

Welded system

Features and Benefits



Welded chain slings in stainless steel for specific applications

The power of impact of a producer depends amongst others on his ability to adjust himself to the requirements of the market and the need of the users.

pewag, a chain producer for more than 500 years, belongs to the chain factories of paramount know how and expert knowledge worldwide.

If round link – or square profile chains and oval links will be flash-butt welded correctly, no foreign material is included. The wire will be welded just by electric energy and mechanical upset force and a homogenized unit will be generated.

Welding locations are fully penetration welded by 100 %, so there is no hollow space and no cracks, in which for example water, chemicals or residue can accumulate.

Chains in welded system are used for example in hygienic applications, because of the clean surface of all components, chain, master and joining links. Persistent, profound pollution will remain minimal and chains can be cleaned easily.

If chain slings are used in applications with vibration, the welded system offers highest security and longest duration of life.

Welded chain constructions are used amongst others in:

- water-, wastewater and pump industry
- chemical – and oil industry
- clean technology and regenerative energy
- food-, slaughterhouse, hygienic and fishing industry
- powerplant and facilities (also in areas of higher temperatures)
- surface treatment
- marine and military
- recreational and sport area



chain stamping

PCWI Stainless steel pump chain

pewag pump chains type PCWI in welded systems are, because of their construction and range of components, suitable for submersible pumps and breathers in the water and waste water area. Every chain sling is tested and serialized with identification tag and a test certificate will be added.

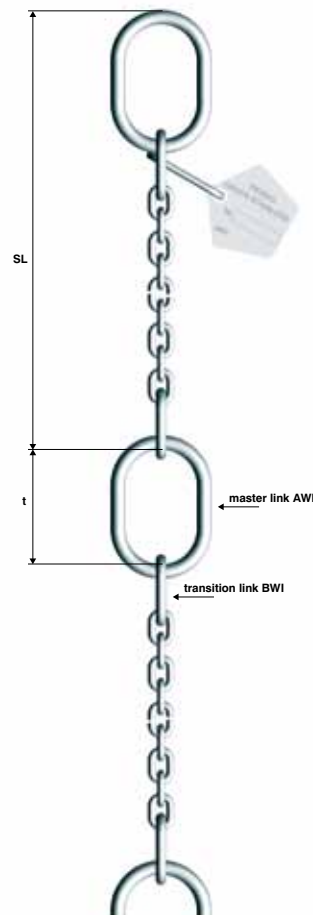
Enlarged master links at the beginning, in segment distances and at the end allow the users to lift up, to lower or lock the pump chain in steps.

Additional to standard design, customer-made variations are possible:

- two legged system with “Y” for pumps equipped with 2 eye screws
- alternative end fittings, like eye hooks, joining links or shackles
- available with additional stabilization chain
- variational of standard segment length, also in different sections possible
- special constructions
- stainless steel hoist chains for pump stations by request

For joining pumps and chains, we suggest safety shackles type SMSWI (page 18).

When ordering, please request desired total length of chain or number of segments and specify the kind of endfitting (for example master link). Total length conforms a multiple of segment length plus pitch of end fitting



Type	WLL	Master link	Dimensions	Transition link	Dimensions	Chain type	SL* Number of links	Segment length L* [mm]	Length of master links/end links [mm]	Weight SL [kg]
[mm]	[kg]		[mm]		[mm]					
PCWI 4	320	AWI 8	8x60x35	BWI 5	5x26x13	WOX 4x16	55	992	60	0,42
PCWI 5	500	AWI 10	10x80x50	BWI 7	7x36x16	WOX 5x16	53	1000	80	0,68
PCWI 6	750	AWI 13	13x110x60	BWI 7	7x36x16	WOX 6x18	45	992	110	1,05
PCWI 7	1000	AWI 13	13x110x60	BWI 9	9x44x20	WOX 7x21	37	975	110	1,33
PCWI 8	1250	AWI 16	17x110x60	BWI 10	10x44x20	WOX 8x24	33	990	110	1,83
PCWI 10	2000	AWI 18	19x135x75	BWI 13	13x54x25	WOX 10x30	25	993	135	2,91
PCWI 13	3200	AWI 22	23x160x90	BWI 16	17x70x34	WOX 13x39	17	963	160	4,84
PCWI 16	5000	AWI 26	27x180x100	BWI 20	20x85x40	WOX 16x48	13	974	180	7,38




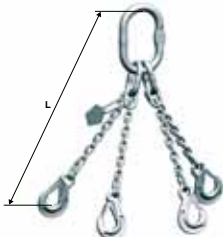
* SL consisting of 1AWI/2BWI/WOX/links in standart length of 1000 mm



Application picture

pewag winner inox stainless steel chain slings and endless chains in welded system

Pictured chain slings and endless chains show a summary of different possibilities of the welded system
 On demand different variations can be supplied

Variation of end fittings Base on top: master link, respectively enlarged master link assembly	Diameter d [mm]	WLL 0–45° [kg]	WLL 45–60° [kg]	Eye sling hook HSWI	Master link AWI	Transition link BWI	additional possibility of shortening VLWI	Shackle SMSWI
1-leg chain sling								
	4	320	-	-	AWI 8	BWI 6	-	SMSWI 4/5
	5	500	-	HSWI 5	AWI 10	BWI 7	VLWI 5/6	SMSWI 4/5
	6	750	-	-	AWI 13	BWI 7	VLWI 5/6	SMSWI 6/7/8
	7	1.000	-	HSWI 7	AWI 13	BWI 9	VLWI 7/8	SMSWI 6/7/8
	8	1.250	-	-	AWI 16	BWI 10	VLWI 7/8	SMSWI 6/7/8
	10	2.000	-	HSWI 10	AWI 18	BWI 13	VLWI 10	SMSWI 10
	13	3.200	-	HSWI 13	AWI 22	BWI 16	VLWI 13	SMSWI 13
	16	5.000	-	HSWI 16	AWI 26	BWI 20	VLWI 16	SMSWI 16
2-leg chain sling								
	4	-	450/320	-	AWI 8	BWI 6	-	SMSWI 4/5
	5	-	700/500	HSWI 5	AWI 10	BWI 7	VLWI 5/6	SMSWI 4/5
	6	-	1.000/750	-	AWI 13	BWI 7	VLWI 5/6	SMSWI 6/7/8
	7	-	1.400/1.000	HSWI 7	AWI 13	BWI 9	VLWI 7/8	SMSWI 6/7/8
	8	-	1.700/1.250	-	AWI 16	BWI 10	VLWI 7/8	SMSWI 6/7/8
	10	-	2.800/2.000	HSWI 10	AWI 18	BWI 13	VLWI 10	SMSWI 10
	13	-	4.500/3.200	HSWI 13	AWI 22	BWI 16	VLWI 13	SMSWI 13
	16	-	6.300/4.500	HSWI 16	AWI 26	BWI 20	VLWI 16	SMSWI 16
3-leg chain sling								
	4	-	670/475	-	AWI 8	BWI 6	-	SMSWI 4/5
	5	-	1.050/750	HSWI 5	AWI 10	BWI 7	VLWI 5/6	SMSWI 4/5
	6	-	1.600/1.120	-	AWI 13	BWI 7	VLWI 5/6	SMSWI 6/7/8
	7	-	2.100/1.500	HSWI 7	AWI 13	BWI 9	VLWI 7/8	SMSWI 6/7/8
	8	-	2.650/1.800	-	AWI 16	BWI 10	VLWI 7/8	SMSWI 6/7/8
	10	-	4.250/3.000	HSWI 10	AWI 18	BWI 13	VLWI 10	SMSWI 10
	13	-	6.700/4.750	HSWI 13	AWI 22	BWI 16	VLWI 13	SMSWI 13
	16	-	10.000/7.500	HSWI 16	AWI 26	BWI 20	VLWI 16	SMSWI 16
4-leg chain sling								
	4	-	670/475	-	AWI 8	BWI 6	-	SMSWI 4/5
	5	-	1.050/750	HSWI 5	AWI 10	BWI 7	VLWI 5/6	SMSWI 4/5
	6	-	1.600/1.120	-	AWI 13	BWI 7	VLWI 5/6	SMSWI 6/7/8
	7	-	2.100/1.500	HSWI 7	AWI 13	BWI 9	VLWI 7/8	SMSWI 6/7/8
	8	-	2.650/1.800	-	AWI 16	BWI 10	VLWI 7/8	SMSWI 6/7/8
	10	-	4.250/3.000	HSWI 10	AWI 18	BWI 13	VLWI 10	SMSWI 10
	13	-	6.700/4.750	HSWI 13	AWI 22	BWI 16	VLWI 13	SMSWI 13
	16	-	10.000/7.500	HSWI 16	AWI 26	BWI 20	VLWI 16	SMSWI 16

Chain slings assembled with Connex CWI connectors are additionally possible in self- construction by technical experts


As top end fittings for welded chain slings, basis version is master link respective enlarged master link assembly. Bottom ends, customer can choose between eye hook HSWI, master link AWI, transition link BWI or shackle SMSWI.



Application instructions for shortening



Basically chain slings and endless chains in welded system are serialized with identification tag and a test certificate will be added.

	Code	Diameter d [mm]	WLL laced [kg]
	SWI 4	4	512
	SWI 5	5	800
	SWI 6	6	1.200
	SWI 7	7	1.600
	SWI 8	8	2.000
	SWI 10	10	3.200
	SWI 13	13	5.120
	SWI 16	16	10.000

Usable length (extended length) to customer specification