FLEXOLINE® SAFETY CLAMPS

STANDARD

FLEXOLINE® safety clamps have been developed and manufactured in close collaboration with customers and hose manufacturers. The hose industry developed thin-wall hoses that are lighter and more flexible then ever before. The standard RK safety clamps complying with EN 14420-3 / DIN 2817 are too big for this new generation thin-wall hoses. To solve this inconvenience and for safety reasons LMC-Couplings developed FLEXOLINE® safety clamps for thin-wall rubber hoses.

OPERATION

FLEXOLINE® safety clamps are based on the shell type clamps, and are intended for use with thin-wall hoses. FLEXOLINE® safety clamps have a rim on the inside, which fits over the hose tail collar when the bolts are tightened. When FLEXOLINE® safety clamps are assembled correctly, the coupling cannot be pulled out of the hose. Another advantage of FLEXOLINE® safety clamps is that when a hose is withdrawn from service for any reason, the LMC-Couplings shells and couplings can be easily dismantled for reuse if not damaged during service.
FLEXOLINE® safety clamps can be used to replace worm drive clamps or bolt clamps in hose coupling assemblies.

APPLICATION

Assembly of thin-wall rubber hoses

WORKING PRESSURE

-0.8 bar / -11 psi up to 25 bar/360 psi

TEMPERATURE

-20°C/-4 °F to + 65°C/149°F
Hose, coupling, assembly method and seal must be chosen in relation with the desired application and temperature.

MATERIAL

- FLEXOLINE® safety clamp shells

Forged aluminium	USA	ASTM B247, grade 6061-T6
	Germany	DIN 1749 grade AlMgSi1 F28 work stock No. 3.2315.61
	UK	BS 1472 HE 20 Grade 6061
Cast stainless steel	USA	ASTM A666 grade 316 stainless steel
	Germany	DIN 17440 grade1.4401 X5CrNiMo1810
	UK	BS 316 S16

- Nuts and bolts

Aluminium FLEXOLINE® safety clamps:	bolts complying with EN ISO 4762 / DIN 912, zinc plated 10.9 nuts complying with EN ISO 4032 / DIN 934, zinc plated 10.9

FLEXOLINE® safety clamps are supplied complete with nuts and bolts.

ASSEMBLY

See chapter E for assembly instructions on smooth hose shank couplings.

FLEXOLINE® SAFETY CLAMPS: ALUMINIUM

ND	For hose	OD hose min-max	Dimensions		Nuts and bolts		Weight/pc	Reference
			Height	Width	Quantity	Thread metric		
	mm	mm	mm	mm			Kg	
25	25 x 5.0	34 - 36	50	69	4	M6	0.19	FRK025005
32	32 x 5.0	41 - 43	50	76	4	M6	0.28	FRK032005
40	38 x 5.0	47 - 49	50	83	4	M6	0.28	FRK038005
50	50 x 5.0	59 - 61	56	96	4	M8	0.38	FRK050005
65	63 x 6.0	74 - 76	74	117	4	M8	0.53	FRK063006
80	75 x 6.0	86 - 88	76	128	4	M8	0.58	FRK075006
100	100 x 6.5	112 - 114	120	166	4	M10	1.16	FRK100065

Production method: forging
Set of FLEXOLINE® safety clamps = one pair of clamps, nuts and bolts included
Bolts: DIN 912 / EN ISO 4762, zinc plated 10.9
Nuts: DIN 934 / EN ISO 4032, zinc plated 10.9

FLEXOLINE® SAFETY CLAMPS: STAINLESS STEEL

ND	For hose	OD hose min-max	Dimensions		Nuts and bolts		Weight/pc	Reference
			Height	Width	Quantity	Thread metric		
	mm	mm	mm	mm			Kg	
50	50 x 5.5	60 - 62	56	96	4	M8	0.38	FRKR050005
65	63 x 6.0	74 - 76	74	117	4	M8	0.53	FRKR063006
80	75 x 6.5	87 - 89	76	128	4	M8	0.58	FRKR075006

Production method: investment casting
Set of FLEXOLINE® safety clamps = one pair of clamps, nuts and bolts included
Bolts: DIN 912 / EN ISO 4762, stainless steel A.2 class 70
Nuts: DIN 934 / EN ISO 4032, stainless steel A.2 class 70