

Hose assemblies are stressed by frequent and severe bending whilst in daily operation. The main bending area is at the joint end. The use of anti-kinking spirals '**KSS**' protects the hose assemblies from kinking – and extends the service life without restricting hose flexibility.

### ANTI-KINKING SPIRALS 'KSS'

'**KSS**' of black HDPE material can be used with all Elaflex rubber hoses – as well as universal hoses with thermo-plastic linings such as types UTS/UTD, FEP and PTFE.

The anti-kinking spiral is attached with Spannloc clamps '**SC...KSS**' of stainless steel. It can be combined with all kinds of hose tails.

Self-assembling is possible.



**KSS**

Version for Chemical and Universal Hoses

FOR HOSE SIZE		WEIGHT	MATERIAL	PART NUMBER	WEIGHT	LENGTH*)	MATERIAL	PART NUMBER
ID in.	ID mm	Ø kg		Spannloc Special Clamps (2 pc. incl. bolts/nuts)	Ø kg	Ø mm		Anti-Kinking Spiral
3/4"	19	0,36	Stainless Steel AISI 316 Bolts + Nuts Stainless Steel AISI 316	SC 19-KSS	0,09	300	HDPE black good fracture strain properties / resistant to weathering	KSS 19
1"	25	0,39		SC 25-KSS	0,10	300		KSS 25
1 1/4"	32	0,54		SC 32-KSS	0,17	350		KSS 32
1 1/2"	38	0,53		SC 38-KSS	0,17	350		KSS 38
2"	50	0,87		SC 50-KSS	0,32	350		KSS 50
2 1/2"	63	1,46		SC 63-KSS	0,49	400		KSS 63
3"	75	1,68		SC 75-KSS	0,54	400		KSS 75

### ANTI-KINKING SPIRALS 'KSS-FX'

'**KSS-FX**' of black HDPE will be used for the Fluorflex 2 FXD universal helical hose. The anti-kinking spiral is directly attached to the Standard Fluorflex clamps '**FX-SC...SS**' (stainless steel AISI 316).

The Fluorflex clamps are securely and rigidly mounted to the Fluorflex hose tail.

Self-assembling is possible.



**KSS-FX**

Version for the 'Fluorflex 2' Universal Helical Hose

FOR HOSE SIZE		WEIGHT	MATERIAL	PART NUMBER	WEIGHT	LENGTH*)	MATERIAL	PART NUMBER
ID in.	ID mm	Ø kg		Fluorflex Special Clamps (2 pc. incl. bolts/nuts)	Ø kg	Ø mm		Fluorflex 2 Anti-Kinking Spiral
3/4"	19	0,36	Stainless Steel AISI 316 Bolts + Nuts Stainless Steel AISI 316	FX-SC 20 SS	0,08	300	HDPE black good fracture strain properties / resistant to weathering	KSS-FX 20
1"	25	0,40		FX-SC 25 SS	0,10	300		KSS-FX 25
1 1/2"	40	0,62		FX-SC 40 SS	0,30	350		KSS-FX 40
2"	50	0,97		FX-SC 50 SS	0,33	350		KSS-FX 50

## ANTI-KINKING SPIRAL 'KSS-SD'

'KSS-SD' of stainless steel AISI 301 can be recommended for hot steam hose assemblies with steel braids. These hose assemblies are subject to higher wear. The main stress area for hose assemblies is also at the joint end.

The assembly is carried out with hot steam clamps such as 'SC 19x7 KSS'. Only safety fittings with collar and bolted clamps, suitable for re-tightening according to EN 14423 will be used.

Self-assembling is possible.



FOR HOSE SIZE		WEIGHT	MATERIAL	PART NUMBER	WEIGHT	LENGTH*)	MATERIAL	PART NUMBER
ID in.	ID mm	Ø kg		Steam Special Clamps (2 pc. incl. bolts/nuts)	Ø kg	Ø mm		Hot Steam Anti-Kinking Spiral
1/2"	13	0,41	Stainless Steel AISI 316  Bolts + Nuts Stainless Steel AISI 316	(SC 13 x 6 KSS)	0,28	200	Stainless steel AISI 301	(KSS-SD 13)
3/4"	19	0,51		SC 19 x 7 KSS	0,58	280		KSS-SD 19
1"	25	0,65		SC 25 x 7,5 KSS	0,56	275		KSS-SD 25

## ANTI-KINKING SPIRAL 'KSS-HB'

'KSS-HB' (stainless steel AISI 301) can be used to protect hot bitumen hoses for overextension at the highly stressed area directly behind the coupling.

The assembly is carried out with Spannloc clamps 'SC... KSS' of stainless steel. Due to the KSS-HB a longer service life of hot bitumen hoses can be achieved.

Self-assembling is possible.



FOR HOSE SIZE		WEIGHT	MATERIAL	PART NUMBER	WEIGHT	LENGTH*)	MATERIAL	PART NUMBER
ID in.	ID mm	Ø kg		Hot Bitumen Special Clamps (2 pc. incl. bolts/nuts)	Ø kg	Ø mm		Hot Bitumen Anti-Kinking Spiral
2"	50	0,87	Stainless Steel AISI 316  Bolts + Nuts Stainless Steel AISI 316	(SC 50-KSS)	1,35	350	Stainless steel AISI 301	(KSS-HB 50)
3"	75	1,62		SC 75-KSS	2,66	350		KSS-HB 75

## USE OF KSS IN EX ZONES

All anti-kinking spirals from Elaflex can be used without any problem in EX zones 1 and 2. The use of HDPE types 'KSS' and 'KSS-FX' has been confirmed by the PTB.

\*) Length of KSS in mm, e.g. 'KSS 25'

