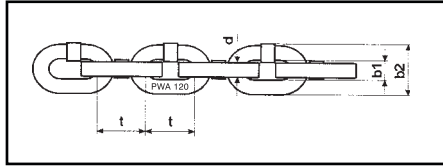
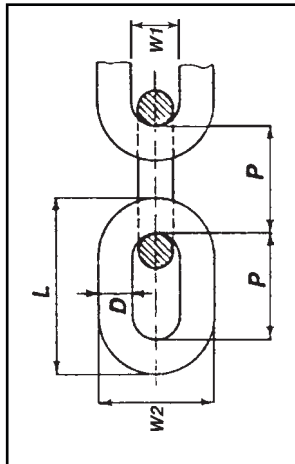


Chain Slings

Chain Dimensions / Load Rating & Testing



Dimensions							
Grade 120 Alloy (in)	Nominal Thickness d	Pitch t	Width		WLL lb Safety Factor 4:1	Breaking load lb	Weight lb/ft
			inside b1 min.	Outside b2 max.			
Ni 720 (9/32)	.276 (7 mm)	.866	.393	1.024	5,200	20,800	.874
Ni 1020 (3/8)	.394 (10 mm)	1.300	.559	1.457	10,600	42,400	1.747
Ni 1320 (1/2)	.512 (13mm)	1.614	.732	1.949	17,900	71,600	3.091



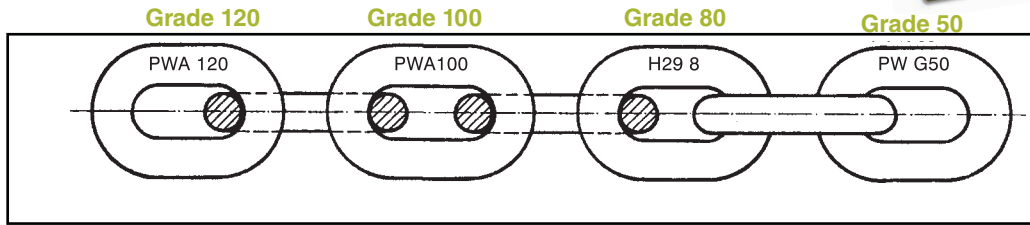
Weights								
Diameter (in)	Grade 100 Alloy	Grade 80 Alloy	Grade 50 Stainless Steel	Nominal Diameter D	Pitch P	Width		Weight lb/ft
						inside W1 min.	Outside W2 max.	
3/16	—	—	Nik 5	.197	.630	.295	.728	.376
1/8	Ni 5.50	Ni 5.5	—	.217	.680	.319	.787	.470
3/16	Ni 70	Ni 7	Nik 7	.276	.826	.375	.992	.738
1/8	Ni 80	Ni 8	—	.315	.945	.430	1.134	.939
3/16	Ni 100	Ni 10	Nik 10	.394	1.181	.531	1.417	1.475
1/4	Ni 130	Ni 13	Nik 13	.512	1.535	.689	1.843	2.548
3/16	Ni 160	Ni 16	Nik 16	.630	1.890	.846	2.268	3.830
1/4	Ni 200	Ni 20	—	.787	2.440	1.008	2.776	5.780
3/8	Ni 220	Ni 22	—	.866	2.598	1.161	3.118	7.324
1	Ni 260	Ni 26	—	1.024	3.071	1.378	3.685	10.214
1-1/4	—	Ni 32	—	1.260	3.780	1.701	4.528	15.455

Load Rating															
Grade 120 Alloy				Grade 100 Alloy				Grade 80 Alloy				Grade 50 Stainless Steel			
Diameter (in)	Working load lbs Safety factor 4:1	Manufac. test load lbs	Breaking load lbs	Diameter (in)	Working load lbs Safety factor 4:1	Manufac. test load lbs	Breaking load lbs	Diameter (in)	Working load lbs Safety factor 4:1	Manufac. test load lbs	Breaking load lbs	Diameter (in)	Working load lbs Safety factor 4:1	Manufac. test load lbs	Breaking load lbs
—	—	—	—	—	—	—	—	—	—	—	—	3/16	1,100	2,200	4,400
9/32	5,200	10,400	20,800	7/32	2,700	5,400	10,800	7/32	2,100	4,200	8,400	—	—	—	—
—	—	—	—	9/32	4,300	8,600	17,200	9/32	3,500	7,000	14,000	9/32	2,200	4,400	8,800
3/8	10,600	21,200	42,400	5/16	5,700	11,400	22,800	5/16	4,500	9,000	18,000	—	—	—	—
1/2	17,900	35,800	71,600	3/8	8,800	17,600	35,200	3/8	7,100	14,200	28,400	3/8	4,400	8,800	17,600
—	—	—	—	1/2	15,000	30,000	60,000	1/2	12,000	24,000	48,000	1/2	7,100	14,200	28,200
—	—	—	—	5/8	22,600	45,200	90,400	5/8	18,100	36,200	72,400	5/8	11,000	22,000	44,000
—	—	—	—	3/4	35,300	70,600	141,200	3/4	28,300	56,600	113,200	—	—	—	—
—	—	—	—	7/8	42,700	85,400	170,800	7/8	34,200	68,400	136,800	—	—	—	—
—	—	—	—	—	59,700	119,400	238,800	1	47,700	95,400	190,800	—	—	—	—
—	—	—	—	—	—	—	—	1-1/4	72,300	144,600	289,200	—	—	—	—



Chain Slings

ID Testing & Reduction Factors

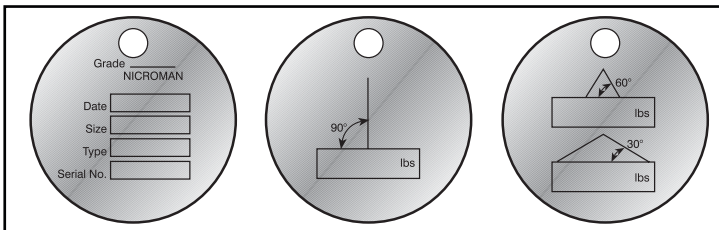


Pewag lifting chain and fittings are marked with a batch identification number and the manufacturer's identification marking: the number, "120" or "12" to indicate Grade 120 Alloy, "100", "10" or "V" to indicate Grade 100 Alloy, "8" to indicate Grade 80 Alloy and "50" to indicate Grade 50 Stainless.

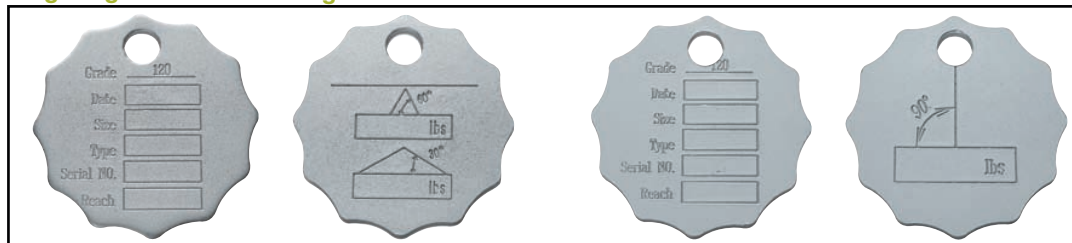
All Alloy chains are 100% tested to 2 times the working load values and are furnished with a test certificate to this effect.

Every chain sling manufactured by Pewag is supplied with a steel tag and test certificate as shown.

Messrs.		TEST CERTIFICATE					
Order No.							
Works Ref. No.							
Dimension of Chain	Nominal Diameter <i>D</i>	Pitch <i>P</i>	Outside Length <i>L</i>	Width <i>W</i>	Weight Lbs.		
Nom-Designation							
Material		Welding Process		Heat Treatment			
Places	Length in Feet	Weight of Lbs.	Safe Working Load in Lbs.	Production Proof Test Load in Lbs.	Breaking Load in Lbs.	Minimum Elongation	
Total safe working load for multiple leg chain							
30°	LBS						
45°	LBS						
60°	LBS						
Result of test				PEWAG INCORPORATED			
MEETS ALL STANDARDS				DATE:			



Single-leg chain Multi-leg chain





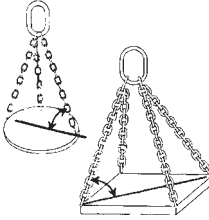
To be used for various slinging methods and conditions without shock loads.

Grade 120 12" point I.D. tag

Load factor	.8	1.4	1.4	1.6	Reduction factor	7	1	.7	.5
						Asymmetrical distribution of load			
							R = more than 2 x chain dia.	R = more than chain dia.	Sharp corners

Chain Slings

Maximum Work Load of Chain Sling Applications

Specifications									
Safety Factor	1-leg slings	2-leg-slings			3-leg slings and 4-leg slings				
									
Angle	90 degrees	60 degrees	45 degrees	30 degrees	60 degrees	45 degrees	30 degrees		
Load Factor	1	1.7	1.4	1	2.6	2.1	1.5		
Grade 120 Alloy								Temperature Resistance	
Ni 720	5/32"	5,200	9,000	7,400	5,200	13,500	11,000	7,800	Retains 100% of work load limit at minus 40-400 degrees F. Not for temperatures over 400 degrees F.
Ni 1020	3/8"	10,600	18,400	15,000	10,600	27,500	22,500	15,900	
Ni 1320	1/2"	17,900	31,000	25,300	17,900	46,500	38,000	26,900	
Grade 100 Alloy									
Ni 5.50	7/32"	2,700	4,700	3,800	2,700	7,000	5,700	4,000	Retains 100% of work load limit at minus 40-400 degrees F. Not for temperatures over 400 degrees F. Special G100 750 F chain for elevated temperature available.
Ni 70	9/32"	4,300	7,400	6,100	4,300	11,200	9,100	6,400	
Ni 80	5/16"	5,700	9,900	8,100	5,700	14,800	12,100	8,500	
Ni 100	3/8"	8,800	15,200	12,400	8,800	22,900	18,700	13,200	
Ni 130	1/2"	15,000	26,000	21,200	15,000	39,000	31,800	22,500	
Ni 160	5/8"	22,600	39,100	32,000	22,600	58,700	47,900	33,900	
Ni 200	3/4"	35,300	61,100	49,900	35,300	91,700	74,900	53,000	
Ni 220	7/8"	42,700	74,000	60,400	42,700	110,900	90,600	64,000	
Ni 260	1"	59,700	103,400	84,400	59,700	155,100	126,600	89,550	
Grade 80 Alloy									
Ni 5.5	7/32"	2,100	3,600	3,000	2,100	5,500	4,400	3,200	Retains 100% of work load limit at minus 40-400 degrees F, 90% at 400-570 degrees F, and 75% at 570-750 degrees F. Not for temperatures over 750 degrees F.
Ni 7	9/32"	3,500	6,100	4,900	3,500	9,100	7,400	5,200	
Ni 8	5/16"	4,500	7,800	6,400	4,500	11,700	9,500	6,800	
Ni 10	3/8"	7,100	12,300	10,000	7,100	18,400	15,100	10,600	
Ni 13	1/2"	12,000	20,800	17,000	12,000	31,200	25,500	18,000	
Ni 16	5/8"	18,100	31,300	25,600	18,100	47,000	38,400	27,100	
Ni 20	3/4"	28,300	49,000	40,000	28,300	73,500	60,000	42,400	
Ni 22	7/8"	34,200	59,200	48,400	34,200	88,900	72,500	51,300	
Ni 26	1"	47,700	82,600	67,400	47,700	123,900	101,200	71,500	
Ni 32	1 1/4"	72,300	125,200	102,200	72,300	187,800	153,400	108,400	
Grade 50 Stainless Steel									
Nik 5	5/16"	1,100	1,900	1,600	1,100	2,900	2,300	1,700	Retains 100% of work load limit at minus 50-750 degrees F, 75% at 750-1,100 degrees F, and 50% at 1,100-1,290 degrees F. Not for temperatures over 1,290 degrees F.
Nik 7	9/32"	2,200	3,800	3,100	2,200	5,700	4,600	3,300	
Nik 10	3/8"	4,400	7,500	6,200	4,400	11,500	9,300	6,600	
Nik 13	1/2"	7,100	12,100	10,000	7,100	18,500	14,900	10,700	
*Nik 16	5/8"	11,000	18,700	15,600	11,000	23,100	23,100	16,500	

*Sling work load limits are reduced 10% when the HSK16 eye sling hook is used.



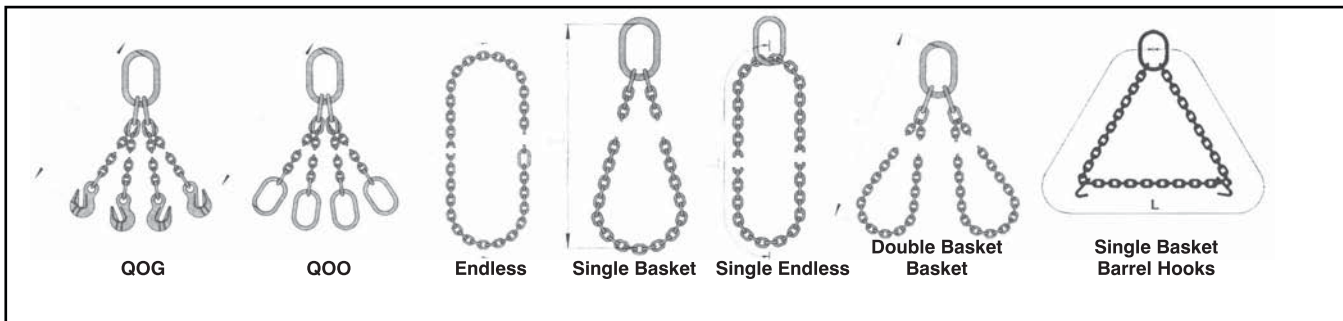
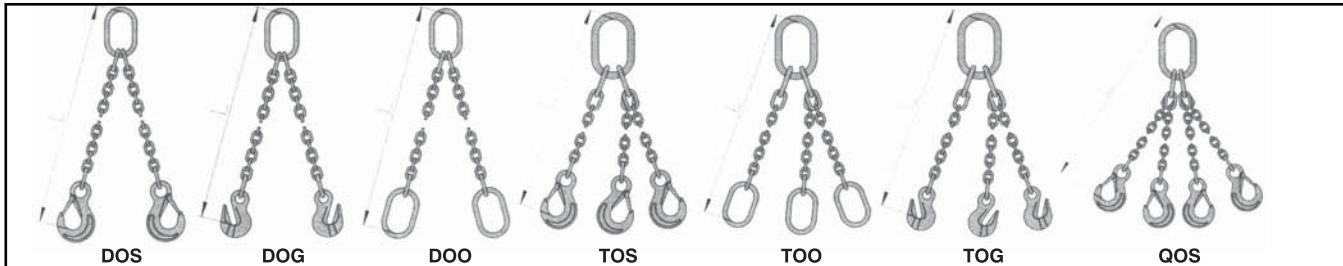
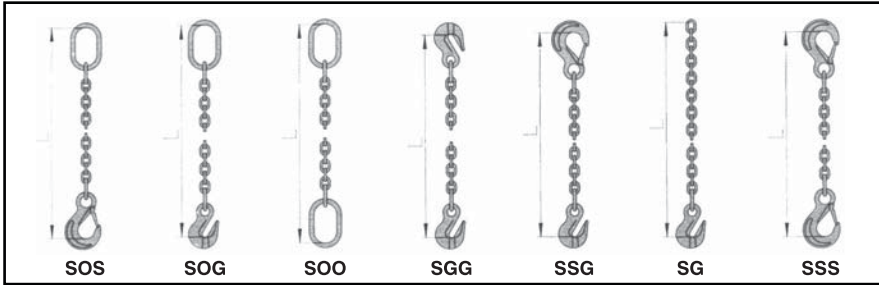
Chain Slings

Standard Assemblies of Pewag Chain

Standard Assemblies of Pewag Chain

Chain slings can be delivered with Connex connecting links and accessories ready fitted, with clevis fittings, or in welded construction. Should you require any chain sling assemblies other than those in this brochure, please send us a sketch of the desired model. The standard tolerance for the length "L" is $\pm 2 - 0$ pitch.

Alloy Slings can be assembled with the XK Shortening Hook



Ordering Data - Example of how to order:

1. Determine the maximum load to be lifted.
2. Determine the type of slings needed (single, double, etc.)
3. Estimate the proper angle between the leg of the sling and the load during operation
4. Select the proper fittings (hooks, master links, etc.)
5. Determine the overall reach (measured from bearing point on master link to bearing point of fitting).
6. Choose chain size which meets your required work load, angle and reduction factor
7. Choose grade, type and finish of steel which meets your requirements.

