

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.

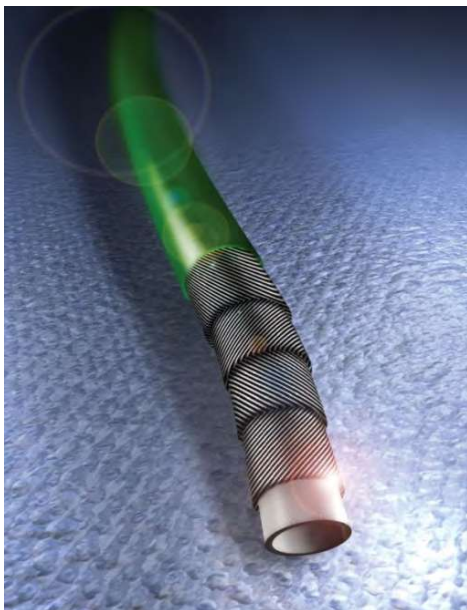
TÜV Rheinland Cert GmbH
Am Grauen Stein · 51105 Köln

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]									
HW-Series	<i>Heat-resisting up to 100° C (210° F)</i>																
8/4HW- 1000	8,0	0,31	14,6	0,57	1.000	14.500	3.800	55.100	200	7,87	0,39	0,261	4,5	0,18	20,3	0,79	Waterblast

Hose Type 8/4HW-1000

84HW001.1000

SPIR STAR®

ID8 - Series: HW

Applications

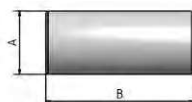
Waterblast: Heat exchanger tube cleaning, surface preparation (concrete removal, surface cleaning of buildings, paint removal), tank and vessel cleaning

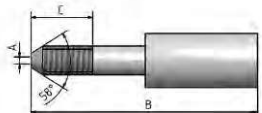
Technical Information

Inner Core: Polyoxymethylene (POM)
Pressure Support: 4 layers of high-tensile steel wire
Outer Cover: Polyamide (PA)
Color: Blue
Temperature: -30°C to +100°C [-22°F to 210°F]

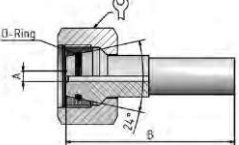


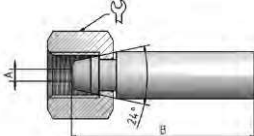
Ø ID	Ø OD	Working Pressure -- (SF 3,8:1)	Burst Pressure	Bend Radius	Weight	Insert ID
8,0 mm	14,6 mm	--	1.000 bar	200 mm	0,390 kg/m	4,5 mm
0,31 inch	0,57 inch	--	14.500 psi	7,87 inch	0,261 lbs/ft	0,18 inch


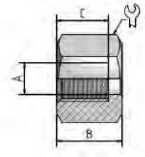
Part no.	Thread	Material	Dimensions (mm)				Sleeve
			A	B	C	⌀	
Sleeve							
10840102HW	-	Steel	20,2	58	-	-	



Part no.	Thread	Material	Nut	Dimensions (mm)				Insert
				A	B	C	⌀	
HP fitting								
40840204HW	9/16"x18UNF LH	Stainless steel		4,5	112	23,8		


Part no.	Thread	Material	Nut	Dimensions (mm)				Insert
				A	B	C	⌀	
Male fitting flat seal								
30840304HW	G1/4"	Stainless steel		4,5	85	15	12	



Part no.	Thread	Material	Nut	Dimensions (mm)				Insert
				A	B	C	⌀	
Female swivel with O-Ring								
20840204HW	M22x1,5	Stainless steel	51060201, 51060205	4,5	83	-	30	
20840224HW	M24x1,5	Stainless steel	51321206	4,5	91	-	32	

Part no.	Thread	Material	Nut	Dimensions (mm)				Insert
				A	B	C	⌀	
Universal female swivel 24°/60° heavy								
20840304HW	G3/8"	Stainless steel	50840305, 50860301	4,5	76		24	

Part no.	Thread	Material	Relief bores	Dimensions (mm)				Swivel nut
				A	B	C		
Swivel nut								
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	
51060201	M22x1,5	Steel	2 axial	14,2	23	14	30	
51060205	M22x1,5	AISI 316	2 axial	14,2	25	14	30	
51321206	M24x1,5	Steel	2 axial	16,8	23	16	32	

Part no.	Size (mm)	Material	Crimp ring	Dimensions (mm)		Hose protection
				Ø	Length	
Hose protection without spiral						
1.902228	ID Ø22, OD Ø28	PVC	I002830			
Hose protection with spiral						
1.912229	ID Ø22, OD Ø35	PVC	I003035			

Part no.	Material	Crimp ring	Dimensions (mm)		Bend restrictor
			Ø	Length	
Rubber bend restrictor					
1.9518100	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
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

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.