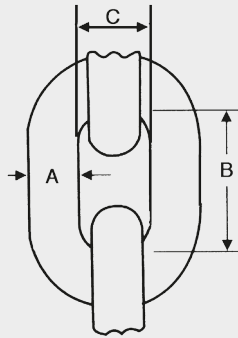
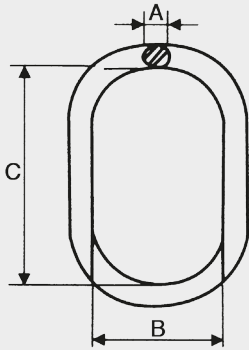


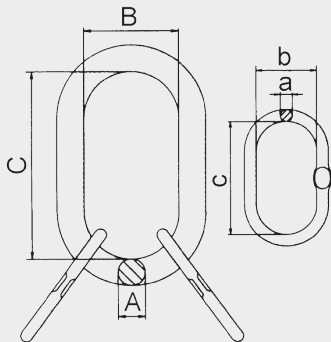
GRADE 80 ACCESSORIES



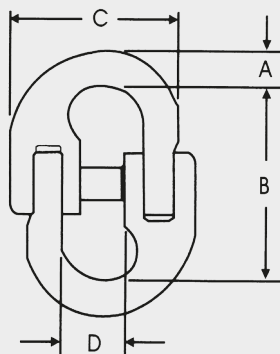
HIGH RESISTANCE CHAIN DIN EN-818-2 G.80						
CODE	SIZE (mm)	MWL TON.	MAIN DIMENSIONS (mm)			NET WEIGHT (Kg.)
			A	B	C	
PHC1000	6-8	1,12	6	18	8,50	0,80
PHC2000	8-8	2,00	8	24	11	1,40
PHC3000	10-8	3,15	10	30	14	2,20
PHC4000	13-8	5,30	13	39	18	3,70
PHC5000	16-8	8,00	16	48	22	5,70
PHC6000	20-8	12,50	20	57	26	7,80
PHC7000	22-8	15,00	22	66	30	10,90
PHC8000	26-8	21,20	26	78	35	15,20
PHC9000	32-8	31,50	32	96	43	23,00



MASTER LINK G.80						
CODE	MODEL	MWL TON.	MAIN DIMENSIONS (mm)			NET WEIGHT (Kg.)
			A	B	C	
PAN1000	AN76	1,60	13	60	110	0,40
PAN2000	AN87	2,12	16	60	110	0,55
PAN3000	AN108	3,15	18	75	135	0,80
PAN4000	AN1310	5,30	22	90	160	1,50
PAN5000	AN1613	8,00	26	100	180	2,30
PAN6000	AN1816	11,20	32	110	200	4,00
PAN7000	AN2018	14,00	36	140	260	6,50
PAN8000	AN2220	17,00	40	160	300	9,00
PAN9000	AN2622	21,20	45	180	340	13,00
PAN10000	AN3226	31,50	50	190	350	16,50
PAN11000	AN3632	45,00	56	200	400	23,50

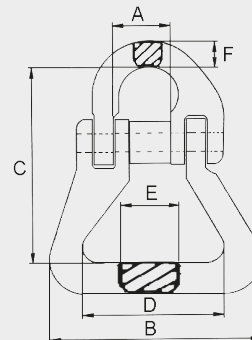


TRIPLE MASTER LINK G.80										
CODE	SIZE (mm)	MWL TON.	MAIN DIMENSIONS (mm)						NET WEIGHT (Kg.)	
			A	B	C	A	B	C		
PHAM1000	HA-06	2,36	18	77	133	14	26	56	1,30	
PHAM2000	HA-08	4,25	22	89	156	16	33	72	2,20	
PHAM3000	HA-10	6,70	25	99	180	18	41	87	3,20	
PHAM4000	HA-13	11,20	31	111	196	22	52	115	6,00	
PHAM5000	HA-16	17,00	36	131	261	25	65	140	9,50	
PHAM6000	HA-20	26,50	50	191	353	32	89	185	23,50	
PHAM7000	HA-22	31,50	51	191	343	37	106	180	25,40	
PHAM8000	HA-26	45,00	57	210	410	40	105	183	35,50	
PHAM9000	HA-32	74,80	70	252	420	50	116	200	59,60	

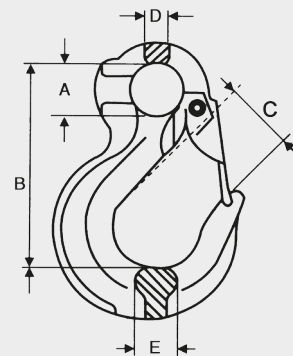


CONNECTING LINK G.80							
CODE	SIZE (mm)	MWL TON.	MAIN DIMENSIONS (mm)				NET WEIGHT (Kg.)
			A	B	C	D	
PHH1000	6-8	1,2	8	42	37	16	0,14
PHH2000	8-8	2,00	9	59	48	21	0,21
PHH3000	10-8	3,15	13	70	60	28	0,40
PHH4000	13-8	5,30	15	87	76	30	0,60
PHH5000	16-8	8,00	20	106	92	37	1,20
PHH6000	20-8	12,50	24	117	106	45	1,80
PHH7000	22-8	15,00	27	138	130	51	2,80
PHH8000	26-8	21,20	32	156	154	59	4,40
PHH9000	32-8	31,50	38	197	187	68	8,30

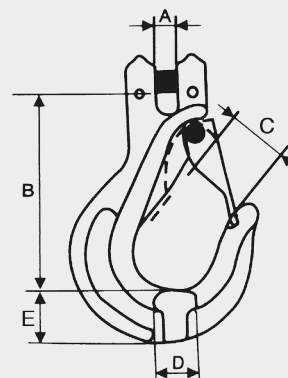
POLYESTER CONNECTING LINK G.80									
CODE	SIZE (mm)	MWL TON.	MAIN DIMENSIONS (mm)						NET WEIGHT (Kg.)
			A	B	C	D	E	F	
PHHP100	6-8	1,12	16	60	55	35	18	8	0,20
PHHP200	8-8	2,00	20	62	64	37	23	9	0,30
PHHP300	10-8	3,15	26	66	80	37	30	13	0,50
PHHP400	13-8	5,30	30	87	94	51	36	16	1,10
PHHP500	16-8	8,00	36	107	120	64	45	22	2,00
PHHP600	20-8	12,50	44	127	134	78	50	23	2,90



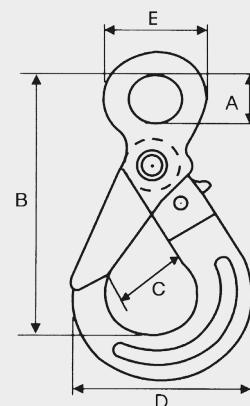
EYE SLING HOOK WITH LATCH G.80									
CODE	SIZE (mm)	MWL TON.	MAIN DIMENSIONS (mm)						NET WEIGHT (Kg.)
			A	B	C	D	E		
PG2000	6-8	1,12	20	79	24	9	14	0,30	
PG2000	8-8	2,00	25	91	29	11	17	0,40	
PG3000	10-8	3,15	38	118	39	15	21	0,90	
PG4000	13-8	5,30	42	150	39	20	27	1,80	
PG5000	16-8	8,00	50	183	47	23	35	2,90	
PG6000	20-8	12,50	62	222	51	27	48	6,40	
PG7000	22-8	15,00	62	235	75	33	43	9,00	
PG8000	26-8	21,00	63	272	82	37	61	13,70	
PG9000	32-8	31,50	87	350	103	39	65	19,30	



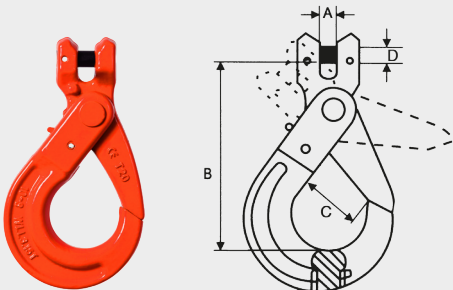
CLEVIS SLING HOOK WITH LATCH G.80									
CODE	SIZE (mm)	MWL TON.	MAIN DIMENSIONS (mm)						NET WEIGHT (Kg.)
			A	B	C	D	E		
PGD1000	6-8	1-12	8	75	24	14	22	0,30	
PGD2000	8-8	2,00	9	85	24	17	27	0,50	
PGD3000	10-8	3-15	13	103	29	23	32	1,00	
PGD4000	13-8	5-30	16	126	36	27	45	1,80	
PGD5000	16-8	8,00	21	144	46	35	60	3,50	
PGD6000	20-8	12,50	24	176	53	51	62	6,60	



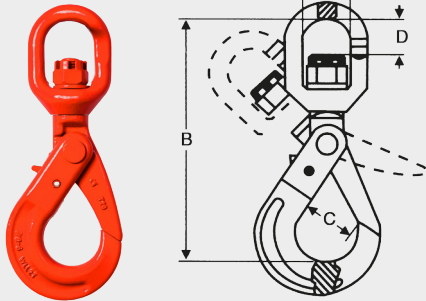
EYE SELF LOCKING SAFETY HOOK G.80									
CODE	SIZE (mm)	MWL TON.	MAIN DIMENSIONS (mm)						NET WEIGHT (Kg.)
			A	B	C	D	E		
PGS1000	6-8	1,12	22	108	27	70	43	0,50	
PGS2000	8-8	2,00	25	132	37	89	49	0,80	
PGS3000	10-8	3,15	32	164	44	108	32	1,40	
PGS4000	13-8	3,50	40	203	52	137	80	2,90	
PGS5000	16-8	8,00	56	251	62	170	98	5,70	
PGS6000	20-8	12,50	62	260	86	185	118	7,60	
PGS7000	22-8	15,00	70	312	80	297	128	11,00	
PGS8000	26-8	21,20	79	355	100	243	147	16,70	
PGS9000	32-8	31,50	102	405	143	337	195	42,00	



GRADE 80 ACCESSORIES

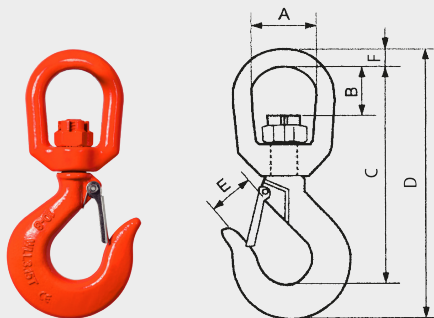


CLEVIS SELF LOCKING SAFETY HOOK G.80							
CODE	SIZE (mm)	MWL TON.	MAIN DIMENSIONS (mm)				NET WEIGHT (Kg.)
			A	B	C	D	
PGSD1000	6-8	1,12	9	94	27	8	0,50
PGSD2000	8-8	2,00	9	108	37	9	0,80
PGSD3000	10-8	3,15	13	145	44	13	1,50
PGSD4000	13-8	3,50	15	175	52	16	3,10
PGSD5000	16-8	8,00	18	210	62	20	6,10
PGSD6000	20-8	12,50	25	230	86	25	7,90
PGSD7000	22-8	15,00	25	270	80	29	11,30



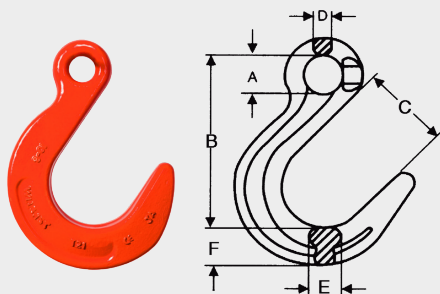
SWIVEL SELF LOCKING SAFETY HOOK G.80							
CODE	SIZE (mm)	MWL TON.	MAIN DIMENSIONS (mm)				NET WEIGHT (Kg.)
			A	B	C	D	
PGSG1000	6-8	1,12	33	152	27	25	0,70
PGSG2000	8-8	2,00	35	183	37	27	1,10
PGSG3000	10-8	3,15	42	217	44	36	2,00
PGSG4000	13-8	3,50	49	260	52	40	3,70
PGSG5000	16-8	8,00	60	325	62	53	7,10
PGSG6000	20-8	12,50	72	352	86	58	9,80
PGSG7000	22-8	15,00	96	455	80	93	17,20
PGSG8000	26-8	21,20	121	525	100	113	29,80

Caution: Only turn the hook with no load.

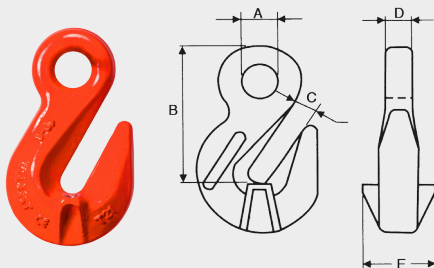


SWIVEL SLING HOOK WITH LATCH G.80									
CODE	SIZE (mm)	MWL TON.	MAIN DIMENSIONS (mm)						NET WEIGHT (Kg.)
			A	B	C	D	E	F	
PGG1000	6-8	1,12	32	26	112	140	22	9	0,40
PGG2000	8-8	2,00	44	37	150	190	25	15	1,00
PGG3000	10-8	3,15	44	37	160	206	28	15	1,20
PGG4000	13-8	3,50	50	43	187	242	35	18	1,90
PGG5000	16-8	8,00	64	56	242	310	43	25	4,00
PGG6000	20-8	12,50	70	53	274	360	52	28	7,60
PGG7000	22-8	15,00	79	64	327	431	59	29	12,50

Caution: Only turn the hook with no load.

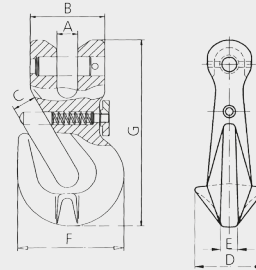


EYE FOUNDRY HOOK G.80									
CODE	SIZE (mm)	MWL TON.	MAIN DIMENSIONS (mm)						NET WEIGHT (Kg.)
			A	B	C	D	E	F	
PGF1000	6-8	1,12	18	118	62	12	24	31	1,00
PGF2000	8-8	2,00	18	118	62	12	24	31	1,00
PGF3000	10-8	3,15	22	146	75	17	33	38	2,00
PGF4000	13-8	3,50	27	173	87	19	38	44	3,10
PGF4000	16-8	8,00	32	198	98	19	45	53	5,10
PGF6000	20-8	12,50	37	230	111	26	57	65	9,10
PGF7000	22-8	15,00	44	258	124	29	60	68	11,70

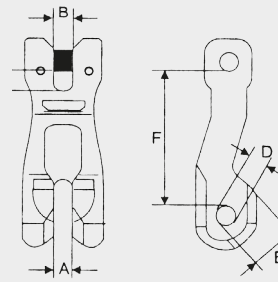


EYE SHORTENING HOOK G.80								
CODE	SIZE (mm)	MWL TON.	MAIN DIMENSIONS (mm)					NET WEIGHT (Kg.)
			A	B	C	D	E	
PGA1000	6-8	1,12	14	45	8	9	22	0,10
PGA2000	8-8	2,00	16	59	10	9	30	0,20
PGA3000	10-8	3,15	20	79	13	14	46	0,60
PGA4000	13-8	3,50	26	99	16	16	57	1,30
PGA5000	16-8	8,00	30	102	19	19	71	2,00
PGA6000	20-8	12,50	36	130	22	22	93	4,80
PGA7000	22-8	15,00	44	160	27	28	90	7,40
PGA8000	26-8	21,20	44	184	28	35	100	10,00
PGA9000	32-8	31,50	55	230	37	42	113	18,00

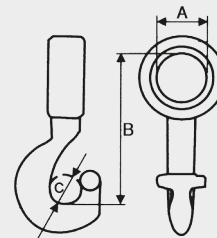
DIRECT CONNECTION SHORTENING HOOK WITH BOLT G.80										
CODE	SIZE (mm)	MWL TON.	MAIN DIMENSIONS (mm)							NET WEIGHT (Kg.)
			A	B	C	D	E	F	G	
PGAPD1000	6-8	1,12	8	32	8	26	6	43	75	0,20
PGAPD2000	8-8	2,00	9	35	11	33,50	11	50	89	0,33
PGAPD3000	10-8	3,15	12	45	13	46	12	70	126	0,88
PGAPD4000	13-8	3,50	15	53	16	57	13	96	163	1,85
PGAPD5000	16-8	8,00	18	69	19	72	17	112	183	3,24



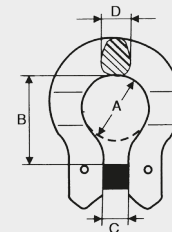
CHAIN CLUTCH G.80										
CODE	SIZE (mm)	MWL TON.	MAIN DIMENSIONS (mm)						NET WEIGHT (Kg.)	
			A-B	C	D	E	F			
PGAD1000	6-8	1,12	7	8	7	14	45	0,30		
PGAD2000	8-8	2,00	9	11	11	20	64	0,50		
PGAD3000	10-8	3,15	12	13	13	22	87	1,00		
PGAD4000	13-8	3,50	16	16	16	32	114	2,00		
PGAD5000	16-8	8,00	20	20	21	38	135	3,50		
PGAD6000	20-8	12,50	22	25	24	47	151	4,30		
PGAD7000	22-8	15,00	24	28	27	57	185	7,80		



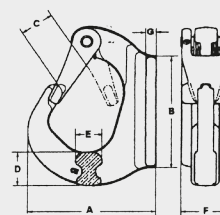
CHOKER HOOK G.80										
CODE	SIZE (mm)	MWL TON.	MAIN DIMENSIONS (mm)			NET WEIGHT (Kg.)				
			A	B	C					
PGCOR2000	8-8	2,00	30	90	17	0,40				
PGCOR3000	10-8	3,15	39	116	21	0,70				
PGCOR4000	13-8	5,30	51	143	27	1,50				
PGCOR5000	16-8	8,00	65	180	32	3,20				



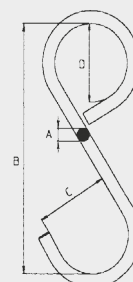
OMEGA LINK G.80										
CODE	SIZE (mm)	MWL TON.	MAIN DIMENSIONS (mm)				NET WEIGHT (Kg.)			
			A	B	C	D				
POMEG2000	8-8	2,00	22	34	10	11	0,20			
POMEG3000	10-8	3,15	31	40	12	16	0,30			
POMEG4000	13-8	5,30	40	54	16	20	0,70			
POMEG5000	16-8	8,00	48	61	18	26	1,10			



HOOK TO BE WELDED (EXCAVATOR) G.80										
CODE	SIZE (mm)	MWL TON.	MAIN DIMENSIONS (mm)							NET WEIGHT (Kg.)
			A	B	C	D	E	F	G	
PGSOL100	GE-2	2,00	91	80	26	24	20	34	7	0,80
PGSOL200	GE-3	3,00	106	115	30	30	24	36	9	1,20
PGSOL300	GE-5	5,00	132	159	36	45	28	44	10	2,50
PGSOL400	GE-8	8,00	133	164	36	51	40	53	16	3,50
PGSOL500	GE-10	10,00	166	200	48	55	39	56	20	5,60



HOOKS										
CODE	SIZE (mm)	MWL TON.	MAIN DIMENSIONS (mm)				NET WEIGHT (Kg.)			
			A	B	C	D				
PS10150	S-10	0,15	10	115	28	28	0,15			
PS12250	S-12	0,25	12	153	38	38	0,30			
PS14350	S-14	0,35	14	190	50	50	0,50			
PS16500	S-16	0,50	16	230	63	63	0,80			
PS20750	S-20	0,75	20	267	76	76	1,50			
PS221000	S-22	1,00	22	305	88	88	2,00			
PS261300	S-26	1,30	26	331	100	100	3,20			
PS281500	S-28	1,50	28	380	115	115	4,20			
PS322000	S-32	2,00	32	407	127	127	6,00			



GRADE 80 ACCESSORIES



Entretien & Maintenance



Maintenance

Periodic inspection should be done, based on the application conditions, at regular intervals at least once a year. The following points should be taken into account.

- Chains with deformed links, with fractures or cracks should be removed along with any accessory deformed master rings, open hooks and other components showing signs of wear.
- Wear on the chain and the components should not exceed 10% of the original dimensions. Wearing of chain link shall be maximum 10%, it is defined as the reduction of the material diameter measured in both directions.
- Overloaded chain slings should be withdrawn from use; the maximum permitted chain lengthening is 5% and the maximum increase allowed in the hook opening is 10%. Beyond these points, they should be withdrawn from use.

Care

- Keep a record of all slings in use.
- Make sure that the chain is free, ie it has no knots or twists.
- The chain slings can only be shortened using a shortening hook.
- If the load has sharp edges, protect it appropriately.
- Centre the load on the hook, never load on the hook tip.
- Always use the right sized sling for the corresponding load, do take into account the angle and possibility of an unequal load.
- The main ring should move freely in the crane hook.
- Always avoid tugging when raising loads.
- Never let the load fall on the chain.



GRADE 80

MAXIMUM WORK LOADS IN TONNES

"NEWS" SEE STAINLESS CHAIN SLINGS

1 LEG		2 LEGS		3 LEGS	4 LEGS	ENDLESS SLING IN HANGING
CHAIN Ø (MM.)	M.W.L.	0° < β ≤ 45° FACTOR 1,4	45° < β ≤ 60° FACTOR 1,0	0° < β ≤ 45° FACTOR 2,1	45° < β ≤ 60° FACTOR 1,5	FACTOR 1,6
6	1,12	1,60	1,12	2,36	1,70	1,90
9	2,00	2,80	2,00	4,25	3,00	3,15
10	3,15	4,25	3,16	6,70	4,75	5,00
13	5,30	7,50	5,30	11,20	8,00	8,50
16	8,00	11,20	8,00	17,00	11,80	12,50
29	12,50	17,00	12,50	26,50	19,90	20,00
22	15,00	21,20	15,00	31,50	22,40	23,60
26	21,20	30,80	21,20	45,00	31,50	33,50
32	31,50	45,00	31,50	64	47	50,00

NOTE: SAFETY FACTOR 4:1. THE MAXIMUM CAPACITY OF WORKLOADS IS REFERRED TO THE NORMAL WORKING CONDITIONS AND WITH LOAD UNIFORMLY DISTRIBUTED ON EACH LEG.



Recommendations for handling unbalanced loads

For chain slings with uneven loads maximum workload is recommended to be determined in the following way:

- 2 leg slings calculated as a 1-leg sling as to the M.W.L.
- 3 and 4 leg slings calculated as 2-leg slings as to the M.W.L.

Severe Conditions

The chain and its components should not be used in contact with acids.

Periodic reviews should be carried out when using slings under hard work, corrosion or may be some danger.

For any doubt contact your dealer.

Temperature influence

G.80 chain slings can be used in temperatures of -40 °C without its features being changed.

For high temperatures the maximum workload should be reduced as follows:

SLING TEMPERATURE	REDUCTION IN THE M.W.L.
-40°C to 200°C	None
+200 C to 300°C	10%
+300°C to 400°C	25%

Chain Slings G-80 should not be used at higher temperatures or lower than those indicated.

GRADE 80

ONE LEG CHAIN SLINGS



TYPE **SOS** | TYPE **SAS** | TYPE **SOF** | TYPE **SAF**



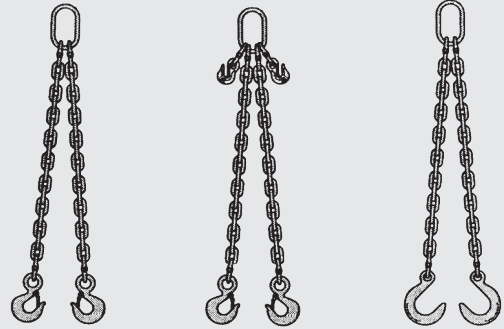
TYPE **SOL** | TYPE **SAL** | TYPE **CO** | TYPE **CAO**



TYPE **SOG** | TYPE **SGG** | TYPE **SSS** | TYPE **SFF** | TYPE **SLL**

GRADE 80

TWO LEG CHAIN SLINGS



TYPE **DOS** | TYPE **DAS** | TYPE **DOF**



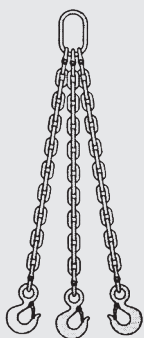
TYPE **DAF** | TYPE **DOL** | TYPE **DAL**



TYPE **DOO** | TYPE **DAO** | TYPE **DOG**

GRADE 80

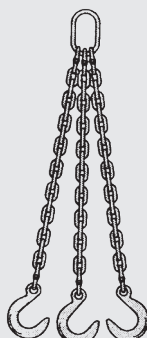
THREE LEG CHAIN SLINGS



TYPE **TOS**



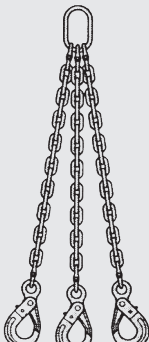
TYPE **TAS**



TYPE **TOF**



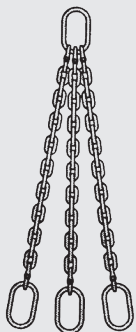
TYPE **TAF**



TYPE **TOL**



TYPE **TAL**



TYPE **TOO**



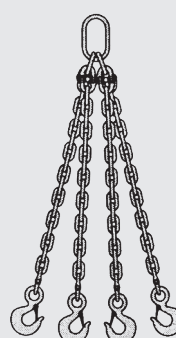
TYPE **TAO**



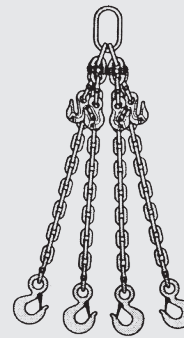
TYPE **TOG**

GRADE 80

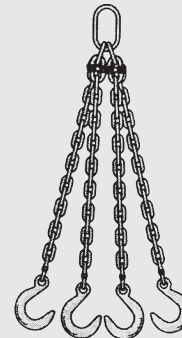
FOUR LEG CHAIN SLINGS



TYPE **QOS**



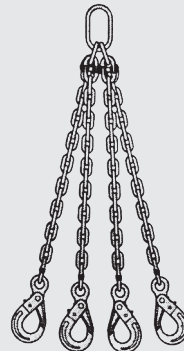
TYPE **QAS**



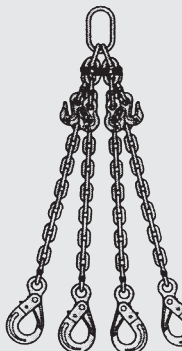
TYPE **QOF**



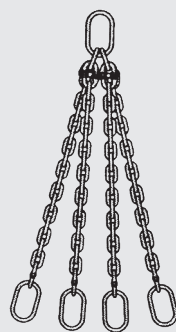
TYPE **QAF**



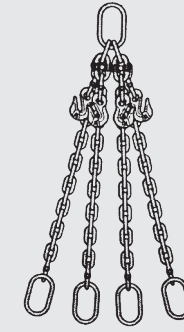
TYPE **QOL**



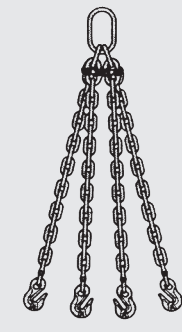
TYPE **QAL**



TYPE **QOO**



TYPE **QAO**



TYPE **QOG**

GRADE 80

DIFFERENT CHAIN SLINGS



TYPE
GARZA RECIGIBLE

TYPE
SENCILLO DE CESTO

TYPE
DOBLE LAZO AJUSTABLE

TYPE
DOBLE CANASTA

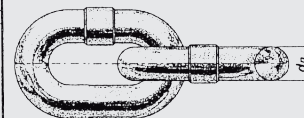
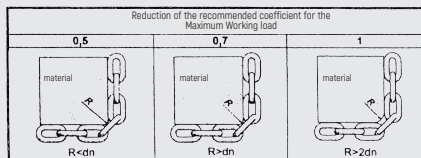
GRADE 80

MAXIMUM WORK LOADS IN TONNES

CHAIN Ø (MM.)	W.M.L.				
		0° < β ≤ 45° FACTOR 1,1	45° < β ≤ 60° FACTOR 0,8	0° < β ≤ 45° FACTOR 1,7	45° < β ≤ 60° FACTOR 1,2
6	1,12	1,23	0,89	1,90	1,34
8	2,00	2,20	1,60	3,40	2,40
10	3,15	3,46	2,52	5,35	3,78
13	5,30	5,83	4,24	9,01	6,36
16	8,00	8,80	6,40	13,60	9,60
20	12,50	13,75	10,00	21,25	15,00
22	15,00	16,50	12,00	25,50	18,00
26	21,20	23,32	16,96	36,04	25,44
32	31,50	34,65	25,20	53,55	37,80

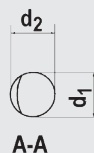
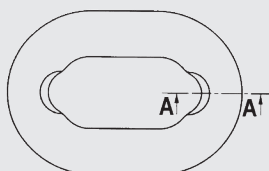
NOTE: SAFETY FACTOR 4:1. THE MAXIMUM CAPACITY OF WORKLOADS IS REFERRED TO THE NORMAL WORKING CONDITIONS AND WITH LOAD UNIFORMLY DISTRIBUTED ON EACH LEG.

COEFFICIENT
REDUCTION DUE
TO SHARP EDGES



CHAIN REPLACEMENTS

$$\frac{d_1 + d_2}{2} > 0,9 d_n$$



At least once a year and at regular intervals periodic inspection must be carried out under the application condition.

Wear caused by friction with other objects usually occurs on the outside of the straight portions of the links, where it is easily visible and measurable. Wear between adjacent links is hidden.

The chain should be loosened and turn the adjacent links, so both sides are visible inside the links. Wear between links is measured by taking the indicated diameter (d 1) and the diameter at 90 ° (d2), and it is accepted if the average of these diameters is not less than 90% of the nominal diameter (dn).