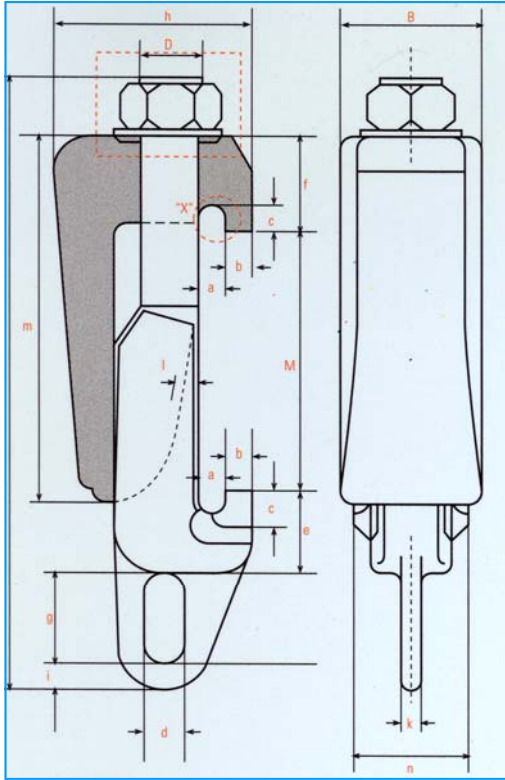




# CLAMPS FOR VESSELS AND MANWAYS

## For non glass-lined vessels

### Sizes and materials



#### Materials Of Construction:

##### Carbon Steel:

**ASTM 193 GrB7 (24CrMo5) hardened and tempered and sandblast with either self colour or passivated yellow zinc or nickel plated. Through or dome nuts.**

##### Stainless Steel:

**ASTM 193 GrB8M (316), solution treated, passivated, either as forged or with bright polish finish. Through or dome nuts.**

**All available with 3.1b certificates as standard or TUEV inspected, with surplus charge.**

**Other materials are available.**

TABLE 111

Type	Opening		Length	Width	Dimension														Wt. Kg	
	D	M			L	B	a	b	c	d	e	f	g	h	i	k	l	m		n
M10-K	13-24		83																	0.16
M10-L	22-33		94	25	4	4	4	6	13	12	15	27	5	6	5	43	20			0.18
M10-LS	70-83		122																	0.22
M12-L	40-56		133	34	4	5	4	8	18	20	16	38	6	8	6	70	30			0.50
M16-K	40-60		165																	1.13
M16-L	55-85		192	40	6	7	5	12	25	25	25	58	8	8	8	92	32			1.21
M16-L2	80-110		213																	1.28
M16-LS	95-125		234																	1.40
M20-K	50-75		195																	1.95
M20-L	65-90		212	48	10	9	8	14	30	30	30	73	8	8	10	115	42			2.00
M20-L2	90-130		252																	2.20
M24-K	65-95		230																	2.65
M24-L	90-130		265																	3.00
M24-L2	120-160		295	52	10	11	8	14	34	34	30	78	9	10	12	130	46			3.20
M24-LS	155-200		335																	3.40
M24-LX	290-330		470																	4.80
M27-K	90-110		290																	4.80
M27-L	115-145		327																	5.00
M27-L2	150-195		375	63	10	16	8	14	52	45	40	85	9	10	15	155	55			5.15
M27-L3	205-255		435																	6.15
M27-LS	340-385		565																	7.70
M27-LX	440-480		680																	9.50
M33-K	100-150		380																	9.20
M33-L	150-200		430																	10.20
M33-L2	200-250		480	75	12	20	10	24	65	60	48	104	10	12	18	205	60			10.80
M33-L3	250-300		530																	11.40
M33-LX	380-430		655																	13.50
M33-LY	510-560		810																	16.50
M56-L	200-245		523																	30.15
M56-L2	260-350		640	115	14	26	10	22	84	65	40	160	17	12	30	310	100			34.00
M56-L3	380-420		705																	110 41.30



# MAX MÜLLER AG

PROCESS ILLUMINATION AND VISUAL OBSERVATION SYSTEMS  
 UK OFFICE: 13 High Street, Epworth, Doncaster DN9 1EP  
 Tel: 01427 873216. Fax: 01427 874485.  
 e-mail: mail@maxmuller.co.uk



# CLAMPS FOR VESSELS AND MANWAYS

## For glass-lined vessels

### Sizes and materials

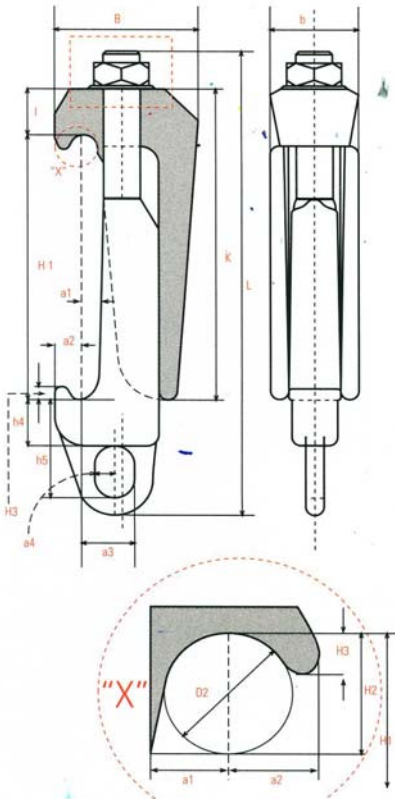


TABLE 112

Nominal Size	Connection Dimensions						Fastening					Main Dimensions				Max Load kN	
	H2	H3	D2	a1	a2	b	a3	a4	h4	h5	L	K	B	I	@ -20C	@ +20C	
	Max	Max	Min	Min	Max	Max	Max	Max	Max	Min							
M16	50/75			10			24				178						
	15	5	14		11	45		6	20	45		115	65	23	18	17	
M16	95/120										223						
M20	60/85			12			32				200						
	20	5	16		11	50		12	22	50		115	72	28	30	28	
M20	95/120										235						
M24	75/100			14			32				235						
M24	90/115	20	6	20		13	60		12	26	60	250	130	82	31	46	42
M24	110/135										280						
M27	85/120			14			35				273	155					
M27	120/155	30	6	24		15	65		15	32	66	308	155	87	35	59	55
M27	155/190										343	155					
M30	85/155	30	6	24		17	70		15	40	74	308	155	90	38	89	83
M30	155/190										343	155					

#### Materials Of Construction:

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Other materials are available on request.



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