

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.

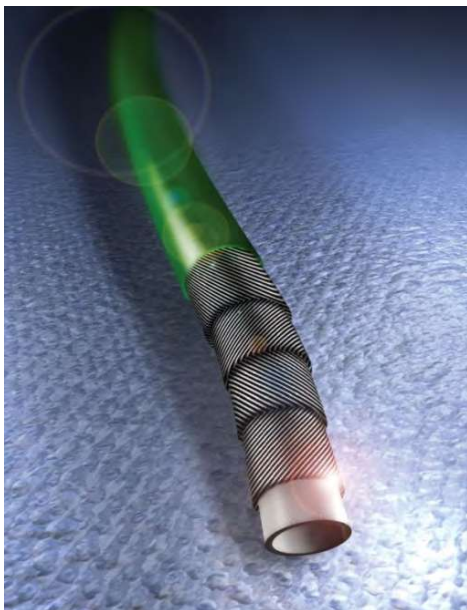
TÜV Rheinland Cert GmbH
Am Grauen Stein · 51105 Köln

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]									
ID4	<i>Heat-resisting up to 70° C (158° F)</i>																
4/2	4,0	0,16	8,0	0,31	1.200	17.400	3.000	43.500	75	2,95	0,110	0,074	2,5	0,10	10,1	0,39	Waterblast, Hydraulic
4/2H- 1400	4,0	0,16	8,1	0,32	1.400	20.300	3.500	50.750	75	2,95	0,112	0,075	2,5	0,10	10,1	0,39	Waterblast, Hydraulic
4/2K	4,0	0,16	9,8	0,39	1.200	17.400	3.000	43.500	65	2,56	0,185	0,124	2,5	0,10	13,1	0,51	Hydraulic
4/2W	4,0	0,16	9,8	0,39	1.400	20.300	3.500	50.750	65	2,56	0,160	0,107	2,5	0,10	13,0	0,51	Hydraulic
4/4	4,0	0,16	10,3	0,41	2.200	31.900	5.500	79.750	130	5,12	0,234	0,157	1,8	0,07	14,7	0,57	Waterblast, Hydraulic
4/4UHP-X-3035	4,0	0,16	9,9	0,39	3.035	44.000	6.100	88.450	90	3,54	0,234	0,157	2,5	0,10	14,7	0,58	Waterblast
4/6	4,0	0,16	11,5	0,45	2.800	40.600	7.000	101.500	175	6,89	0,365	0,245	1,8	0,07	17,1	0,67	Waterblast, Hydraulic
4/8	4,0	0,16	12,8	0,50	3.200	46.400	8.000	116.000	175	6,89	0,540	0,362	1,8	0,07	19,5	0,76	Waterblast, Hydraulic

Hose Type 4/2

42070



DuraLife Flex ®

ID4 - Series: A, X 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
4,0 mm	8,0 mm	--	1.200 bar	75 mm	0,110 kg/m	2,5 mm
0,16 inch	0,31 inch	--	17.400 psi	2,95 inch	0,074 lbs/ft	0,10 inch

Part no.	Thread	Material	Dimensions (mm)				Sleeve
			A	B	C	W	
Sleeve							
10420102	-	Steel	10	31,5	-	-	
10420105	-	AISI 316	10	34	-	-	

Part no.	Thread	Material	Hose part	Dimensions (mm)				OnePiece Fittings® WS
				A	B	C	W	
OnePiece Fittings® with wrench size								
30420451Q	1/16"x27NPTF	Steel	30420452/1Q	9,9	34	7	7	
30420461Q	1/8"x27NPTF	Steel	30420462/1Q	9,9	37	10	8	
30420601Q	5/16"x24UNF	Steel	30420452/1Q	9,9	34	7	7	

Part no.	Thread	Material	Hose part	Dimensions (mm)				OnePiece Fittings®
				A	B	C	D	
OnePiece Fittings®								
30420601X	5/16"x24UNF	Steel	30420452/1X	2,5	28	7	9,9	

Part no.	Thread	Material	Nut	Dimensions (mm)				Insert
				A	B	C	⌀	
HP fitting								
40420205A	1/4"x28UNF LH	AISI 316	-	2,5	69	14	-	
Male fitting								
30420412A	1/16"x27NPTF	Steel	-	2,5	49	8	7	
30420542A	1/8"x27NPTF	Steel	-	2,5	53	10	8	
30420422A	1/4"x18NPTF	Steel	-	2,5	57	14	11	
30420302A	G1/8"	Steel	-	2,5	53	12	9	
30420322A	G1/4"	Steel	-	2,5	55	12	11	
30420042A	M7x1	Steel	-	2,5	54	10	9	
30420052A	M8x1,25	Steel	-	2,5	54	10	9	
30420002A	M10x1	Steel	-	2,5	55	12	8	
Male fitting 100° external cone								
30420362A	G1/4"	Steel	-	2,5	60	18	17	
Male fitting for USIT® Ring								
30420352A	G1/4"	Steel	-	2,5	54,5	11	22	
Male fitting flat seal								
30420382A	G1/8"	Steel	-	2,5	55	13	9	
30420082A	M7	Steel	-	2,5	52	11	7	
Type M female swivel								
20420642A	9/16"x18UNF	Steel	50540601	2,5	48,5	-	19	
Universal female swivel 24°/60°								
20430302A	G1/4"	Steel	50540301, 50540305	2,5	48	-	19	

Part no.	Thread	Material	Nut	Dimensions (mm)				Insert
				A	B	C		
Female swivel with O-Ring								
20420042A	M24x1,5	Steel	51321206	2,5	66	-	32	

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	
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	
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								
1.84104201A	-	Steel	-	10,1	34	-	-	
1.84304201Q	-	Steel	-	9,9	25	-	-	

Part no.	Thread	Material	Relief bores	Dimensions (mm)				Marking ring
				A	B	C		
Marking ring								
1.851012.5	-	AISI 316	-	10	10	-	-	

Part no.	Material	Crimp ring	Dimensions (mm)		Bend restrictor
			Ø	Length	
Rubber bend restrictor					
1.9518400	Rubber	1003035	34	130	

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



Accessories combinations

Without hose protection

Description	Bend restrictor	Crimp ring	Securing grips
Bend restrictor	1.9518400	1003035	-
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.

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Hose Type 4/2H-I400

42H076.1400



DuraLife Flex ®

ID4 - Series: A, X 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
4,0 mm	8,1 mm	--	1.400 bar	75 mm	0,112 kg/m	2,5 mm
0,16 inch	0,32 inch	--	20.300 psi	2,95 inch	0,075 lbs/ft	0,10 inch

Part no.	Thread	Material	Dimensions (mm)				Sleeve
			A	B	C	Ø	
Sleeve							
10420102	-	Steel	10	31,5	-	-	
10420105	-	AISI 316	10	34	-	-	

Part no.	Thread	Material	Hose part	Dimensions (mm)				OnePiece Fittings® WS
				A	B	C	Ø	
OnePiece Fittings® with wrench size								
3042045IQ	1/16"x27NPTF	Steel	30420452/IQ	9,9	34	7	7	
3042046IQ	1/8"x27NPTF	Steel	30420462/IQ	9,9	37	10	8	
3042060IQ	5/16"x24UNF	Steel	30420452/IQ	9,9	34	7	7	

Part no.	Thread	Material	Hose part	Dimensions (mm)				OnePiece Fittings®
				A	B	C	D	
OnePiece Fittings®								
3042060IX	5/16"x24UNF	Steel	30420452/IX	2,5	28	7	9,9	

Part no.	Thread	Material	Nut	Dimensions (mm)				Insert
				A	B	C	W	
HP fitting								
40420205A	1/4"x28UNF LH	AISI 316	-	2,5	69	14	-	
Male fitting								
30420412A	1/16"x27NPTF	Steel	-	2,5	49	8	7	
30420542A	1/8"x27NPTF	Steel	-	2,5	53	10	8	
30420422A	1/4"x18NPTF	Steel	-	2,5	57	14	11	
30420302A	G1/8"	Steel	-	2,5	53	12	9	
30420322A	G1/4"	Steel	-	2,5	55	12	11	
30420042A	M7x1	Steel	-	2,5	54	10	9	
30420052A	M8x1,25	Steel	-	2,5	54	10	9	
30420002A	M10x1	Steel	-	2,5	55	12	8	
Male fitting 100° external cone								
30420362A	G1/4"	Steel	-	2,5	60	18	17	
Male fitting for USIT® Ring								
30420352A	G1/4"	Steel	-	2,5	54,5	11	22	
Male fitting flat seal								
30420382A	G1/8"	Steel	-	2,5	55	13	9	
30420082A	M7	Steel	-	2,5	52	11	7	
Type M female swivel								
20420642A	9/16"x18UNF	Steel	50540601	2,5	48,5	-	19	
Universal female swivel 24°/60°								
20430302A	G1/4"	Steel	50540301, 50540305	2,5	48	-	19	

Part no.	Thread	Material	Nut	Dimensions (mm)				Insert
				A	B	C		
Female swivel with O-Ring								
20420042A	M24x1,5	Steel	51321206	2,5	66	-	32	

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	
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	
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								
1.84104201A	-	Steel	-	10,1	34	-	-	
1.84304201Q	-	Steel	-	9,9	25	-	-	

Part no.	Thread	Material	Relief bores	Dimensions (mm)				Marking ring
				A	B	C		
Marking ring								
1.851012.5	-	AISI 316	-	10,1	10	-	-	

Part no.	Material	Crimp ring	Dimensions (mm)		Bend restrictor
			Ø	Length	
Rubber bend restrictor					
1.9518400	Rubber	1003035	34	130	

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



Accessories combinations

Without hose protection

Description	Bend restrictor	Crimp ring	Securing grips
Bend restrictor	1.9518400	1003035	-
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.

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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)

Technical Information

Inner Core: Polyamide (PA)
Pressure Support: 2 layers of high-tensile steel wire
 1 braided layer of steel wire
Outer Cover: Polyurethane (TPU)
Color: Black
Temperature: -30°C to +60°C [-22°F to 140°F]



Ø ID	Ø OD	Working Pressure -- (SF 2.5:1)	Burst Pressure	Bend Radius	Weight	Insert ID
4,0 mm	9,8 mm	--	1.200 bar	65 mm	0,185 kg/m	2,5 mm
0,16 inch	0,39 inch	--	17.400 psi	2,56 inch	0,124 lbs/ft	0,10 inch

Part no.	Thread	Material	Dimensions (mm)				Sleeve
			A	B	C	⌀	
Sleeve							
10430101	-	Steel	13,1	33,2	-	-	
10430105	-	AISI 316	13,1	32,7	-	-	

Part no.	Thread	Material	Nut	Dimensions (mm)				Insert
				A	B	C	⌀	
HP fitting								
40420205A	1/4"x28UNF LH	AISI 316	-	2,5	69	14	-	

Male fitting								
Part no.	Thread	Material	Nut	A	B	C	⌀	
30420412A	1/16"x27NPTF	Steel	-	2,5	49	8	7	
30420542A	1/8"x27NPTF	Steel	-	2,5	53	10	8	
30420422A	1/4"x18NPTF	Steel	-	2,5	57	14	11	
30420302A	G1/8"	Steel	-	2,5	53	12	9	
30420322A	G1/4"	Steel	-	2,5	55	12	11	
30420042A	M7x1	Steel	-	2,5	54	10	9	
30420052A	M8x1,25	Steel	-	2,5	54	10	9	
30420002A	M10x1	Steel	-	2,5	55	12	8	

Part no.	Thread	Material	Nut	Dimensions (mm)				Insert
				A	B	C	⌀	
Male fitting 100° external cone								
30420362A	G1/4"	Steel	-	2,5	60	18	17	
Male fitting for USIT® Ring								
30420352A	G1/4"	Steel	-	2,5	54,5	11	22	
Male fitting flat seal								
30420382A	G1/8"	Steel	-	2,5	55	13	9	
30420082A	M7	Steel	-	2,5	52	11	7	
Universal female swivel 24°/60°								
20430302A	G1/4"	Steel	50540301, 50540305	2,5	48	-	19	
Female swivel with O-Ring								
20420042A	M24x1,5	Steel	51321206	2,5	66	-	32	
Type M female swivel								
20420642A	9/16"x18UNF	Steel	50540601	2,5	48,5	-	19	
Swivel nut								
50540601	9/16"x18UNF	Steel	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	
51321206	M24x1,5	Steel	2 axial	16,8	23	16	32	
51320205	M24x1,5	AISI 316	1 radial	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)



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
4,0 mm	9,8 mm	--	1.400 bar	65 mm	0,160 kg/m	2,5 mm
0,16 inch	0,39 inch	--	20.300 psi	2,56 inch	0,107 lbs/ft	0,10 inch


Part no.	Thread	Material	Dimensions (mm)				⚙	Sleeve
			A	B	C			
Sleeve								
I0430101	-	Steel	13,1	33,2	-	-		
I0430105	-	AISI 316	13,1	32,7	-	-		

Part no.	Thread	Material	Nut	Dimensions (mm)				⚙	Insert
				A	B	C			
HP fitting									
40420205A	1/4"x28UNF LH	AISI 316	-	2,5	69	14	-		
Male fitting									
30420412A	1/16"x27NPTF	Steel	-	2,5	49	8	7		
30420542A	1/8"x27NPTF	Steel	-	2,5	53	10	8		
30420422A	1/4"x18NPTF	Steel	-	2,5	57	14	11		
30420302A	G1/8"	Steel	-	2,5	53	12	9		
30420322A	G1/4"	Steel	-	2,5	55	12	11		
30420042A	M7x1	Steel	-	2,5	54	10	9		
30420052A	M8x1,25	Steel	-	2,5	54	10	9		
30420002A	M10x1	Steel	-	2,5	55	12	8		
Male fitting 100° external cone									
30420362A	G1/4"	Steel	-	2,5	60	18	17		

Part no.	Thread	Material	Nut	Dimensions (mm)				Insert
				A	B	C	⌀	
Male fitting for USIT® Ring								
30420352A	G1/4"	Steel	-	2,5	54,5	11	22	
Male fitting flat seal								
30420382A	G1/8"	Steel	-	2,5	55	13	9	
30420082A	M7	Steel	-	2,5	52	11	7	
Universal female swivel 24°/60°								
20430302A	G1/4"	Steel	50540301, 50540305	2,5	48	-	19	
Female swivel with O-Ring								
20420042A	M24x1,5	Steel	51321206	2,5	66	-	32	
Type M female swivel								
20420642A	9/16"x18UNF	Steel	50540601	2,5	48,5	-	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	
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	
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.	Size (mm)	Material	Crimp ring	Hose protection
Hose protection without spiral				
I.901418	ID Ø14, OD Ø18	PVC	I001921	

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

Accessories combinations				
Without hose protection				
Description		Bend restrictor	Crimp ring	Securing grips
Bend restrictor		I.9518400	I003035	-
Hose protection without spiral				
Description	Protection hose	Bend restrictor	Crimp ring	Securing grips
Protection hose	I.901418	-	I001921	-
with bend restrictor	I.901418	I.9518400	I003035	-

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The safety factors between the burst pressure and the working pressure as well as the test pressure depend on the operating conditions. For gaseous media the outer cover is to be pinpricked.

Regarding the safety factor for gaseous media please contact your local SPIR STAR® assembling center.

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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:** 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
4,0 mm	10,3 mm	--	2.200 bar	130 mm	0,234 kg/m	1,8 mm
0,16 inch	0,41 inch	--	31.900 psi	5,12 inch	0,157 lbs/ft	0,07 inch

Part no.	Thread	Material	Dimensions (mm)				Sleeve
			A	B	C	⌀	
Sleeve							
I0440102	-	Steel	14,7	49	-	-	
I0440105	-	AISI 316	14,7	49	-	-	
Blast-Pro® sleeve							
I0440232YB	-	Steel	11,5	22			

Part no.	Thread	Material	Nut	Dimensions (mm)				Insert
				A	B	C	⌀	
HP fitting								
40460204C	1/4"x28UNF LH	Stainless steel	-	1,8	82	14	-	
40460224C	3/8"x24UNF LH	Stainless steel	-	1,8	90	20	-	
40460234C	9/16"x18UNF LH	Stainless steel	-	1,8	104	24	-	

Part no.	Thread	Material	Sleeve	Dimensions (mm)				Blast-Pro® Insert*
				A	B	C	⌀	
Blast-Pro® HP fitting								
40440214YB	1/4"x28UNF LH	Stainless steel	I0440232YB	1,8	41	16		
40440224YB	1/4"x28UNF	Stainless steel	I0440232YB	1,8	41	16	9	

Part no.	Thread	Material	Nut	Dimensions (mm)				Insert
				A	B	C		
Male fitting 60° internal cone								
30440302B	G1/8"	Steel	-	1,8	70,5	12	9	



Universal female swivel 24°/60°								
20440302B	G1/4"	Steel	50540301, 50540305	1,8	63	-	19	


Type M female swivel								
20460644C	9/16"x18UNF	Stainless steel	50560605, 50560601	1,8	63	-	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	
50540301	G1/4"	Steel	I radial	9,2	16,5	8,5	19	
50540305	G1/4"	AISI 316	I radial	9,2	16,5	8,5	19	

Part no.	Thread	Material		Dimensions (mm)				Tube cleaning accessories
				A	B	C		
Stop sleeve								
1.84104401C	-	Steel	-	14,7	48,7	-	-	

Marking ring								
1.851215.5	-	AISI 316	-	13,3	10	-	-	

Part no.	Size (mm)	Material	Crimp ring	Hose protection
Hose protection without spiral				
I.901621	ID Ø16, OD Ø21	PVC	I002224	
Hose protection with spiral				
I.912026	ID Ø19, OD Ø26	PVC	I003035	

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	

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.901621	-	-	9056400
Hose protection with spiral				
Description	Protection hose	Bend restrictor	Crimp ring	Securing grips
Protection hose	I.912026	-	I003035	-
with securing grip	I.912026	-	-	9056400

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

The safety factors between the burst pressure and the working pressure as well as the test pressure depend on the operating conditions. For gaseous media the outer cover is to be pinpricked.

Regarding the safety factor for gaseous media please contact your local SPIR STAR® assembling center.

The indicated working pressure refers to the hose only. Depending on the used fitting the permitted working pressure of a hose assembly may be less.

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Hose Type 4/4UHP-X-3035

44UHP075-X.3035



DuraLife Flex ®

ID4 - Series: E and YE

Applications

Waterblast: Heat exchanger tube cleaning

Technical Information

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



Ø ID	Ø OD	Working Pressure -- (SF 2,0:1)	Burst Pressure	Bend Radius	Weight	Insert ID
4,0 mm	9,9 mm	--	3.035 bar	90 mm	0,234 kg/m	2,5 mm
0,16 inch	0,39 inch	--	44.000 psi	3,54 inch	0,157 lbs/ft	0,10 inch

Part no.	Thread	Material	Dimensions (mm)				Sleeve
			A	B	C	⌀	
Sleeve							
I0440102	-	Steel	14,7	49	-	-	
Blast-Pro® sleeve							
I0460104YE	-	Stainless steel	11,3	19,5	-	-	

Part no.	Thread	Material	Nut	Dimensions (mm)				Insert
				A	B	C	⌀	
HP fitting								
40460214E	1/4"x28UNF LH	Stainless steel	-	2,5	80	14,3	-	
40460204E	3/8"x24UNF LH	Stainless steel	-	2,5	90	20	-	

Part no.	Thread	Material	Sleeve	Dimensions (mm)				Blast-Pro® Insert*
				A	B	C	⌀	
Blast-Pro® HP fitting								
40460204YE	1/4"x28UNF LH	Stainless steel	I0460104YE	2,5	41	16	9	
40460214YE	1/4"x28UNF	Stainless steel	I0460104YE	2,5	41	16	9	
40460224YE	3/8"x24UNF LH	Stainless steel	I0460104YE	2,5	47	22	10	
40460234YE	3/8"x24UNF	Stainless steel	I0460104YE	2,5	47	22	10	

Part no.	Thread	Material	Nut	Dimensions (mm)				Insert
				A	B	C	Ø	
Type M female swivel								
20460604E	9/16"x18UNF	Stainless steel	50560605, 50560601	2,5	63	-	22	

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

Part no.	Thread	Material	Dimensions (mm)				Tube cleaning accessories	
			A	B	C	Ø		
Stop sleeve								
I.8410440IE	-	Steel	-	14,7	49	-	-	
I.8410460IYE	-	Steel	-	11,3	19,5	-	-	

Part no.	Thread	Material	Dimensions (mm)				Marking ring	
			A	B	C	Ø		
Marking ring								
I.851215.5	-	AISI 316	-	12,9	10	-	-	

Part no.	Size (mm)	Material	Crimp ring	Hose protection
I.901621	ID Ø16, OD Ø21	PVC	I002224	
Hose protection with spiral				
I.912026	ID Ø19, OD Ø26	PVC	I003035	

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.901621	-	-	9056400
Hose protection with spiral				
Description	Protection hose	Bend restrictor	Crimp ring	Securing grips
Protection hose	I.912026	-	I003035	-
with securing grip	I.912026	-	-	9056400

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

The safety factors between the burst pressure and the working pressure as well as the test pressure depend on the operating conditions. For gaseous media the outer cover is to be pinpricked.

Regarding the safety factor for gaseous media please contact your local SPIR STAR® assembling center.

The indicated working pressure refers to the hose only. Depending on the used fitting the permitted working pressure of a hose assembly may be less.

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Applications

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

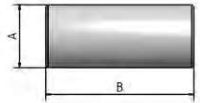
Hydraulics: Bolt tensioning, pressure test equipment (valves, tooling and control panels), hydraulic tools (instrumentation packages for gauges, control of service equipment, hydraulic jacks, hydraulic tools)

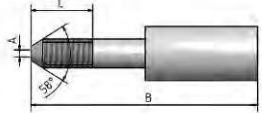


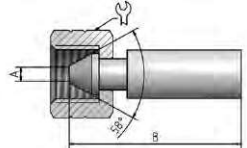
Technical Information

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
4,0 mm	11,5 mm	--	2.800 bar	175 mm	0,365 kg/m	1,8 mm
0,16 inch	0,45 inch	--	40.600 psi	6,89 inch	0,245 lbs/ft	0,07 inch

Part no.	Thread	Material	Dimensions (mm)				Sleeve
			A	B	C	⚙	
Sleeve							
10460102	-	Steel	17,1	48,9	-	-	

Part no.	Thread	Material	Nut	Dimensions (mm)				Insert
				A	B	C	⚙	
HP fitting								
40460204C	1/4"x28UNF LH	Stainless steel	-	1,8	82	14	-	
40460224C	3/8"x24UNF LH	Stainless steel	-	1,8	90	20	-	
40460234C	9/16"x18UNF LH	Stainless steel	-	1,8	104	24	-	

Type M female swivel								
Part no.	Thread	Material	Nut	A	B	C	⚙	
20460644C	9/16"x18UNF	Stainless steel	50560605, 50560601	1,8	63	-	22	

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

Part no.	Thread	Material	Relief bores	Dimensions (mm)				Tube cleaning accessories
				A	B	C		
Stop sleeve								
1.84104601C	-	Steel	-	17,1	49	-	-	
Marking ring								
1.851316.5	-	AISI 316	-	14,5	10	-	-	

Part no.	Size (mm)	Material	Crimp ring	Hose protection
Hose protection without spiral				
1.901822	ID Ø18, OD Ø22	PVC	I002426	
Hose protection with spiral				
1.912026	ID Ø19, OD Ø26	PVC	I003035	

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	

Accessories combinations

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

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

The safety factors between the burst pressure and the working pressure as well as the test pressure depend on the operating conditions. For gaseous media the outer cover is to be pinpricked.

Regarding the safety factor for gaseous media please contact your local SPIR STAR® assembling center.

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Applications

- Waterblast:** Surface preparation (concrete removal, surface cleaning of buildings, paint removal), ultra high-pressure waterjet cutting and hydro demolition (cutting and demolition of armoured concrete, pipelines, paper or steel)
- Hydraulics:** Pressure test equipment (valves, tooling and control panels), hydraulic tools (instrumentation packages for gauges, control of service equipment, hydraulic jacks, hydraulic tools), 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 2,5:1)	Burst Pressure	Bend Radius	Weight	Insert ID
4,0 mm	12,8 mm	--	3.200 bar	175 mm	0,540 kg/m	1,8 mm
0,16 inch	0,50 inch	--	46.400 psi	6,89 inch	0,362 lbs/ft	0,07 inch


Part no.	Thread	Material	Dimensions (mm)				Sleeve
			A	B	C	⚙	
Sleeve							
10480102	-	Steel	19,5	48,4	-	-	



Part no.	Thread	Material	Nut	Dimensions (mm)				Insert
				A	B	C	⚙	
HP fitting								
40460204C	1/4"x28UNF LH	Stainless steel	-	1,8	82	14	-	
40460224C	3/8"x24UNF LH	Stainless steel	-	1,8	90	20	-	
40460234C	9/16"x18UNF LH	Stainless steel	-	1,8	104	24	-	

Type M female swivel								
20460644C	9/16"x18UNF	Stainless steel	50560605, 50560601	1,8	63	-	22	

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

Part no.	Size (mm)	Material	Crimp ring	Hose protection
Hose protection without spiral				
I.902228	ID Ø22, OD Ø28	PVC	-	
I.902026	ID Ø20, OD Ø26	PVC	I002729	
I.902531	ID Ø25, OD Ø31	PVC	-	
Hose protection with spiral				
I.912532	ID Ø25, OD Ø32	PVC	-	
I.912026	ID Ø19, OD Ø26	PVC	I003035	

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.95I8306B	I003035	-
Securing grip	-	-	9056400
Bend restrictor and securing grip	I.95I8306B	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.95I8306B	I003035	-
with securing grip	I.902228	-	-	9056400
with bend restrictor and securing grip	I.902531	I.95I8306B	I003035	905640L

Hose protection with spiral

Description	Protection hose	Bend restrictor	Crimp ring	Securing grips
Protection hose	I.9I2026	-	I003035	-
with bend restrictor	I.9I2532	I.95I8306B	I003035	-
with securing grip	I.9I2026	-	-	9056400
with bend restrictor and securing grip	I.9I2532	I.95I8306B	I003035	905640L

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