

PRODUCT INFORMATIONEN

COMPLEMENTARY EQUIPMENT Mooring/towing accessories

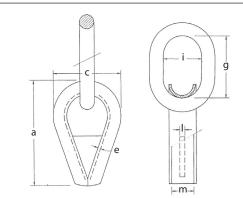
Rudolf Seldis GmbH & Co. KG . Martin-Luther-Straße 20 . 20459 Hamburg . Germany Tel: +49 (0)40 37 49 49 0 . Fax: +49 (0)40 365 178 . seldis@seldis.de . www.seldis.de

Fittings mooring towing

Making the link... ... with the right connections.

Everything for heavy ropes, to safely connect them and securely fasten them at the end.





Towing thimble SEL 1079

Nominal Size	Weight	Measurements				
= Rope Circ.		а	c	e	Ι	m
~inch	kg/ea	mm	mm	mm	mm	mm
10	20	370	290	15	16	100
12	33	450	330	20	20	115
14	49	520	370	20	20	135
16	56	580	390	20	20	155
17	68	600	440	20	20	170
18	99	600	440	20	20	180
Material: RSt 37-1						

Thimble and link size can be freely combined. When choosing and combining consider the bollard pull of the tow connection and guidelines on forces and rope sizes from official tables. We will be pleased to advise.











Towing link SEL 1079

Minimum	Weight	Measur	ements
Force		g	i
kN	kg/ea	mm	mm
1400	17	350	190
1800	24	400	200
2400	32	430	230
3200	44	440	250
4000	57	450	250
5000	74	460	300
6000	102	500	300
	Breaking Force kN 1400 2400 3200 4000 5000	Breaking Force Magnet kN kg/ea 1400 17 1800 24 2400 32 3200 44 4000 57 5000 74	Breaking Force Instant kN kg/ea mm 1400 17 350 1800 24 400 2400 32 430 3200 44 440 4000 57 450 5000 74 460

Material: Grade 80 alloy steel

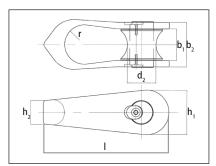
Load...

... not to breakage, but to permissible load limit only! This is significantly less than breaking force and depends on factors relevant to application (safety factor, design factor, formula). Therefore: Do not confuse breaking force with load capacity (WLL, lacking force working load etc.) and calculate in lashing force, working load, etc.) and calculate in adherence to existing rules (regulations, standards).



Slender connections... where steel and textile rope immediately feel comfortable. Snug bow, secure pin.





Fairlead shackle M

With wire rope guard roller

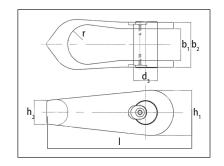
From eye to eye ... ropes, best steel with textile. Keep things slim.

Nominal Size	Minimum Breaking	Weight	Measurements						
	Force		b ₁	b ₂	d ₂	h ₁	h ₂	Ι	r
	kN	~ kg/ea	mm	mm	mm	mm	mm	mm	mm
90	1030	10	76	110	82	120	71	300	44
120	1370	16	100	140	90	130	90	335	54
185	2450	47	120	170	110	170	90	480	75

Yield force: >800N/mm², tensile strength: 950-1100N/mm², elongation: >10%, Material: E-GS 34 CrNiMo 6V/GS CrMo 4V bow, 1.4057 (mechanical values according to DIN

17440) Bolt





Fairlead shackle T

Nominal Size	Minimum Breaking	Weight	Measurements						
	Force		b ₁	b ₂	d ₃	h ₁	h ₂	Ι	r
	kN	~ kg/ea	mm	mm	mm	mm	mm	mm	mm
90	1030	9	76	110	68	120	71	300	44
120	1370	14	100	140	68	130	90	335	54
185	2450	37	120	170	90	170	90	480	75
			<u> </u>						

Yield Force: >800N/mm², Material Grade: 950-1100N/mm², Elongation: >10%, Material: E-GS 34 CrNiMo 6V/GS CrMo 4V Bow, 1.4057 (mechanical values according to DIN 17440) Bolt

... Or adapted, whatever your needs. Like here, for example, from eye to socket. The perfect match, flush fit. ...



Coupling link BTG

Same parameters as Fairlead shackle. Configuration adapted to each end fitting. Here: Loop of a textile rope stretcher connected with the closed spelter socket of the steel tow rope



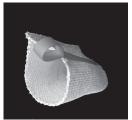
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...or simply a roller shackle, to connect fibre rope eye with steel rope, rope socket or thimble.



Worth protecting ... Ropes made from synthetic materials certainly are! Especially when their path takes them over rough or sharp terrain.

For extreme cases we have jackets and sleeves for textile ropes made from wear resistant fabric.





DeltaWeb Sturdy, abrasion resistant polyester fabric



DeltaLace Cord sleeve for strong and effective wear protection



Good guidance ... is needed to maximise safety when steel rope is used. Towing sleeves help keep steel rope in check in problem areas on tugs.



Towing sleeve

one piece, attachment before fabrication Type Standard d 36 to 64mm Type Heavy Duty d 48 to 76mm Type Extra Heavy Duty d 48 to 76mm



Towing shoe

two piece, attachment after fabrication Type Standard d 44 to 76mm Type Extra Heavy Duty Plus d 60 to 90mm







provides effective protection when steel tow ropes start throwing their weight around.



