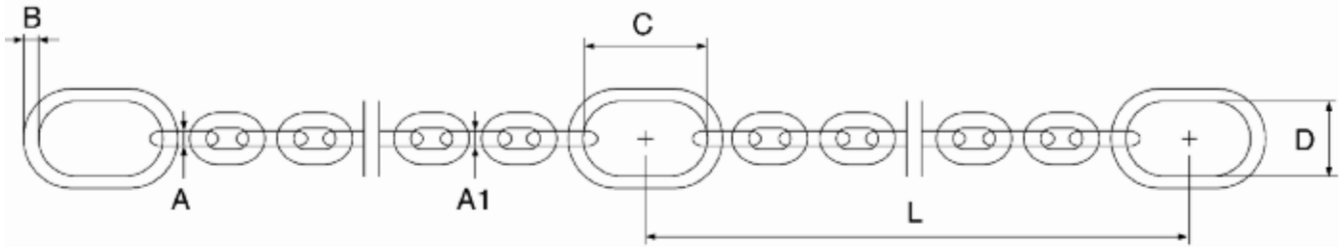


## Pump Lifting Chains

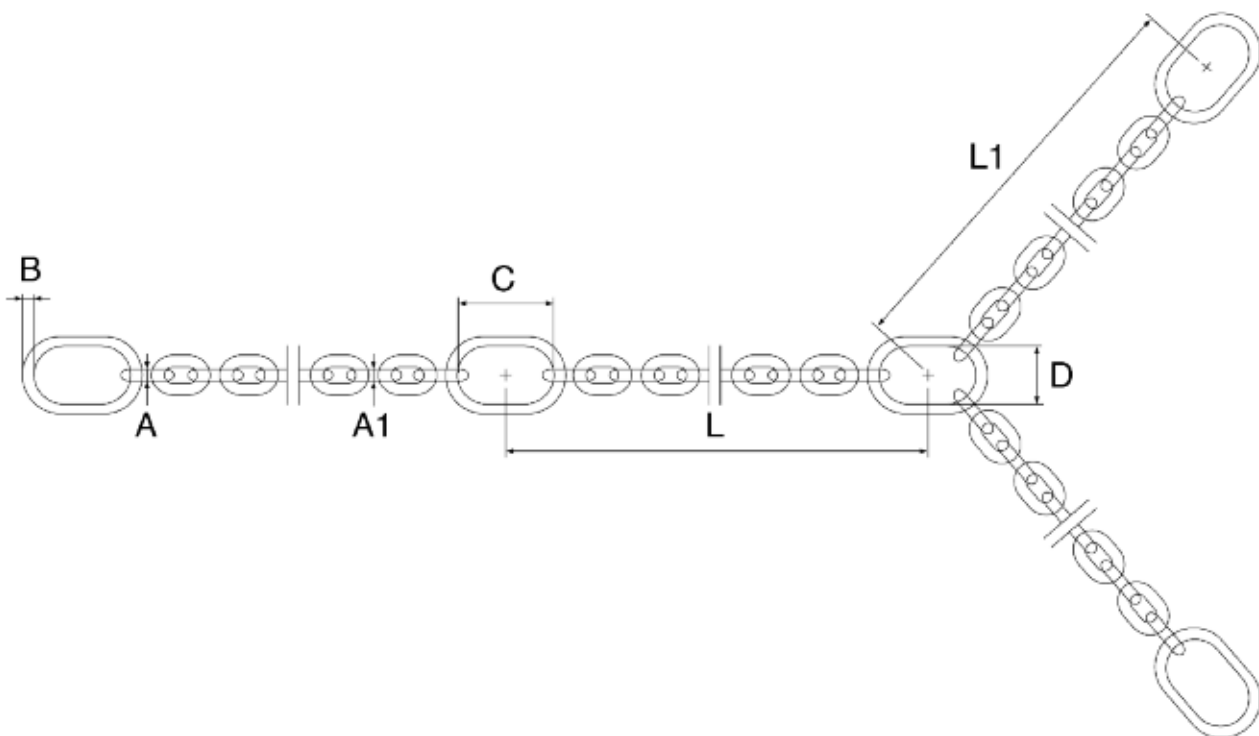
Fitted with index lifting points at each end and at 1 metre centres. All items are supplied tested and complete with relevant certification - see our shackle section for list of compatible shackles. Larger sizes and alternative hole centres / configurations are available upon request.



Material: Grade 50 AISI 316L Stainless Steel

Finish: Polished

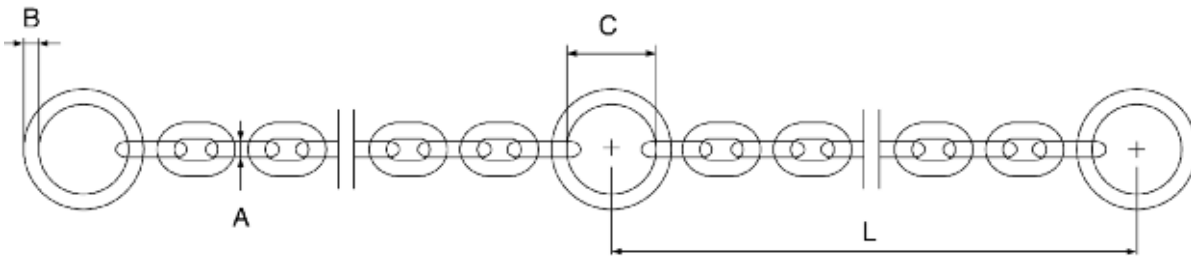
Part Code	Chain Size (mm)	Dimensions (mm)						W.L.L (t)	Weight Per M (Kg)
		A	A1	B	C	D	L		
PI5.030	4	5.0	4.0	8.0	36.0	17.0	1000.0	300 Kg	0.40
PI5.050	5	6.0	5.0	10.0	80.0	50.0	1000.0	500 Kg	0.65
PI5.075	6	8.0	6.0	13.0	110.0	60.0	1000.0	750 Kg	0.85
PI5.100	7	8.0	7.0	13.0	110.0	60.0	1000.0	1.00	1.20
PI5.125	8	10.0	8.0	16.0	110.0	60.0	1000.0	1.25	1.50
PI5.200	10	13.0	10.0	18.0	135.0	75.0	1000.0	2.00	2.50
PI5.320	13	16.0	13.0	22.0	160.0	90.0	1000.0	3.20	4.20
PI5.500	16	22.0	16.0	26.0	180.0	100.0	1000.0	5.00	6.10
PI5.630	18	26.0	18.0	32.0	200.0	110.0	1000.0	6.30	7.80



# 14 Chain Assemblies

## Pump Lifting Chains

Fitted with index lifting points at each end and at 1 metre centres.  
 All items are supplied tested and come complete with relevant certification.  
 Larger sizes and alternative configurations available on request.  
 Please see our Shackle Section (pages 24 - 26) for a list of compatible Shackles.



Material: 316 Stainless Steel  
 Finish: Polished

Part Code	Chain Size (mm)	Dimensions (mm)				W.L.L (t)	Metre Per Drum	Weight Per M (Kg)
		A	B	C	L			
PI.040	6	6.0	8.0	50.0	1000.0	400 Kg	500	0.90
PI.063	7	7.0	10.0	50.0	1000.0	630 Kg	400	1.12
PI.100	10	10.0	12.0	50.0	1000.0	1.00	200	2.50

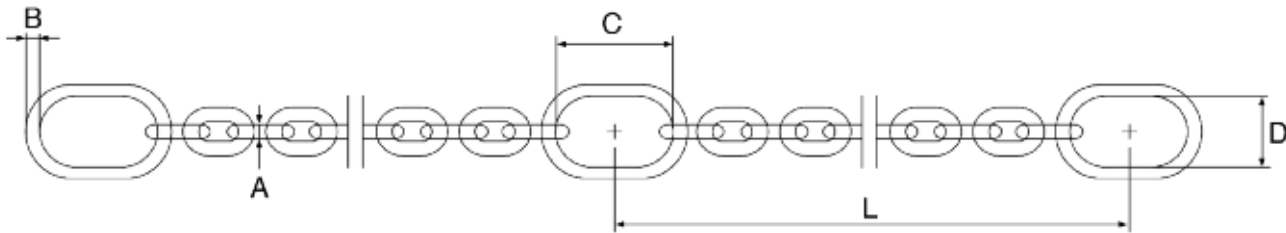
Material: Gr. 40 High Tensile  
 Finish: Hot Dipped Galvanized

Part Code	Chain Size (mm)	Dimensions (mm)				W.L.L (t)	Metre Per Drum	Weight Per M (Kg)
		A	B	C	L			
P2.030	6	6.0	10.0	50.0	1000.0	300 Kg	500	1.10
P2.050	8	8.0	12.5	50.0	1000.0	500 Kg	300	1.76
P2.100	10	10.0	20.0	75.0	1000.0	1.00	200	2.90



## Pump Lifting Chains

Fitted with index lifting points at each end and at 1 metre centres.  
 All items are supplied tested and come complete with relevant certification.  
 Larger sizes and alternative configurations available on request.  
 Please see our Shackle Section (pages 24 - 26) for a list of compatible Shackles.



Material: 316 Stainless Steel  
 Finish: Polished

Part Code	Chain Size (mm)	Dimensions (mm)				L	W.L.L (t)	Metre Per Drum	Weight Per M (Kg)
		A	B	C	D				
PI.150	12	12.0	16.0	140.0	75.0	1000.0	1.5	100	3.95
PI.200	16	16.0	20.0	140.0	75.0	1000.0	2.0	100	6.60
PI.300	16	16.0	22.0	140.0	75.0	1000.0	3.0	100	6.90
PI.400	20	20.0	27.0	140.0	75.0	1000.0	4.0	50	11.50

Material: Grade 40 High Tensile  
 Finish: Hot Dipped Galvanized

Part Code	Chain Size (mm)	Dimensions (mm)				L	W.L.L (t)	Metre Per Drum	Weight Per M (Kg)
		A	B	C	D				
P2.200	13	13.0	20.0	140.0	75.0	1000.0	2.0	100	4.40
P2.300	16	16.0	24.0	140.0	75.0	1000.0	3.0	100	6.70
P2.450	20	20.0	27.0	140.0	75.0	1000.0	4.5	50	9.31
P2.600	26	26.0	35.0	200.0	100.0	1000.0	6.0	50	17.50



# 16 Chain Assemblies

## British Made Swing Chain Assemblies

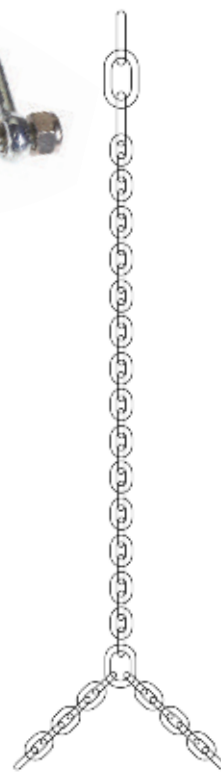
Conforming to BS EN 1176/7

Manufactured to individual customer requirements at our Cradley Factory

Finish: Sheradized / Galvanized

Our Swing chains and associated products are used by the majority of Playground and Leisure Original Equipment Manufacturers within the U.K. From there many of our products are exported worldwide. With the adaptability of our workforce and plant we can manufacture bespoke assemblies to customers individual requirements in both Mild Steel and Stainless Steel

Alternative sizes, bespoke assemblies and other finishes available upon request



to suit cradle seat



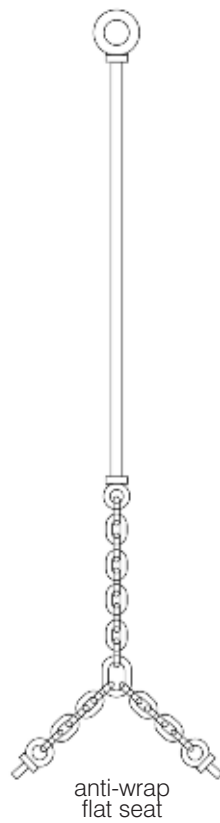
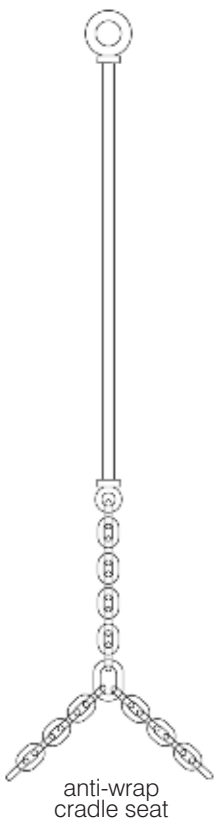
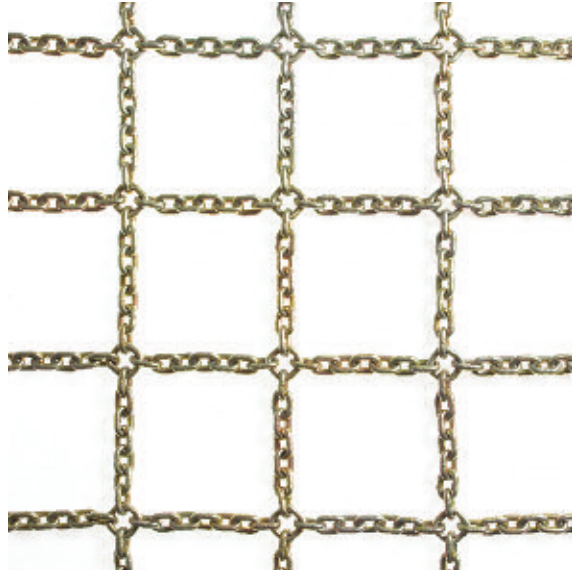
to suit flat seat

## British Made Swing Chain Assemblies

Swing chain assemblies are manufactured to suit all Swing Frames, commonly 1.8m, 2.4m and 3m cross bar heights (6ft, 8ft and 10ft) other sizes are available on request

Bespoke assemblies, Climbing Nets, Log Trail configurations etc. are also manufactured to customers individual requirements

We also supply a range of Shackles, Eyebolts and associated fittings



## Mooring Chain - Grade 30 Low Carbon Steel - Self Coloured/Galvanized

William Hackett Chains Limited supply bulk chain and bespoke mooring assemblies and bridle mooring assemblies for many Harbours, Mooring & Diving Contractors, Marinas and Sailing & Yacht Clubs through out the U.K. & Ireland. Please check our Chain Section for size range and dimensions.

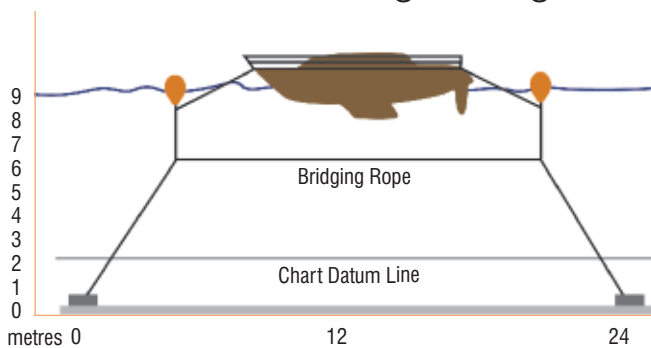


Before finalising your choice of mooring position with your local authority or club, consult your local mooring contractor as to whether the area is safe for your vessel, that your mooring chain, shackles and swivels are adequate in relation to the size of your vessel and that there is sufficient depth of water.

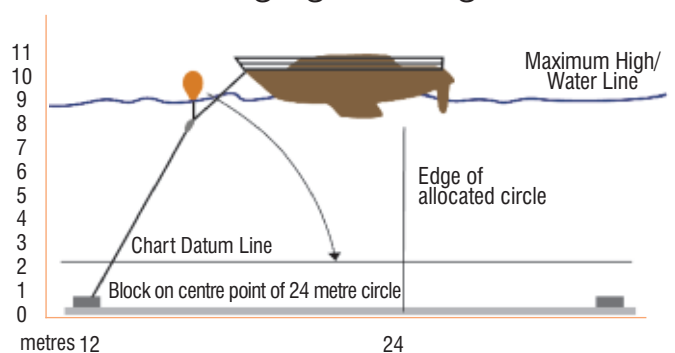
Before purchasing mooring tackle please take into consideration the following points:

- Mooring Chain must have been manufactured for the purpose of mooring use, i.e. Low Carbon Steel and must be guaranteed as such.
- We recommend that genuine BS 3032 shackles, manufactured from Low Carbon Steel, are used for securing chain. Commercial shackles, although new, may be unsuitable because of poor thread.
- Modern, loose laid three strand rope (soft rope) must not be used as a bridle on a swinging mooring because it will unlay.

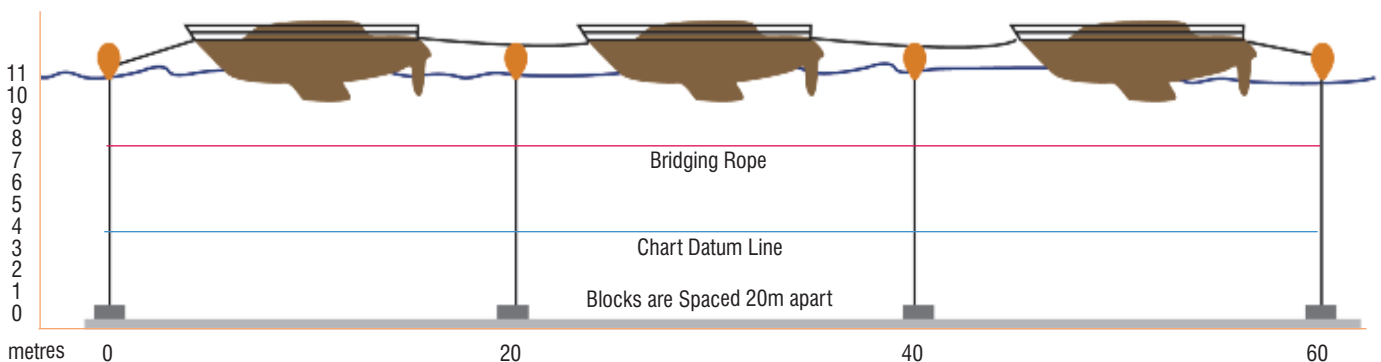
Fore and Aft Engineering



Swinging Mooring



Trot Moorings



## Mooring Chain - Grade 30 Low Carbon Steel - Self Coloured/Galvanized

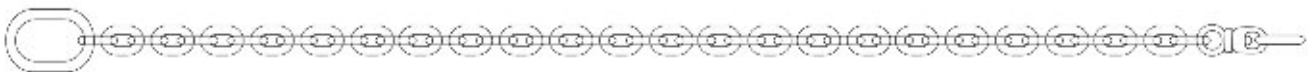


Our mooring assemblies are also extensively used within the fish farming industry around the coasts of Scotland and Ireland and as far away as Canada & Norway. At our Cradley factory we have the ability to bend and weld up to 38mm diameter steel bar.

Triple Leg Bridle Mooring

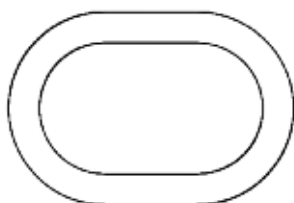


### Simple Mooring Assembly



Example of a simple mooring assembly with an Enlarged Link at one end to either allow for Shackle to be fitted to connect to Ground Chain or to reeve through itself to eliminate the use of a Shackle on the sea / river bed, this makes the assembly much more maintenance friendly. At the other end is a swivel, fitted with a further optional Enlarged Link for fitting to the Mooring Buoy.

Enlarged Link



Joining Link



Forged Single Eye Swivel



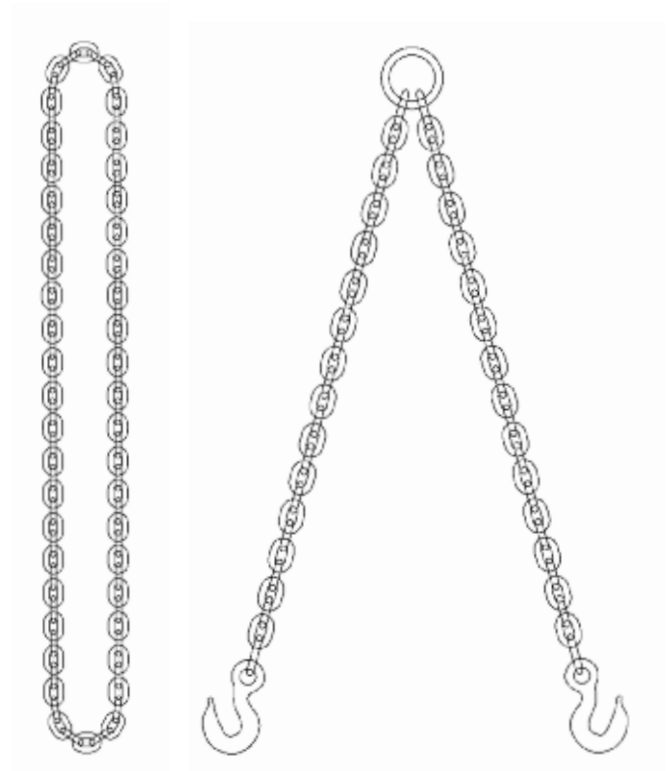
## Grade M(40) Chain Assemblies to EN818-3.

Grade M (40) Chain Slings still hold a prominent position within the lifting industry. Their ideal use are in areas of extreme temperature or acidic conditions, such as Foundries, Galvanizing plants etc. where it is not permissible to use Grade 8 / 10 Chain Slings, although within these extreme conditions, the W.L.L. should be reduced accordingly.

We have the ability to manufacture Chain Slings to customers individual requirements, conforming to current standards and legislation.

Finish: Self Colour / Galvanized  
Tested and Certified

Chain Size (mm)	Working Load Limit (multi leg included angle from vertical 0 - 45°)		
	Single Leg	Double Leg	Three/ Four Leg
6	500 Kg	700 Kg	1.00 t
7	750 Kg	1.00 t	1.50 t
8	1.00 t	1.40	2.10 t
10	1.60 t	2.20 t	3.25 t
13	2.65 t	3.70 t	5.50 t
16	4.00 t	5.60 t	8.40 t
20	6.30 t	8.80 t	13.2 t



### High Temperature Conditions

Temperature of Sling	Reduction in W.L.L. of Sling	Permanent Reduction of W.L.L.
Up to 300° C	Normal W.L.L.	No permanent reduction
* 300° C to 350° C	85% of W.L.L.	No permanent reduction
* 350° C to 400° C	75% of W.L.L.	No permanent reduction
* 400° C to 475° C	50% of W.L.L.	No permanent reduction
Over 475° C	Not recommended, refer to manufacturer	

\*If the slings are accidentally exposed to temperatures in excess of the maximum permissible temperatures indicated above, they should be withdrawn from service and referred to a Competent Person and/or the Manufacturer.

### Acidic Conditions

Chain Slings of Grade 40 or Grade M may be used in such an environment subject to the following precautions

- The Safe Working Load (S.W.L.) of such a sling should not be greater than 50% of the Working Load Limit (W.L.L.)
- The sling should be thoroughly washed in clean water immediately after use
- The sling should be given a thorough examination by a Competent Person prior to use each day

## Grade 50 Stainless Steel Chain Assemblies

AISI 316 L Stainless Steel Gr. 50 Chain Slings, supplied in both Mechanically Assembled and All-welded construction. Predominantly used in the Food, Offshore, Water / Waste Water Industries or for Non-Magnetic applications. These chain slings can be made to individual customer requirements. End fittings either Safety Sling Hook with Latch or Master Links.

Finish: Polished  
Tested and Certified  
Proof Load: 2.5 x W.L.L.  
F.O.S. 5:1

Chain Size (mm)	Working Load Limit (multi leg included angle from vertical 0 - 45°)		
	Single Leg	Double Leg	Three/ Four Leg
6	750 Kg	1.00 t	1.60 t
8	1.25 t	1.70 t	2.65 t
10	2.00 t	2.80 t	4.25 t
13	3.20 t	4.50 t	6.70 t
16	5.00 t	7.10 t	10.00 t
18	6.30 t	9.00 t	N/A

