

# 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.

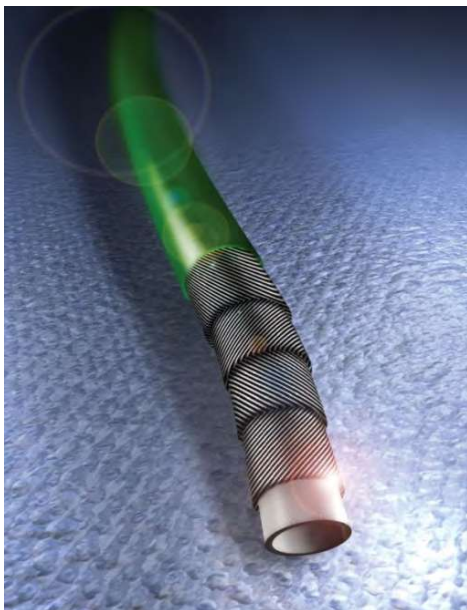
TÜV Rheinland Cert GmbH  
Am Grauen Stein · 51105 Köln

Number of spiralized layers

Type **6/2WHT**

Series Description

Hose ID in mm



Hose Series	
<b>DCI</b>	Double Cover
<b>H</b>	Reinforced version
<b>HT</b>	For very high temperatures Very high chemical resistant PVDF inner core, PVDF outer cover
<b>HW</b>	Hot Water: for very high temperatures
<b>K</b>	Braided layer
<b>L</b>	Extremely flexible
<b>M</b>	For methanol service PA II inner core, PA outer cover
<b>OK</b>	Braided layer outer cover
<b>PPA</b>	For high temperatures Very high chemical resistant PVDF inner core, PA outer cover
<b>R</b>	Reinforced outer cover
<b>W</b>	2 wide layers of spiralized wire
<b>KF</b>	One braided layer

# Hose Types



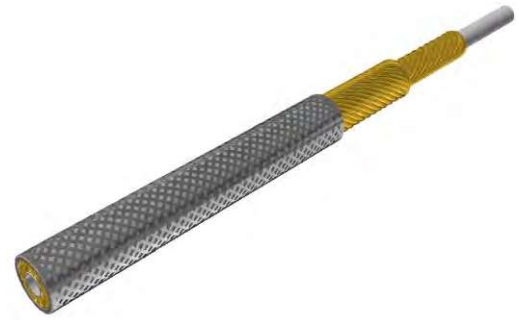
Type	Hose				Pressure Rating				Bend Radius		Weight		Insert ID		Sleeve OD		Application
	ID		OD		Working		Burst		[mm]	[in]	[kg/m]	[lbs/ft]	[mm]	[in]	[mm]	[in]	
	[mm]	[in]	[mm]	[in]	[bar]	[psi]	[bar]	[psi]									
<b>KF-Series</b>																	
<i>Heat-resisting up to 200° C (392° F)</i>																	
6/2KF	6,0	0,24	11,0	0,43	500	7.250	2.000	29.000	60	2,36	0,262	0,176	4,0	0,16	13,7	0,54	Automotive
8/2KF	7,8	0,31	13,3	0,52	475	6.888	1.900	27.550	85	3,35	0,345	0,231	5,5	0,22	15,4	0,61	Automotive
10/2KF	9,8	0,39	15,5	0,61	475	6.888	1.900	27.550	110	4,33	0,442	0,296	7,0	0,28	19,2	0,76	Automotive
13/2KF	12,2	0,48	18,6	0,73	450	6.525	1.800	26.100	150	5,91	0,600	0,402	10,0	0,39	22,0	0,87	Automotive
16/2KF	15,1	0,59	21,4	0,84	400	5.800	1.600	23.200	175	6,89	0,700	0,469	13,0	0,51	25,1	0,99	Automotive
20/2KF	20,2	0,80	27,6	1,09	300	4.350	1.200	17.400	200	7,87	1,055	0,707	15,0	0,59	31,3	1,23	Automotive
25/2KF	24,2	0,95	31,7	1,25	275	3.988	1.100	15.950	240	9,45	1,205	0,807	19,0	0,77	46,0	1,42	Automotive
32/2KF	31,9	0,95	39,3	1,25	250	3.325	1.100	14.500	280	11,02	1,560	1,048	27,0	1,06	46,0	1,81	Automotive

**Applications**

**Automotive:** Hot glue dispensing, Petrochemicals, Plant engineering and construction, Foaming technology, Transfer hose

**Technical Information**

**Inner Core:** Polytetrafluorethylene (PTFE)  
**Pressure Support:** 2 layers of high-tensile steel wire  
**Outer Cover:** 1 braided layer of galvanized steel wire  
**Color:** -  
**Temperature:** -70°C to +200°C [-94°F to 392°F]



Ø ID	Ø OD	Working Pressure	Burst Pressure	Bend Radius	Weight	Insert ID
6,0 mm	11,0 mm	-- (SF 4,0:1)	500 bar	60 mm	0,262 kg/m	4,0 mm
0,24 inch	0,43 inch	--	7.250 psi	2,36 inch	0,176 lbs/ft	0,16 inch

Part no.	Thread	Material	Dimensions (mm)				Sleeve
			A	B	C		
<b>Sleeve</b>							
I063010IKF	-	Steel	13,7	28	-	-	
I0630103KF	-	Stainless steel	13,7	28	-	-	

Part no.	Thread	Material	Nut	Dimensions (mm)				Insert
				A	B	C		
<b>Universal female swivel 24°/60° with wrench flat</b>								
6063020IF	M18x1,5	Steel	incl.	4,5	43,5	22		
6063030IF	G1/4"	Steel	incl.	4,5	40,2	17		

**Important Information!**

- If used as a steam hose the max. working pressure is 203 psi (14bar) and the max. temperature is +482°F (+250°C).
- The burst and working pressure applies to working temperatures from +20°C to +50°C.  
 Temperature correction factors: (up to 20°C/1,0), (up to 100°C/0,95), (up to 150°C/0,90), (up to 200°C/0,83).
- With dynamic stress, the bend radius should at least be doubled. The radius should be adjusted to the conditions.  
 KF hoses are intended for being used as basic hoses for heating hose systems. They do not have an outer cover, and the wires are not protected against corrosion. It is not allowed to use these hoses in a "normal" hose assembly without taking the right steps to prevent the corrosion of the wires because there exists the risk of injury as well as the possibility of the failure of the hose assembly. KF hoses are available as a special execution with a plastic outer cover or wires made of stainless steel. For further information, please contact our SPIR STAR sales personnel.

Production related variations of the burst pressure of up to 5 % are possible.  
 The safety factors between the burst pressure and the working pressure as well as the test pressure depend on the operating conditions.  
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Ø ID	Ø OD	Working Pressure	Burst Pressure	Bend Radius	Weight	Insert ID
7,8 mm	13,3 mm	-- (SF 4,0:1)	475 bar	85 mm	0,345 kg/m	6,0 mm
0,31 inch	0,52 inch	--	6.888 psi	3,35 inch	0,231 lbs/ft	0,24 inch

Part no.	Thread	Material	Dimensions (mm)				Sleeve
			A	B	C		
<b>Sleeve</b>							
I083010IKF	-	Steel	15,4	30	-	-	
I0830103KF	-	Stainless steel	15,4	30	-	-	

Part no.	Thread	Material	Nut	Dimensions (mm)				Insert
				A	B	C		
<b>Universal female swivel 24°/60° with wrench flat</b>								
6083020IF	M20x1,5	Steel	incl.	6	46,8	-	24	
6083030IF	G3/8"	Steel	incl.	6	43,9	-	9	

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Ø ID	Ø OD	Working Pressure	Burst Pressure	Bend Radius	Weight	Insert ID
9,8 mm	15,5 mm	-- (SF 4,0:1)	475 bar	110 mm	0,442 kg/m	7,5 mm
0,39 inch	0,61 inch	--	6.888 psi	4,33 inch	0,296 lbs/ft	0,30 inch

Part no.	Thread	Material	Dimensions (mm)				Sleeve
			A	B	C		
<b>Sleeve</b>							
I103010IKF	-	Steel	19,2	37	-	-	
I1030103KF	-	Stainless steel	19,2	37	-	-	

Part no.	Thread	Material	Nut	Dimensions (mm)				Insert
				A	B	C		
<b>Universal female swivel 24°/60° with wrench flat</b>								
6103030IF	G1/2"	Steel	incl.	7,5	55,2	-	13	
6103031IF	G3/8"	Steel	incl.	7,5	51,1	-	11	

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Ø ID	Ø OD	Working Pressure	Burst Pressure	Bend Radius	Weight	Insert ID
12,2 mm	18,6 mm	-- (SF 4,0:1)	450 bar	150 mm	0,600 kg/m	10,0 mm
0,48 inch	0,73 inch	--	6.525 psi	5,91 inch	0,402 lbs/ft	0,39 inch

Part no.	Thread	Material	Dimensions (mm)			⚙️	Sleeve
			A	B	C		
I133010IKF	-	Steel	22	37	-	-	
I1330103KF	-	Stainless steel	22	37	-	-	

Part no.	Thread	Material	Nut	Dimensions (mm)			⚙️	Insert
				A	B	C		
<b>Universal female swivel 24°/60° with wrench flat</b>								
6133020IF	M24x1,5	Steel	incl.	10	56,2	-	30	
61330205F	M24x1,5	AISI 316	incl.	10	56,2	-	30	
6133030IF	G1/2"	Steel	incl.	10	55,2	-	27	

Part no.	Thread	Material	Nut	Dimensions (mm)				Insert
				A	B	C		
<b>Female swivel with O-Ring with wrench flat</b>								
61330211F	M24x1,5	Steel	incl.	10	60,5	-	30	

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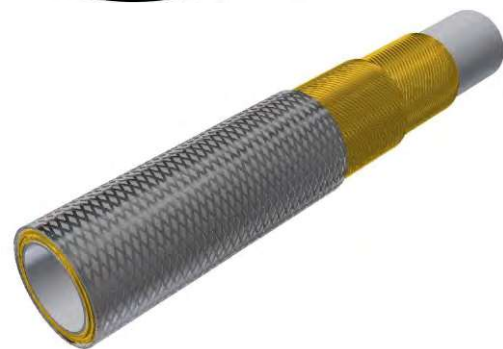


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Ø ID	Ø OD	Working Pressure	Burst Pressure	Bend Radius	Weight	Insert ID
15,1 mm	21,4 mm	-- (SF 4,0:1)	400 bar	175 mm	0,700 kg/m	12,5 mm
0,59 inch	0,84 inch	--	5.800 psi	6,89 inch	0,469 lbs/ft	0,49 inch

Part no.	Thread	Material	Dimensions (mm)			⚙️	Sleeve
			A	B	C		
I163010IKF	-	Steel	25,1	46	-	-	
I1630103KF	-	Stainless steel	25,1	46	-	-	

Part no.	Thread	Material	Nut	Dimensions (mm)			⚙️	Insert
				A	B	C		
<b>Universal female swivel 24°/60° with wrench flat</b>								
6163020IF	M30x2	Steel	incl.	12,5	66,5	-	36	
61630205F	M30x2	AISI 316	incl.	12,5	66,5	-	36	
6163030IF	G3/4"	Steel	incl.	12,5	65,6	-	17	

Part no.	Thread	Material	Nut	Dimensions (mm)				Insert
				A	B	C		
<b>Female swivel with O-Ring with wrench flat</b>								
61630221F	M30x2	Steel	incl.	12,5	71	-	17	

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Ø ID	Ø OD	Working Pressure	Burst Pressure	Bend Radius	Weight	Insert ID
20,2 mm	27,6 mm	-- (SF 4,0:1)	300 bar	200 mm	1,055 kg/m	15,0 mm
0,80 inch	1,09 inch	--	4.350 psi	7,87 inch	0,707 lbs/ft	0,59 inch

Part no.	Thread	Material	Dimensions (mm)				Sleeve
			A	B	C		
I203010IKF	-	Steel	31,3	53	-	-	
I2030103KF	-	Stainless steel	31,3	53	-	-	

Part no.	Thread	Material	Nut	Dimensions (mm)				Insert
				A	B	C		
<b>Universal female swivel 24°/60° with wrench flat</b>								
6203020IF	M36x2	Steel	incl.	15	76	-	21	
6203030IF	G1"	Steel	incl.	15	74,5	-	21	

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Ø ID	Ø OD	Working Pressure	Burst Pressure	Bend Radius	Weight	Insert ID
24,2 mm	31,7 mm	-- (SF 4,0:1)	275 bar	1.100 bar	240 mm	1,205 kg/m
0,95 inch	1,25 inch	--	3.988 psi	15.950 psi	9,45 inch	0,807 lbs/ft

Part no.	Thread	Material	Dimensions (mm)			⚙️	Sleeve
			A	B	C		
<b>Sleeve</b>							
1253010IKF	-	Steel	36,1	64	-	-	
12530103KF	-	Stainless steel	36,1	64	-	-	

Part no.	Thread	Material	Nut	Dimensions (mm)			⚙️	Insert
				A	B	C		
<b>Universal female swivel 24°/60° with wrench flat</b>								
6253020IF	M42x2	Steel	incl.	19	89,5	25		
62530205F	M42x2	AISI 316	incl.	19	89,5	25		
6253030IF	G1 1/4"	Steel	incl.	19	90,7	25		

Part no.	Thread	Material	Nut	Dimensions (mm)			Insert
				A	B	C	
<b>Female swivel with O-Ring with wrench flat</b>							
62530221F	M42x2	Steel	incl.	19	101,5	25	

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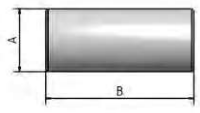
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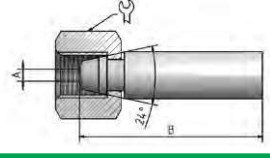
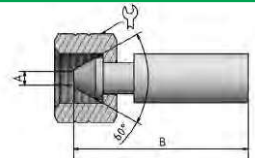
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Ø ID	Ø OD	Working Pressure	Burst Pressure	Bend Radius	Weight	Insert ID
31,9 mm	39,3 mm	-- (SF 4,0:1)	1.000 bar	280 mm	1,560 kg/m	27,0 mm
0,95 inch	1,25 inch	--	14.500 psi	11,02 inch	1,048 lbs/ft	1,06 inch

Part no.	Thread	Material	Dimensions (mm)			⚙️	Sleeve
			A	B	C		
I323030IKF		Steel	46	64			

Part no.	Thread	Material	Nut	Dimensions (mm)			⚙️	Insert
				A	B	C		
<b>Female swivel 24° heavy</b>								
6323020IKF	M52x2	Steel	incl.	26	101,5	-	60	
<b>BSP female swivel 60°</b>								
6323030IKF	GI 1/4"	Steel	incl.	26	99,5	-	50	

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- If used as a steam hose the max. working pressure is 203 psi (14bar) and the max. temperature is +482°F (+250°C).
- The burst and working pressure applies to working temperatures from +20°C to +50°C.  
 Temperature correction factors: (up to 20°C/1,0), (up to 100°C/0,95), (up to 150°C/0,90), (up to 200°C/0,83).
- With dynamic stress, the bend radius should at least be doubled. The radius should be adjusted to the conditions.  
 KF hoses are intended for being used as basic hoses for heating hose systems. They do not have an outer cover, and the wires are not protected against corrosion. It is not allowed to use these hoses in a "normal" hose assembly without taking the right steps to prevent the corrosion of the wires because there exists the risk of injury as well as the possibility of the failure of the hose assembly. KF hoses are available as a special execution with a plastic outer cover or wires made of stainless steel. For further information, please contact our SPIR STAR sales personnel.

*Production related variations of the burst pressure of up to 5 % are possible.  
 The safety factors between the burst pressure and the working pressure as well as the test pressure depend on the operating conditions.  
 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.  
 We reserve our rights for technical changes without notice. Subject to printing errors.*