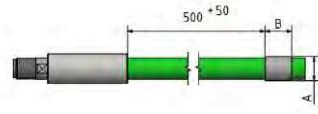
820793.1000






DuraLife Flex®

ID8 - Series: A and Q

Part no.	Thread	Material	Relief bores	Dimensions (mm)				Swivel nut
				A	B	C		
Swivel nut								
50820601	9/16"x18UNF	Steel	1 radial	10,6	18	14	19	
50820605	9/16"x18UNF	AISI 316	1 radial	10,6	18	14	19	
50840601	3/4"x16UNF	Steel	1 radial	12,2	22,5	17,5	24	
50840605	3/4"x16UNF	AISI 316	1 radial	12,2	22,5	17,5	24	
50860301	G3/8"	Steel	1 radial	12,5	18,5	15,5	24	
50860201	M20x1,5	Steel	1 radial	12,2	22	12	27	
51321206	M24x1,5	Steel	2 axial	16,8	23	16	32	

Part no.	Thread	Material	Relief bores	Dimensions (mm)				Tube cleaning accessories
				A	B	C		
Stop sleeve								
1.84108201A	-	Steel	-	17,8	47	-	-	
1.84308201Q	-	Steel	-	17,5	29	-	-	
Marking ring								
1.851618.5	-	AISI 316	-	16,3	10	-	-	

Part no.	Material	Crimp ring	Dimensions (mm)		Bend restrictor
			Ø	Length	
Rubber bend restrictor					
1.9518600	Rubber	1003035	34	126	

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	
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

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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Applications

- Waterblast:** Surface preparation (concrete removal, surface cleaning of buildings, paint removal)
- 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 -- (SF 2.5:1)	Burst Pressure	Bend Radius	Weight	Insert ID
8,0 mm	14,3 mm	--	1.040 bar	110 mm	0,314 kg/m	5,5 mm
0,31 inch	0,56 inch	--	15.080 psi	4,33 inch	0,210 lbs/ft	0,22 inch

Part no.	Thread	Material	Dimensions (mm)				⚙	Sleeve
			A	B	C			
Sleeve								
I0830191W	-	Steel	18,3	44,2	-	-		
I0830195W	-	AISI 316	18,3	44,5	-	-		

Part no.	Thread	Material	Nut	Dimensions (mm)				⚙	Insert
				A	B	C			
Male fitting									
30820411A	1/4"x18NPTF	Steel	-	5,5	68	14	14		
30820401A	3/8"x18NPTF	Steel	-	5,5	69	14	17		
Male fitting 60° internal cone									
30820321A	G1/4"	Steel	-	5,5	63	12	14		
30820301A	G3/8"	Steel	-	5,5	65	12	17		

Part no.	Thread	Material	Nut	Dimensions (mm)				Insert
				A	B	C	⌀	
Male fitting flat seal								
30820381A	G1/4"	Steel	-	5,5	70	15	12	
30820311A	G3/8"	Steel	-	5,5	81	17	17	
Male fitting DIN3852 T2 form A								
30820341A	G3/8"	Steel	-	5,5	69,5	14,5	22	
Universal female swivel 24°/60°								
20820301A	G3/8"	Steel	50860301	5,5	62	-	24	
Female swivel with O-Ring								
20820201A	M20x1,5	Steel	50860201	5,5	65	-	27	
20820042A	M24x1,5	Steel	51321206, 51360206	5,5	75	-	32	
Type M female swivel								
20820645A	3/4"x16UNF	AISI 316	50840605, 50840601	5,5	62	-	24	
JIC female swivel								
20820601A	9/16"x18UNF	Steel	50820601	5,5	56	-	19	
20820605A	9/16"x18UNF	AISI 316	50820605, 50820601	5,5	56	-	19	
Part no.	Thread	Material	Relief bores	Dimensions (mm)				Swivel nut
				A	B	C	⌀	
Swivel nut								
50820601	9/16"x18UNF	Steel	1 radial	10,6	18	14	19	
50820605	9/16"x18UNF	AISI 316	1 radial	10,6	18	14	19	
50840601	3/4"x16UNF	Steel	1 radial	12,2	22,5	17,5	24	
50840605	3/4"x16UNF	AISI 316	1 radial	12,2	22,5	17,5	24	
50860301	G3/8"	Steel	1 radial	12,5	18,5	15,5	24	
50860201	M20x1,5	Steel	1 radial	12,2	22	12	27	
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.

*) 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: 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
8,0 mm	14,3 mm	--	1.040 bar	110 mm	0,628 kg/m	5,5 mm
0,31 inch	0,56 inch	--	15.080 psi	4,33 inch	0,421 lbs/ft	0,22 inch

Part no.	Thread	Material	Dimensions (mm)				Sleeve
			A	B	C	⌀	
Sleeve							
I0830191W	-	Steel	18,3	44,2	-	-	
I0830195W	-	AISI 316	18,3	44,5	-	-	

Part no.	Thread	Material	Nut	Dimensions (mm)				Insert
				A	B	C	⌀	
Male fitting								
30820411A	1/4"x18NPTF	Steel	-	5,5	68	14	14	
30820401A	3/8"x18NPTF	Steel	-	5,5	69	14	17	
Male fitting 60° internal cone								
30820321A	G1/4"	Steel	-	5,5	63	12	14	
30820301A	G3/8"	Steel	-	5,5	65	12	17	
Male fitting flat seal								
30820381A	G1/4"	Steel	-	5,5	70	15	12	
30820311A	G3/8"	Steel	-	5,5	81	17	17	
Male fitting DIN3852 T2 form A								
30820341A	G3/8"	Steel	-	5,5	69,5	14,5	22	

Part no.	Thread	Material	Nut	Dimensions (mm)				Insert
				A	B	C	⌀	
Universal female swivel 24°/60°								
20820301A	G3/8"	Steel	50860301	5,5	62	-	24	
Female swivel with O-Ring								
20820201A	M20x1,5	Steel	50860201	5,5	65	-	27	
20820042A	M24x1,5	Steel	51321206, 51360206	5,5	75	-	32	
Type M female swivel								
20820645A	3/4"x16UNF	AISI 316	50840605, 50840601	5,5	62	-	24	
JIC female swivel								
20820601A	9/16"x18UNF	Steel	50820601	5,5	56	-	19	
20820605A	9/16"x18UNF	AISI 316	50820605, 50820601	5,5	56	-	19	

Part no.	Thread	Material	Relief bores	Dimensions (mm)				Swivel nut
				A	B	C	⌀	
Swivel nut								
50820601	9/16"x18UNF	Steel	1 radial	10,6	18	14	19	
50820605	9/16"x18UNF	AISI 316	1 radial	10,6	18	14	19	
50840601	3/4"x16UNF	Steel	1 radial	12,2	22,5	17,5	24	
50840605	3/4"x16UNF	AISI 316	1 radial	12,2	22,5	17,5	24	
50860301	G3/8"	Steel	1 radial	12,5	18,5	15,5	24	
50860201	M20x1,5	Steel	1 radial	12,2	22	12	27	
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, nitrogen service



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
8,0 mm	14,0 mm	--	1.000 bar	100 mm	0,317 kg/m	5,5 mm
0,31 inch	0,55 inch	--	14.500 psi	3,94 inch	0,212 lbs/ft	0,22 inch

Part no.	Thread	Material	Dimensions (mm)				Sleeve
			A	B	C	⌀	
Sleeve							
10830191W	-	Steel	18,3	44,2	-	-	
10830195W	-	AISI 316	18,3	44,5	-	-	

Part no.	Thread	Material	Nut	Dimensions (mm)				Insert
				A	B	C	⌀	
Male fitting								
30820411A	1/4"x18NPTF	Steel	-	5,5	68	14	14	
30820401A	3/8"x18NPTF	Steel	-	5,5	69	14	17	
Male fitting 60° internal cone								
30820321A	G1/4"	Steel	-	5,5	63	12	14	
30820301A	G3/8"	Steel	-	5,5	65	12	17	
Male fitting flat seal								
30820381A	G1/4"	Steel	-	5,5	70	15	12	
30820311A	G3/8"	Steel	-	5,5	81	17	17	
Male fitting DIN3852 T2 form A								
30820341A	G3/8"	Steel	-	5,5	69,5	14,5	22	

Part no.	Thread	Material	Nut	Dimensions (mm)				Insert
				A	B	C	⌀	
Universal female swivel 24°/60°								
20820301A	G3/8"	Steel	50860301	5,5	62	-	24	
Female swivel with O-Ring								
20820201A	M20x1,5	Steel	50860201	5,5	65	-	27	
20820042A	M24x1,5	Steel	51321206, 51360206	5,5	75	-	32	
Type M female swivel								
20820645A	3/4"x16UNF	AISI 316	50840605, 50840601	5,5	62	-	24	
JIC female swivel								
20820601A	9/16"x18UNF	Steel	50820601	5,5	56	-	19	
20820605A	9/16"x18UNF	AISI 316	50820605, 50820601	5,5	56	-	19	

Part no.	Thread	Material	Relief bores	Dimensions (mm)				Swivel nut
				A	B	C	⌀	
Swivel nut								
50820601	9/16"x18UNF	Steel	1 radial	10,6	18	14	19	
50820605	9/16"x18UNF	AISI 316	1 radial	10,6	18	14	19	
50840601	3/4"x16UNF	Steel	1 radial	12,2	22,5	17,5	24	
50840605	3/4"x16UNF	AISI 316	1 radial	12,2	22,5	17,5	24	
50860301	G3/8"	Steel	1 radial	12,5	18,5	15,5	24	
50860201	M20x1,5	Steel	1 radial	12,2	22	12	27	
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 8/2WR

82WR2281



Heavy duty outer cover for rough service

ID8 - Series: B

Applications

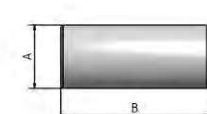
- Waterblast:** Heat exchanger tube cleaning, surface preparation (concrete removal, surface cleaning of buildings, paint removal)
- Hydraulics:** Pressure test equipment (valves, tooling and control panels)
- Oil and Gas:** Grease injection, nitrogen service

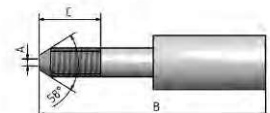


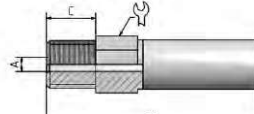
Technical Information

- Inner Core:** Polyamide (PA)
- Pressure Support:** 2 open layers, 2 dense layers of high-tensile steel wire
- Outer Cover:** Polyurethane (TPU)
- Color:** Silver
- Temperature:** -30°C to +60°C [-22°F to 140°F]

Ø ID	Ø OD	Working Pressure -- (SF 2,5:1)	Burst Pressure	Bend Radius	Weight	Insert ID
8,0 mm	16,0 mm	--	1.040 bar	110 mm	0,364 kg/m	4,5 mm
0,31 inch	0,63 inch	--	15.080 psi	4,33 inch	0,244 lbs/ft	0,18 inch

Part no.	Thread	Material	Dimensions (mm)				Sleeve
			A	B	C	⚙	
Sleeve							
10830201WVR	-	Steel	21,3	56	-	-	

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

Male fitting								
30840411B	1/4"x18NPTF	Steel	-	4,5	84	14	14	
30840401B	3/8"x18NPTF	Steel	-	4,5	82	14	17	
30840341B	G1/4"	Steel	-	4,5	82	14	14	

Male fitting flat seal								
30840311B	G1/4"	Steel	-	4,5	83	15	14	

Part no.	Thread	Material	Nut	Dimensions (mm)				Insert
				A	B	C	⌀	
Male fitting DIN3852 T2 form A								
30840301B	G3/8"	Steel	-	4,5	84,5	12	22	
Universal female swivel 24°/60°								
20840301B	G3/8"	Steel	50860301	4,5	72	-	24	
20840305B	G3/8"	AISI 316	50840305	4,5	74	-	24	
Female swivel with O-Ring								
20840201B	M20x1,5	Steel	50860201	4,5	77	-	27	
20840231B	M22x1,5	Steel	51060201, 51060205	4,5	79	-	30	
20840221B	M24x1,5	Steel	51321206, 51320205, 51360206	4,5	85	-	32	
Type M female swivel								
20840641B	3/4"x16UNF	Steel	50840601	4,5	73	-	24	
20840645B	3/4"x16UNF	AISI 316	50840605	4,5	73	-	24	
JIC female swivel								
20840605B	3/4"x16UNF	AISI 316	50840605	4,5	68	-	24	

Part no.	Thread	Material	Relief bores	Dimensions (mm)				Swivel nut
				A	B	C	⌀	
Swivel nut								
50840601	3/4"x16UNF	Steel	1 radial	12,2	22,5	17,5	24	
50840605	3/4"x16UNF	AISI 316	1 radial	12,2	22,5	17,5	24	
50860301	G3/8"	Steel	1 radial	12,5	18,5	15,5	24	
50840305	G3/8"	AISI 316	1 radial	12,2	18,5	13,5	24	
50860201	M20x1,5	Steel	1 radial	12,2	22	12	27	
51060201	M22x1,5	Steel	2 axial	14,2	23	14	30	
51060205	M22x1,5	AISI 316	2 axial	14,2	25	14	30	
51321206	M24x1,5	Steel	2 axial	16,8	23	16	32	
51320205	M24x1,5	AISI 316	1 radial	16,8	23	16	32	

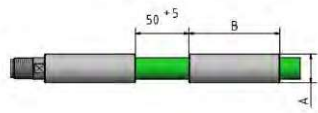
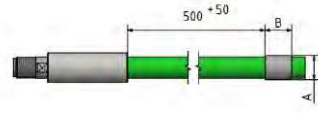
Hose Type 8/2WR


82WR2281



SPIR STAR®

Heavy duty outer cover for rough service

ID8 - Series: B

Part no.	Thread	Material	Dimensions (mm)			Tube cleaning accessories
			A	B	C	
Stop sleeve						
I.84108301B	-	Steel	-	21,3	56	- -
						
Marking ring						
I.851720.5	-	AISI 316	-	19	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					
9086400	600,00	780,00	20,40	15-20	

Part no.	Size (mm)	Material	Crimp ring	Hose protection
Hose protection without spiral				
I.902531	ID Ø25, OD Ø31	PVC	I003335	
Hose protection with spiral				
I.912532	ID Ø25, OD Ø32	PVC	I003035	



Accessories combinations				
Without hose protection				
Description		Bend restrictor	Crimp ring	Securing grips
Securing grip		-	-	9086400
Hose protection without spiral				
Description	Protection hose	Bend restrictor	Crimp ring	Securing grips
Protection hose	I.902531	-	I003335	-
with securing grip	I.902531	-	-	9086400
Hose protection with spiral				
Description	Protection hose	Bend restrictor	Crimp ring	Securing grips
Protection hose	I.912532	-	I003035	-
with securing grip	I.912532	-	-	9086400

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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ID8 - Series: B and Y

Applications

- Waterblast:** Heat exchanger tube cleaning, surface preparation (concrete removal, surface cleaning of buildings, paint removal), tank and vessel cleaning
- Hydraulics:** Pressure test equipment (valves, tooling and control panels)
- Oil and Gas:** Grease injection, chemical injection, nitrogen service, Gaseous media handling



Technical Information

- Inner Core:** Polyoxymethylene (POM)
- Pressure Support:** 4 layers of high-tensile steel wire
- Outer Cover:** Polyamide (PA)
- Color:** Grey
- Temperature:** -30°C to +70°C [-22°F to 158°F]

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

Part no.	Thread	Material	Dimensions (mm)				Sleeve
			A	B	C	⌀	
Sleeve							
I0840102	-	Steel	20,2	56,5	-	-	
I0840105	-	AISI 316	20,2	58	-	-	
Blast-Pro® sleeve							
I0840142	-	Steel	17,1	29	-	-	

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

Part no.	Thread	Material	Sleeve	Dimensions (mm)				Blast-Pro® Insert*
				A	B	C	⌀	
Blast-Pro® MP male								
40840244Y	9/16"x18UNF LH	Stainless steel	I0840142	5	75	25	15	



Part no.	Thread	Material	Nut	Dimensions (mm)				Insert
				A	B	C		
Male fitting								
3084041IB	1/4"x18NPTF	Steel	-	4,5	84	14	14	
3084040IB	3/8"x18NPTF	Steel	-	4,5	82	14	17	
3084034IB	G1/4"	Steel	-	4,5	82	14	14	
Male fitting flat seal								
3084031IB	G1/4"	Steel	-	4,5	83	15	14	
Male fitting DIN3852 T2 form A								
3084030IB	G3/8"	Steel	-	4,5	84,5	12	22	
Universal female swivel 24°/60°								
2084030IB	G3/8"	Steel	5086030I	4,5	72	-	24	
20840305B	G3/8"	AISI 316	50840305	4,5	74	-	24	
Female swivel with O-Ring								
2084020IB	M20x1,5	Steel	5086020I	4,5	77	-	27	
2084023IB	M22x1,5	Steel	5106020I, 51060205	4,5	79	-	30	
2084022IB	M24x1,5	Steel	51321206, 51320205, 51360206	4,5	85	-	32	
Type M female swivel								
2084064IB	3/4"x16UNF	Steel	5084060I	4,5	73	-	24	
20840645B	3/4"x16UNF	AISI 316	50840605	4,5	73	-	24	
JIC female swivel								
20840605B	3/4"x16UNF	AISI 316	50840605	4,5	68	-	24	

Part no.	Thread	Material	Relief bores	Dimensions (mm)				Swivel nut
				A	B	C		
Swivel nut								
50840601	3/4"x16UNF	Steel	1 radial	12,2	22,5	17,5	24	
50840605	3/4"x16UNF	AISI 316	1 radial	12,2	22,5	17,5	24	
50860301	G3/8"	Steel	1 radial	12,5	18,5	15,5	24	
50840305	G3/8"	AISI 316	1 radial	12,2	18,5	13,5	24	
50860201	M20x1,5	Steel	1 radial	12,2	22	12	27	
51060201	M22x1,5	Steel	2 axial	14,2	23	14	30	
51060205	M22x1,5	AISI 316	2 axial	14,2	25	14	30	
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	Relief bores	Dimensions (mm)				Tube cleaning accessories
				A	B	C		
Stop sleeve								
I.84108401B	-	Steel	-	20,1	58	-	-	
I.84108401Y	-	Steel	-	17,1	29	-	-	
Marking ring								
I.851720.5	-	AISI 316	-	17,6	10	-	-	

Part no.	Size (mm)	Material	Crimp ring	Dimensions (mm)		Hose protection
				Ø	Length	
Hose protection without spiral						
I.902228	ID Ø22, OD Ø28	PVC	I002830			
Hose protection with spiral						
I.912229	ID Ø22, OD Ø35	PVC	I003035			

Part no.	Material	Crimp ring	Dimensions (mm)		Bend restrictor
			Ø	Length	
Rubber bend restrictor					
I.9518100	Rubber	I003640	39	130	

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	
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	1.9518100	1003640	-	
Securing grip	-	-	9056400	
Bend restrictor and securing grip	1.9518100	1003640	905640L	
Hose protection without spiral				
Description	Protection hose	Bend restrictor	Crimp ring	Securing grips
Protection hose	1.902228	-	1002830	-
with bend restrictor	1.902228	1.9518100	1003640	-
with securing grip	1.902228	-	-	9056400
with bend restrictor and securing grip	1.902228	1.9518100	1003640	905640L
Hose protection with spiral				
Description	Protection hose	Bend restrictor	Crimp ring	Securing grips
Protection hose	1.912229	-	1003035	-
with bend restrictor	1.912229	1.9518100	1003640	-
with securing grip	1.912229	-	-	9056400
with bend restrictor and securing grip	1.912229	1.9518100	1003640	905640L

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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: Pressure test equipment (valves, tooling and control panels)



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
8,0 mm	16,4 mm	--	2.100 bar	250 mm	0,640 kg/m	4,5 mm
0,31 inch	0,65 inch	--	30.450 psi	9,84 inch	0,429 lbs/ft	0,18 inch

Part no.	Thread	Material	Dimensions (mm)				Sleeve
			A	B	C	⚙	
Sleeve							
10860106	-	Steel	21,6	63,4	-	-	

Part no.	Thread	Material	Nut	Dimensions (mm)				Insert
				A	B	C	⚙	
HP fitting								
40860214C	3/8"x24UNF LH	Stainless steel	-	4,5	100	20	-	
40860204C	9/16"x18UNF LH	Stainless steel	-	4,5	112	31	-	
40860104C	M14x1,5 LH	Stainless steel	-	4,5	112	24	-	

Female swivel with O-Ring								
20860224C	M24x1,5	Stainless steel	51320205, 51321206	4,5	91	-	32	

Type M female swivel								
20860644C	3/4"x16UNF	Stainless steel	50840605, 50840601	4,5	76	-	24	



Part no.	Thread	Material	Relief bores	Dimensions (mm)				Swivel nut
				A	B	C		
Swivel nut								
51320205	M24x1,5	AISI 316	1 radial	16,8	23	16	32	
50840601	3/4"x16UNF	Steel	1 radial	12,2	22,5	17,5	24	
50840605	3/4"x16UNF	AISI 316	1 radial	12,2	22,5	17,5	24	
51321206	M24x1,5	Steel	2 axial	16,8	23	16	32	

Part no.	Thread	Material	Relief bores	Dimensions (mm)				Tube cleaning accessories
				A	B	C		
Stop sleeve								
1.84108601C	-	Steel	-	21,6	63,4	-	-	

Part no.	Thread	Material	Relief bores	Dimensions (mm)				Tube cleaning accessories
				A	B	C		
Marking ring								
1.852125.1	-	Steel	-	20,4	20	-	-	
1.852125.5	-	AISI 316	-	20,4	20	-	-	

Part no.	Size (mm)	Material	Crimp ring	Crimp ring	Hose protection
1.902228	ID Ø22, OD Ø28	PVC	1002830		
1.902531	ID Ø25, OD Ø31	PVC	-		
1.903037	ID Ø30, OD Ø39	PVC	1003941		
Hose protection with spiral					
1.912229	ID Ø22, OD Ø35	PVC	1003035		
1.913240	ID Ø32, OD Ø40	PVC	-		

Part no.	Material	Crimp ring	Dimensions (mm)		Bend restrictor
			Ø	Length	
PU bend restrictor					
1.9523406A	PU	1004145	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.902228	-	I002830	-
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.912532	-	-	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.

*) 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, 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)



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
7,7 mm	18,8 mm	--	2.500 bar	260 mm	0,925 kg/m	4,5 mm
0,30 inch	0,74 inch	--	36.250 psi	10,24 inch	0,620 lbs/ft	0,18 inch

Part no.	Thread	Material	Dimensions (mm)				Sleeve
			A	B	C	⚙	
Sleeve							
10860116	-	Steel	22,8	88,6	-	-	

Part no.	Thread	Material	Nut	Dimensions (mm)				Insert
				A	B	C	⚙	
HP fitting								
40860214E	3/8"x24UNF LH	Stainless steel	-	4,5	131	20	-	
40860204E	9/16"x18UNF LH	Stainless steel	-	4,5	143	31	-	
40860104E	M14x1,5 LH	Stainless steel	-	4,5	143	31	-	

MP fitting								
40860324E	3/4"x16UNF LH	Stainless steel	-	4,5	139	18	-	


Type M female swivel								
Part no.	Thread	Material	Nut	A	B	C	⚙	
20860684E	7/8"x14UNF	Stainless steel	50860675	4,5	109	-	30	
20860644E	3/4"x16UNF	Stainless steel	50840605, 50840601	4,5	107	-	24	
20860694E	1 1/8"x12UNF	Stainless steel	50860695, 50860675	4,5	115	-	36	



Part no.	Thread	Material	Relief bores	Dimensions (mm)				Swivel nut
				A	B	C		
Swivel nut								
50840601	3/4"x16UNF	Steel	1 radial	12,2	22,5	17,5	24	
50840605	3/4"x16UNF	AISI 316	1 radial	12,2	22,5	17,5	24	
50860675	7/8"x14UNF	AISI 316	1 radial	12,2	26	20	30	
50860695	1 1/8"x12UNF	AISI 316	1 radial	16,2	35	23	36	

Part no.	Thread	Material	Relief bores	Dimensions (mm)				Tube cleaning accessories
				A	B	C		
Stop sleeve								
1.84108601E	-	Steel	-	23,7	87	-	-	

Part no.	Thread	Material	Relief bores	Dimensions (mm)				Tube cleaning accessories
				A	B	C		
Marking ring								
1.852125.1	-	Steel	-	22,8	20	-	-	
1.852125.5	-	AISI 316	-	22,8	20	-	-	

Part no.	Size (mm)	Material	Crimp ring	Hose protection
1.902531	ID Ø25, OD Ø31	PVC	1003335	
1.903037	ID Ø30, OD Ø39	PVC	-	
Hose protection with spiral				
1.912532	ID Ø25, OD Ø32	PVC	1003035	
1.913038	ID Ø30, OD Ø38	PVC	-	
1.913240	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
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.903037	-	-	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.913038	-	-	9086400
with bend restrictor and securing grip	I.913240	I.9523406E	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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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)



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: green
Temperature: -30°C to +70°C [-22°F to 158°F]


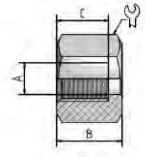
Ø ID	Ø OD	Working Pressure -- (SF 2,5:1)	Burst Pressure	Bend Radius	Weight	Insert ID
7,7 mm	22,8 mm	--	2.500 bar	260 mm	1,085 kg/m	4,5 mm
0,30 inch	0,90 inch	--	36.250 psi	10,24 inch	0,727 lbs/ft	0,18 inch



Part no.	Thread	Material	Dimensions (mm)				Sleeve
			A	B	C	⚙	
Sleeve							
10860116	-	Steel	22,8	88,6	-	-	


Part no.	Thread	Material	Nut	Dimensions (mm)				Insert
				A	B	C	⚙	
HP fitting								
40860214E	3/8"x24UNF LH	Stainless steel	-	4,5	131	20	-	
40860204E	9/16"x18UNF LH	Stainless steel	-	4,5	143	31	-	
40860104E	M14x1,5 LH	Stainless steel	-	4,5	143	31	-	

MP fitting								
40860324E	3/4"x16UNF LH	Stainless steel	-	4,5	139	18	-	

Type M female swivel								
20860644E	3/4"x16UNF	Stainless steel	50840605, 50840601	4,5	107	-	24	
20860684E	7/8"x14UNF	Stainless steel	50860675	4,5	109	-	30	
20860694E	1 1/8"x12UNF	Stainless steel	50860695, 50860675	4,5	115	-	36	

Part no.	Thread	Material	Relief bores	Dimensions (mm)				Swivel nut
				A	B	C		
Swivel nut								
50840601	3/4"x16UNF	Steel	1 radial	12,2	22,5	17,5	24	
50840605	3/4"x16UNF	AISI 316	1 radial	12,2	22,5	17,5	24	
50860675	7/8"x14UNF	AISI 316	1 radial	12,2	26	20	30	
50860695	1 1/8"x12UNF	AISI 316	1 radial	16,2	35	23	36	

Part no.	Mesh length (mm)	Overall length (mm)	Breaking strength (kN)	Suitable for SPIR STAR® hose outer diameter (mm)	Hose securing grip
9106400	600,00	800,00	20,40	20-25	
Hose securing grip long version					
910640L	600,00	1.010,00	20,40	20-25	

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

Accessories combinations			
Without hose protection			
Description	Bend restrictor	Crimp ring	Securing grips
Bend restrictor	I.9523406E	I004145	-
Securing grip	-	-	9106400
Bend restrictor and securing grip	I.9523406E	I004145	9106400L

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: Pressure test equipment (valves, tooling and control panels)



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 2,5:1)	Burst Pressure	Bend Radius	Weight	Insert ID
7,6 mm	19,3 mm	--	2.800 bar	300 mm	1,055 kg/m	4,5 mm
0,30 inch	0,76 inch	--	40.600 psi	11,81 inch	0,707 lbs/ft	0,18 inch

Part no.	Thread	Material	Dimensions (mm)				Sleeve
			A	B	C	⚙	
Sleeve							
10860116	-	Steel	23,7	88,6	-	-	

Part no.	Thread	Material	Nut	Dimensions (mm)				Insert
				A	B	C	⚙	
HP fitting								
40860214E	3/8"x24UNF LH	Stainless steel	-	4,5	131	20	-	
40860204E	9/16"x18UNF LH	Stainless steel	-	4,5	143	31	-	
40860104E	M14x1,5 LH	Stainless steel	-	4,5	143	31	-	

MP fitting								
40860324E	3/4"x16UNF LH	Stainless steel	-	4,5	139	18	-	

Type M female swivel								
Part no.	Thread	Material	Nut	A	B	C	⚙	
20860644E	3/4"x16UNF	Stainless steel	50840605, 50840601	4,5	107	-	24	
20860684E	7/8"x14UNF	Stainless steel	50860675	4,5	109	-	30	
20860694E	1 1/8"x12UNF	Stainless steel	50860695, 50860675	4,5	115	-	36	



Part no.	Thread	Material	Relief bores	Dimensions (mm)				Swivel nut
				A	B	C		
Swivel nut								
50840601	3/4"x16UNF	Steel	1 radial	12,2	22,5	17,5	24	
50840605	3/4"x16UNF	AISI 316	1 radial	12,2	22,5	17,5	24	
50860675	7/8"x14UNF	AISI 316	1 radial	12,2	26	20	30	
50860695	1 1/8"x12UNF	AISI 316	1 radial	16,2	35	23	36	

Part no.	Thread	Material	Relief bores	Dimensions (mm)				Tube cleaning accessories
				A	B	C		
Stop sleeve								
I.84108601E	-	Steel	-	23,7	87	-	-	

Part no.	Thread	Material	Relief bores	Dimensions (mm)				Tube cleaning accessories
				A	B	C		
Marking ring								
I.852125.1	-	Steel	-	23,3	20	-	-	
I.852125.5	-	AISI 316	-	23,3	20	-	-	

Part no.	Size (mm)	Material	Crimp ring	Crimp ring	Hose protection
I.902531	ID Ø25, OD Ø31	PVC	I003335		
I.903037	ID Ø30, OD Ø39	PVC	-		
Hose protection with spiral					
I.912532	ID Ø25, OD Ø32	PVC	I003035		
I.913038	ID Ø30, OD Ø38	PVC	-		
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	1.9523406E	1004145	-	
Securing grip	-	-	9086400	
Bend restrictor and securing grip	1.9523406E	1004145	908640L	
Hose protection without spiral				
Description	Protection hose	Bend restrictor	Crimp ring	Securing grips
Protection hose	1.902531	-	1003335	-
with bend restrictor	1.903037	1.9523406E	1004145	-
with securing grip	1.903037	-	-	9086400
with bend restrictor and securing grip	1.903037	1.9523406E	1004145	908640L
Hose protection with spiral				
Description	Protection hose	Bend restrictor	Crimp ring	Securing grips
Protection hose	1.912532	-	1003035	-
with bend restrictor	1.913240	1.9523406E	1004145	-
with securing grip	1.913038	-	-	9086400
with bend restrictor and securing grip	1.913240	1.9523406E	1004145	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 8/6UHP-X

86UHP079-X

SPIR STAR

ID8 - Series: E

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)

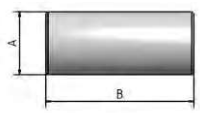
Hydraulics: Pressure test equipment (valves, tooling and control panels)

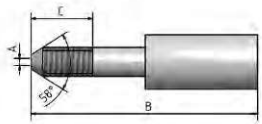


Technical Information

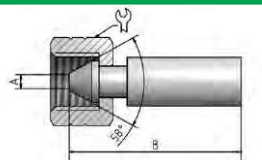
Inner Core: Polyoxymethylene (POM)
Pressure Support: 6 layers of high-tensile steel wire
Outer Cover: Polyamide (PA)
Color: Chrome yellow
Temperature: -30°C to +70°C [-22°F to 158°F]


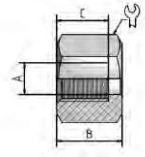
Ø ID	Ø OD	Working Pressure -- (SF 2,3:1)	Burst Pressure	Bend Radius	Weight	Insert ID
7,6 mm	19,3 mm	--	3.035 bar	300 mm	1,055 kg/m	4,5 mm
0,30 inch	0,76 inch	--	44.000 psi	11,81 inch	0,707 lbs/ft	0,18 inch


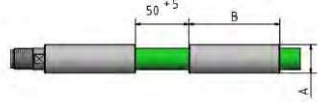
Part no.	Thread	Material	Dimensions (mm)				Sleeve
			A	B	C	⚙	
Sleeve							
10860116	-	Steel	23,7	88,6	-	-	

Part no.	Thread	Material	Nut	Dimensions (mm)				Insert
				A	B	C	⚙	
HP fitting								
40860214E	3/8"x24UNF LH	Stainless steel	-	4,5	131	20	-	
40860204E	9/16"x18UNF LH	Stainless steel	-	4,5	143	31	-	
40860104E	M14x1,5 LH	Stainless steel	-	4,5	143	31	-	



MP fitting								
Part no.	Thread	Material	Nut	Dimensions (mm)				Insert
				A	B	C	⚙	
40860324E	3/4"x16UNF LH	Stainless steel	-	4,5	139	18	-	


Type M female swivel								
Part no.	Thread	Material	Nut	Dimensions (mm)				Insert
				A	B	C	⚙	
20860644E	3/4"x16UNF	Stainless steel	50840605, 50840601	4,5	107	-	24	
20860684E	7/8"x14UNF	Stainless steel	50860675	4,5	109	-	30	
20860694E	1 1/8"x12UNF	Stainless steel	50860695, 50860675	4,5	115	-	36	



Part no.	Thread	Material	Relief bores	Dimensions (mm)				Swivel nut
				A	B	C		
Swivel nut								
50840601	3/4"x16UNF	Steel	1 radial	12,2	22,5	17,5	24	
50840605	3/4"x16UNF	AISI 316	1 radial	12,2	22,5	17,5	24	
50860675	7/8"x14UNF	AISI 316	1 radial	12,2	26	20	30	
50860695	1 1/8"x12UNF	AISI 316	1 radial	16,2	35	23	36	

Part no.	Thread	Material	Relief bores	Dimensions (mm)				Tube cleaning accessories
				A	B	C		
Stop sleeve								
I.84108601E	-	Steel	-	23,7	87	-	-	

Part no.	Thread	Material	Relief bores	Dimensions (mm)				Tube cleaning accessories
				A	B	C		
Marking ring								
I.852125.1	-	Steel	-	23,3	20	-	-	
I.852125.5	-	AISI 316	-	23,3	20	-	-	

Part no.	Size (mm)	Material	Crimp ring	Relief bores	Hose protection
I.902531	ID Ø25, OD Ø31	PVC	I003335	-	
I.903037	ID Ø30, OD Ø39	PVC	-	-	
Hose protection with spiral					
I.912532	ID Ø25, OD Ø32	PVC	I003035	-	
I.913038	ID Ø30, OD Ø38	PVC	-	-	
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.903037	-	-	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.913038	-	-	9086400
with bend restrictor and securing grip	I.913240	I.9523406E	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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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)



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 2,3:1)	Burst Pressure	Bend Radius	Weight	Insert ID
7,6 mm	22,0 mm	--	3.200 bar	7.400 bar	300 mm	1,500 kg/m
0,30 inch	0,87 inch	--	46.400 psi	107.300 psi	11,81 inch	1,005 lbs/ft

Part no.	Thread	Material	Dimensions (mm)				Sleeve
			A	B	C	⌀	
10880142	-	Steel	29,7	66,8	-	-	

Part no.	Thread	Material	Nut	Dimensions (mm)				Insert
				A	B	C	⌀	
HP fitting								
40860214C	3/8"x24UNF LH	Stainless steel	-	4,5	100	20	-	
40860204C	9/16"x18UNF LH	Stainless steel	-	4,5	112	31	-	
40860104C	M14x1,5 LH	Stainless steel	-	4,5	112	24	-	

Female swivel with O-Ring								
20860224C	M24x1,5	Stainless steel	51320205, 51321206	4,5	91	-	32	

Type M female swivel								
20860644C	3/4"x16UNF	Stainless steel	50840605, 50840601	4,5	76	-	24	

Part no.	Thread	Material	Relief bores	Dimensions (mm)				Swivel nut
				A	B	C		
Swivel nut								
50840601	3/4"x16UNF	Steel	1 radial	12,2	22,5	17,5	24	
50840605	3/4"x16UNF	AISI 316	1 radial	12,2	22,5	17,5	24	
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	Relief bores	Dimensions (mm)				Tube cleaning accessories
				A	B	C		
Marking ring								
I.852630.5	-	AISI 316	-	26	20	-	-	

Part no.	Size (mm)	Material	Crimp ring	Hose protection	
Hose protection without spiral					
I.903037	ID Ø30, OD Ø39	PVC	I003941		
I.903542	ID Ø35, OD Ø42	PVC	-		
Hose protection with spiral					
I.913038	ID Ø30, OD Ø38	PVC	I004145		
I.913240	ID Ø32, OD Ø40	PVC	-		

Part no.	Material	Crimp ring	Dimensions (mm)		Bend restrictor
			Ø	Length	
PU bend restrictor					
I.9523406D	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					
9106400	600,00	800,00	20,40	20-25	
Hose securing grip long version					
910640L	600,00	1.010,00	20,40	20-25	



Accessories combinations

Without hose protection

Description	Bend restrictor	Crimp ring	Securing grips
Bend restrictor	I.9523406D	I004145	-
Securing grip	-	-	9106400
Bend restrictor and securing grip	I.9523406D	I004145	910640L

Hose protection without spiral

Description	Protection hose	Bend restrictor	Crimp ring	Securing grips
Protection hose	I.903037	-	I003941	-
with bend restrictor	I.903037	I.9523406D	I004145	-
with securing grip	I.903542	-	-	9106400
with bend restrictor and securing grip	I.903542	I.9523406D	I004145	910640L

Hose protection with spiral

Description	Protection hose	Bend restrictor	Crimp ring	Securing grips
Protection hose	I.913038	-	I004145	-
with bend restrictor	I.913240	I.9523406D	I004145	-
with securing grip	I.913240	-	-	9106400
with bend restrictor and securing grip	I.913240	I.9523406D	I004145	910640L

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.