

YOKE[®]

Safety is our first priority[™]

DA[™]
Offshore Lifting

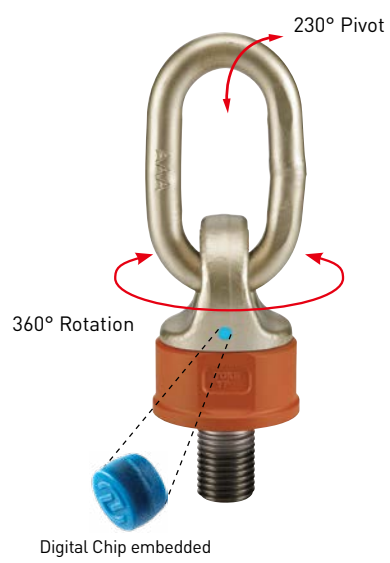
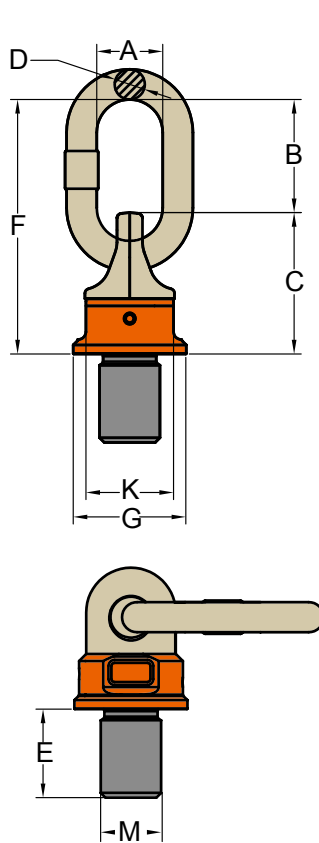
DNV 2.7-1 TYPE APPROVAL

Offshore Container Lifting Operation

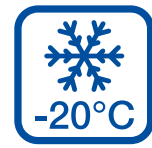


Catalog No. 8-2023 Offshore





- Pivots to 230°, rotates through 360° due to its unique ball bearing design.
- Manufactured from forged alloy steel, quenched and tempered.
- Tested in accordance with DNV GL–ST-0378.
- Certified by DNV GL–ST-0378.
- Load rated parts are 100% magnaflux crack detected.
- Individual forged parts and batch code links to Test Certificate sheet.
- Bolts are Metric thread.
- Proof tested to 2.5 times the WLL.
- Fatigue rated to 20,000 cycles at 1.5 times the WLL.
- All YOKE Lifting points meet or exceed all the requirements of ASME B30.26.
- Easy to attach or dismantle due to the forged hexagon shaped body of the DA Swivel Point.
- Capable of rotating under load. Do not turn continuously in 90 degree direction at full load.



DA Swivel Point

Metric Thread (DA-271)

DNV GL-ST-0378
(Offshore and Platform Lifting Appliance)



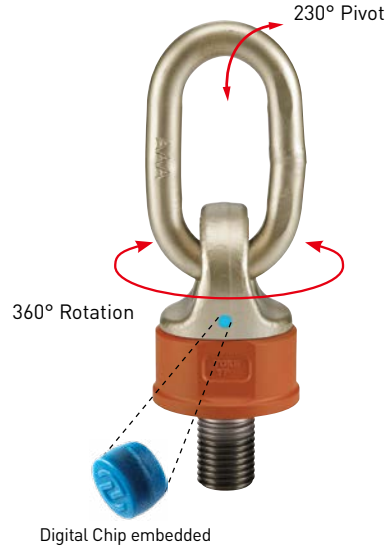
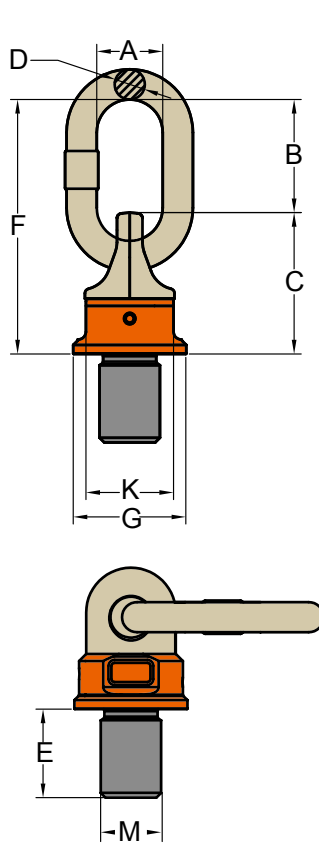
Item No.	Working Load Limit tonnes	Thread version			Dimensions (mm)								Torque in Nm	N.W. kg
		M	E	Pitch DIN13	G	C	K	H	F	D	B	A		
DA-271-003	0.4	M 8	12	1.25	35	40	30	16	72	8	32	29	10	0.2
DA-271-004	0.6	M 10	15	1.50	35	40	30	16	72	8	32	29	10	0.2
DA-271-006	0.7	M 12	18	1.75	40	45	36	18	95	10	50	35	10	0.3
DA-271-013	1.5	M 16	24	2.00	46	54	41	22	104	13	50	36	30	0.5
DA-271-020	2.5	M 20	30	2.50	62	68	55	29	122	13	54	36	70	1.0
DA-271-035	4.0	M 24	36	3.00	78	88	70	36	154	19	66	41	150	2.2
DA-271-060	6.0	M 30	45	3.50	90	120	80	48	206	22	86	50	350	4.5
DA-271-080	10.0	M 36	54	4.00	90	120	80	48	206	22	86	50	410	4.6
DA-271-120	13.0	M 42	63	4.50	98	122	84	50	235	25	110	67	550	5.5
DA-271-130	14.0	M 48	72	5.00	98	122	84	50	235	25	110	67	550	6.1
DA-271-140	20.0	M 52	78	5.00	120	150	94	60	270	32	120	72	750	10.5
DA-271-160	20.0	M 56	84	5.50	120	150	94	60	270	32	120	72	800	10.7
DA-271-161	20.0	M 64	96	6.00	120	150	94	60	270	32	120	72	800	11.6

*Design factor 4:1 proof tested and certified.

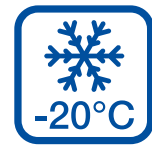




Kind of attachment											
	1	2	1	2	2	2	2	3-4	3-4	3-4	
Number of legs	1	2	1	2	2	2	2	3-4	3-4	3-4	
Load direction	0°	0°	90°	90°	0-45°	45°- 60°	unsymm.	0 - 45°	45°- 60°	unsymm.	
Item No.	Thread	WLL(t)									
DA-271-003	M 8	0.6	1.2	0.4	0.8	0.56	0.4	0.4	0.84	0.60	0.4
DA-271-004	M10	0.9	1.8	0.6	1.2	0.84	0.6	0.6	1.26	0.90	0.6
DA-271-006	M12	1.2	2.4	0.7	1.4	0.98	0.7	0.7	1.47	1.05	0.7
DA-271-013	M16	2.6	5.2	1.5	3.0	2.10	1.5	1.5	3.15	2.25	1.5
DA-271-020	M20	4.0	8.0	2.5	5.0	3.50	2.5	2.5	5.25	3.75	2.5
DA-271-035	M24	7.0	14.0	4.0	8.0	5.60	4.0	4.0	8.40	6.00	4.0
DA-271-060	M30	10.0	20.0	6.0	12.0	8.40	6.0	6.0	12.60	9.00	6.0
DA-271-080	M36	15.0	30.0	10.0	20.0	14.00	10.0	10.0	21.00	15.00	10.0
DA-271-120	M42	17.0	34.0	13.0	26.0	18.20	13.0	13.0	27.30	19.50	13.0
DA-271-130	M48	18.0	36.0	14.0	28.0	19.60	14.0	14.0	29.40	21.00	14.0
DA-271-140	M52	25.0	50.0	20.0	40.0	28.00	20.0	20.0	42.00	30.00	20.0
DA-271-160	M56	28.0	56.0	20.0	40.0	28.00	20.0	20.0	42.00	30.00	20.0
DA-271-161	M64	28.0	56.0	20.0	40.0	28.00	20.0	20.0	42.00	30.00	20.0



- Pivots to 230°, rotates through 360° due to its unique ball bearing design.
- Manufactured from forged alloy steel, quenched and tempered.
- Tested in accordance with DNV GL–ST-0378.
- Load rated parts are 100% magnaflux crack detected.
- Individual forged parts and batch code links to Test Certificate sheet.
- Bolts are UNC thread.
- Proof tested to 2.5 times the WLL.
- Fatigue rated to 20,000 cycles at 1.5 times the WLL.
- All YOKE Lifting points meet or exceed all the requirements of ASME B30.26.
- Easy to attach or dismantle due to the forged hexagon shaped body of the DA Swivel Point.
- Capable of rotating under load. Do not turn continuously in 90 degree direction at full load.



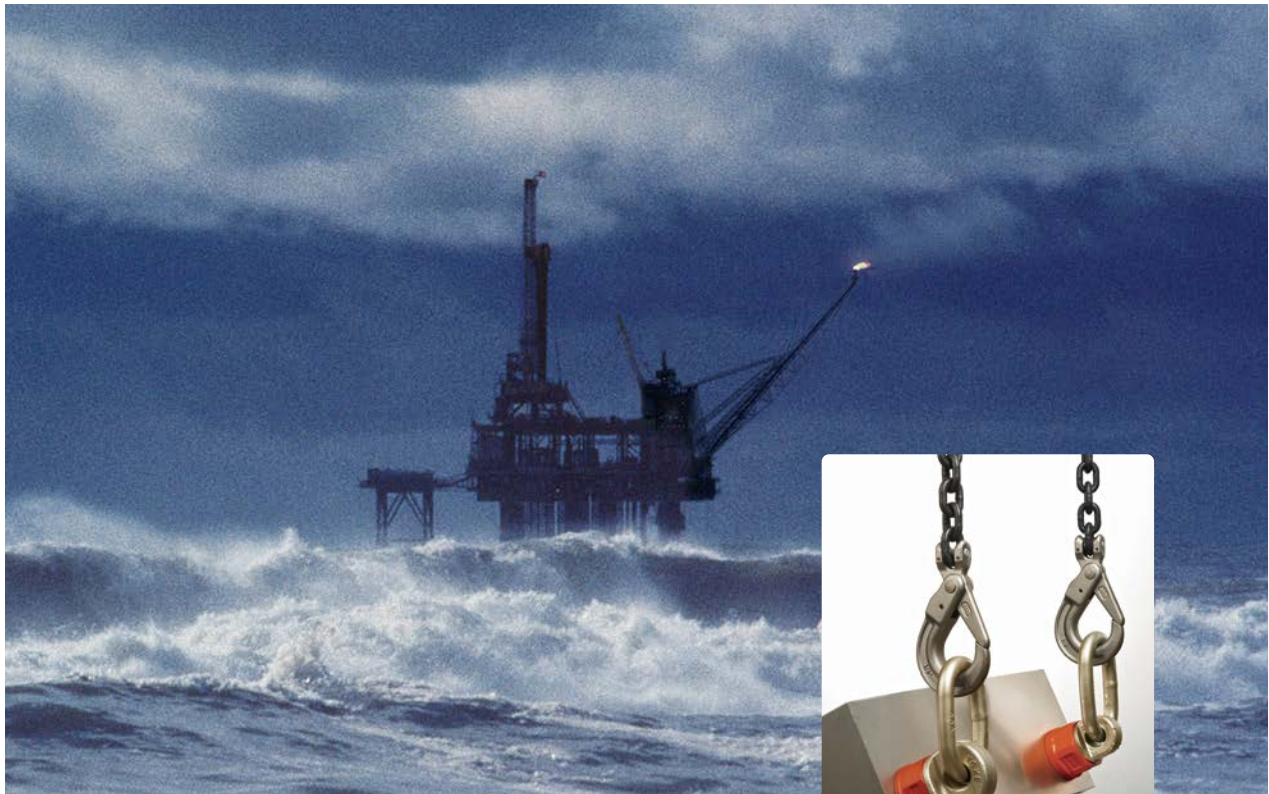
DA Swivel Point

UNC Thread (DA-272)

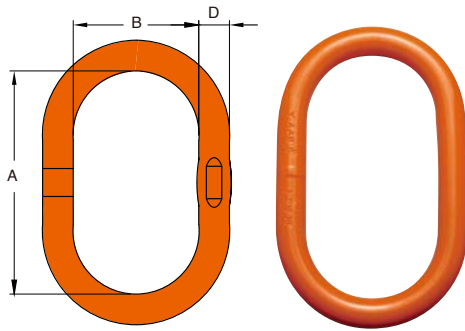
Item No.	Working Load Limit	Thread version			Dimensions (inch)								Torque in Nm	N.W. lbs
		M	E	TPI	G	C	K	H	F	D	B	A		
		inch	inch		inch	inch	inch	inch	inch	inch	inch	inch		
DA-272-006	0.7	1/2	0.75	13UNC	1.57	1.77	1.42	0.71	3.74	0.39	1.97	1.38	15	0.7
DA-272-013	1.5	5/8	0.94	11UNC	1.81	2.13	1.61	0.87	4.09	0.51	1.97	1.42	45	1.2
DA-272-018	2.0	3/4	1.13	10UNC	1.81	2.68	1.61	0.87	4.09	0.51	1.97	1.42	45	1.2
DA-272-020	2.5	7/8	1.31	9UNC	2.44	2.68	2.17	1.14	4.80	0.51	2.13	1.42	100	2.2
DA-272-035	4.0	1	1.50	8UNC	3.07	3.46	2.76	1.42	6.06	0.75	2.60	1.61	190	4.8
DA-272-060	6.0	1 1/4	1.88	7UNC	3.54	4.72	3.15	1.89	8.11	0.87	3.39	1.97	270	9.9
DA-272-080	10.0	1 1/2	2.25	6UNC	3.54	4.72	3.15	1.89	8.11	0.87	3.39	1.97	270	10.0
DA-272-120	13.0	1 3/4	2.63	5UNC	3.86	4.80	3.31	1.97	9.25	0.98	4.33	2.64	350	12.1
DA-272-130	14.0	2	3.00	4.5UNC	3.86	4.80	3.31	1.97	9.25	0.98	4.33	2.64	350	13.5
DA-272-140	20.0	2 1/4	3.38	4.5UNC	4.72	5.91	3.70	2.36	10.63	1.26	4.72	2.85	350	23.1
DA-272-160	20.0	2 1/2	3.75	4UNC	4.72	5.91	3.70	2.36	10.63	1.26	4.72	2.85	350	23.5

*Design factor 4:1 proof tested and certified.





Kind of attachment											
Number of legs	1	2	1	2	2	2	2	3-4	3-4	3-4	
Load direction	0°	0°	90°	90°	0-45°	45°- 60°	unsymm.	0 - 45°	45°- 60°	unsymm.	
Item No.	Thread	WLL(t)									
DA-272-006	1/2	1.2	2.4	0.7	1.4	0.98	0.7	0.7	1.47	1.05	0.7
DA-272-013	5/8	2.6	5.2	1.5	3.0	2.10	1.5	1.5	3.15	2.25	1.5
DA-272-018	3/4	3.6	7.2	2.0	4.0	2.80	2.0	2.0	4.20	3.00	2.0
DA-272-020	7/8	4.0	8.0	2.5	5.0	3.50	2.5	2.5	5.25	3.75	2.5
DA-272-035	1	7.0	14.0	4.0	8.0	5.60	4.0	4.0	8.40	6.00	4.0
DA-272-060	1 1/4	10.0	20.0	6.0	12.0	8.40	6.0	6.0	12.60	9.00	6.0
DA-272-080	1 1/2	15.0	30.0	10.0	20.0	14.00	10.0	10.0	21.00	15.00	10.0
DA-272-120	1 3/4	17.0	34.0	13.0	26.0	18.20	13.0	13.0	27.30	19.50	13.0
DA-272-130	2	18.0	36.0	14.0	28.0	19.60	14.0	14.0	29.40	21.00	14.0
DA-272-140	2 1/4	25.0	50.0	20.0	40.0	28.00	20.0	20.0	42.00	30.00	20.0
DA-272-160	2 1/2	28.0	56.0	20.0	40.0	28.00	20.0	20.0	42.00	30.00	20.0



- Welded alloy steel, quenched and tempered.
- Tested and manufactured in accordance with DNV GL ST-2.7-1, EN 1677-4, ASME B30.26.
- Certified by DNV GL ST-2.7-1.
- Fatigue rated to 20,000 cycles at 1.5 times the Working Load Limit (WLL).
- Charpy tested in accordance with DNV GL ST-2.7-1.
- Proof Load tested to 2.5 times the Working Load Limit (WLL).
- Design factor 5:1.
- Charpy test of 42 joules (31ft. lbs.) at -40°C (-40°F) for normal section.
- Charpy test of 27 joules (20ft. lbs.) at -40°C (-40°F) for welded section.

DA Master Link

DNV GL ST-2.7-1
(Offshore Containers)



"can be used to single hook according to DIN 15401 NO."

Item No.	Code NO.	WLL β 0-45° tonnes	Proof Load kN	"can be used to single hook according to DIN 15401 NO."	Dimensions (inch)			N.W. lbs
					D	A	B	
DA-001-13	FD-13	2.8	69	2.5	0.51	4.72	2.36	0.8
DA-001-16	FD-16	4.0	98	6.0	0.63	6.30	3.54	1.6
DA-001-19	FD-19	6.7	164	6.0	0.75	6.30	3.54	2.4
DA-001-22	FD-22	8.9	218	8.0	0.87	7.09	3.94	3.6
DA-001-223	FD-223	6.3	154	16.0	0.87	10.63	5.51	5.0
DA-001-25	FD-25	11.5	282	10.0	0.98	8.27	4.53	5.3
DA-001-251	FD-251	11.5	282	16.0	0.98	10.83	5.71	6.7
DA-001-28	FD-28	13.0	319	16.0	1.10	10.83	5.71	8.5
DA-001-32	FD-32	17.1	419	16.0	1.26	10.83	5.71	11.3
DA-001-36	FD-36	24.0	588	20.0	1.42	11.22	6.10	15.1
DA-001-40	FD-40	28.1	688	20.0	1.57	11.81	6.30	19.7
DA-001-45	FD-45	38.3	938	25.0	1.77	13.39	7.09	28.2
DA-001-50	FD-50	45.0	1103	32.0	1.97	13.78	7.68	36.6

*Welded Master Link *Design Factor 5:1 *Proof tested at 2.5 times the WLL

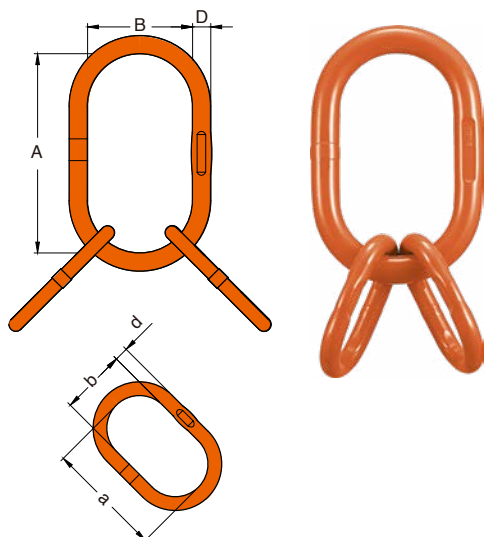
"can be used to single hook according to DIN 15401 NO."

Item No.	Code NO.	WLL β 0-45° tonnes	Proof Load kN	"can be used to single hook according to DIN 15401 NO."	Dimensions (mm)			N.W. kg
					D	A	B	
DA-001-13	FD-13	2.8	69	2.5	13	120	60	0.4
DA-001-16	FD-16	4.0	98	6.0	16	160	90	0.7
DA-001-19	FD-19	6.7	164	6.0	19	160	90	1.1
DA-001-22	FD-22	8.9	218	8.0	22	180	100	1.6
DA-001-223	FD-223	6.3	154	16.0	22	270	140	2.3
DA-001-25	FD-25	11.5	282	10.0	25	210	115	2.4
DA-001-251	FD-251	11.5	282	16.0	25	275	145	3.1
DA-001-28	FD-28	13.0	319	16.0	28	275	145	3.9
DA-001-32	FD-32	17.1	419	16.0	32	275	145	5.1
DA-001-36	FD-36	24.0	588	20.0	36	285	155	6.9
DA-001-40	FD-40	28.1	688	20.0	40	300	160	8.9
DA-001-45	FD-45	38.3	938	25.0	45	340	180	12.8
DA-001-50	FD-50	45.0	1103	32.0	50	350	195	16.6

Sub-links SPEC for DA-007. Items in grey area are not for sale individually.

DA-001-131	FD-131	2.8	69	1.6	13	90	50	0.3
DA-001-161	FD-161	4.0	98	4.0	16	140	70	0.6
DA-001-191	FD-191	6.7	164	4.0	19	140	70	0.9
DA-001-221	FD-221	8.9	218	6.0	22	140	70	1.3
DA-001-222	FD-222	8.9	218	6.0	22	162	90	1.5
DA-001-281	FD-281	13.0	319	8.0	28	190	100	2.8
DA-001-282	FD-282	14.5	355	10.0	28	200	110	3.0
DA-001-361	FD-361	24.0	588	16.0	36	275	145	6.6
DA-001-401	FD-401	28.1	688	12.0	40	260	130	7.8

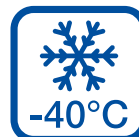




- Welded alloy steel, quenched and tempered.
- Tested and manufactured in accordance with DNV GL ST-2.7-1, EN 1677-4, ASME B30.26.
- Certified by DNV GL ST-2.7-1.
- Fatigue rated to 20,000 cycles at 1.5 times the Working Load Limit (WLL).
- Charpy tested in accordance with DNV GL ST-2.7-1.
- Proof Load tested to 2.5 times the Working Load Limit (WLL).
- Design factor 5:1.
- Charpy test of 42 joules (31ft. lbs.) at -40°C (-40°F) for normal section.
- Charpy test of 27 joules (20ft. lbs.) at -40°C (-40°F) for welded section.

DA Master Link Assembly

DNV GL ST-2.7-1
(Offshore Containers)



Item No.	Assembled with.	WLL β 0-45° tonnes	Proof Load kN	"can be used to single hook according to DIN 15401 NO."	Dimensions (inch)						N.W. lbs
					D	A	B	d	a	b	
DA-007-16	FD-161 +2 FD-131	4.1	100	4	0.63	5.51	2.76	0.51	3.54	1.97	2.7
DA-007-22	FD-222 +2 FD-191	8.9	218	6	0.87	6.38	3.54	0.75	5.51	2.76	7.4
DA-007-221	FD-223 +2 FD-161	6.3	154	16	0.87	10.63	5.51	0.63	5.51	2.76	7.9
DA-007-25	FD-251 +2 FD-19	8.9	218	16	0.98	10.83	5.71	0.75	6.30	3.54	11.5
DA-007-28	FD-28 +2 FD-22	12.9	316	16	1.10	10.83	5.71	0.87	7.09	3.94	15.7
DA-007-281	FD-282 +2 FD-221	14.5	355	10	1.10	7.87	4.33	0.87	5.51	2.76	12.2
DA-007-32	FD-32 +2 FD-25	17.0	417	16	1.26	10.83	5.71	0.98	8.27	4.53	22.0
DA-007-36	FD-361 +2 FD-281	23.6	578	16	1.42	10.83	5.71	1.10	7.48	3.94	26.9
DA-007-40	FD-40 +2 FD-32	28.1	688	20	1.57	11.81	6.30	1.26	10.83	5.71	42.4
DA-007-45	FD-45 +2 FD-36	38.3	938	25	1.77	13.39	7.09	1.42	11.22	6.10	58.4
DA-007-50	FD-50 +2 FD-401	45.0	1103	32	1.97	13.78	7.68	1.57	10.24	5.12	71.1

*Welded Master Link

*Design Factor 5:1

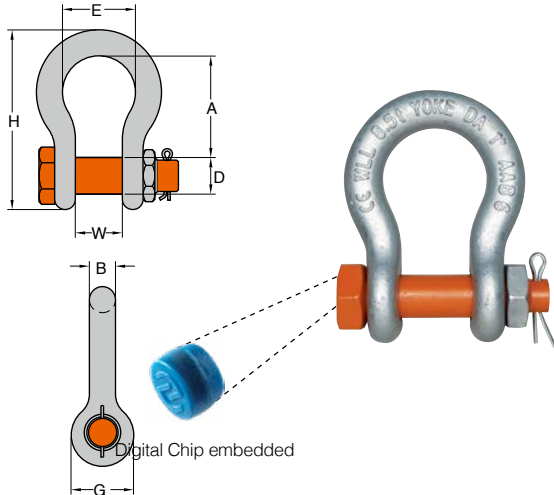
*Proof tested at 2.5 times the WLL

Item No.	Assembled with.	WLL β 0-45° tonnes	Proof Load kN	"can be used to single hook according to DIN 15401 NO."	Dimensions (mm)						N.W. kg
					D	A	B	d	a	b	
DA-007-16	FD-161 +2 FD131	4.1	100	4	16	140	70	13	90	50	1.2
DA-007-22	FD-222 +2 FD191	8.9	218	6	22	162	90	19	140	70	3.3
DA-007-221	FD-223 +2 FD161	6.3	154	16	22	270	140	16	140	70	3.6
DA-007-25	FD-251 +2 FD-19	8.9	218	16	25	275	145	19	160	90	5.2
DA-007-28	FD-28 +2 FD-22	12.9	316	16	28	275	145	22	180	100	7.1
DA-007-281	FD-282 +2 FD-221	14.5	355	10	28	200	110	22	140	70	5.5
DA-007-32	FD-32 +2 FD-25	17.0	417	16	32	275	145	25	210	115	10.0
DA-007-36	FD-361 +2 FD-281	23.6	578	16	36	275	145	28	190	100	12.2
DA-007-40	FD-40 +2 FD-32	28.1	688	20	40	300	160	32	275	145	19.2
DA-007-45	FD-45 +2 FD-36	38.3	938	25	45	340	180	36	285	155	26.5
DA-007-50	FD-50 +2 FD-401	45.0	1103	32	50	350	195	40	260	130	32.3

*Welded Master Link

*Design Factor 5:1

*Proof tested at 2.5 times the WLL



- Forged alloy steel, quenched and tempered.
- Tested and manufactured in accordance with DNV GL ST-2.7-1, DNV GL-ST-0378, EN 13889, ASME B30.26, U.S. Fed. Spec. RR-C-271F Type IVA, Grade A, Class 3.
- Certified by DNV GL ST-2.7-1.
- Fatigue rated to 20,000 cycles at 1.5 times the Working Load Limit (WLL).
- Charpy tested in accordance with DNV GL ST-2.7-1.
- Hot dip galvanized.
- Charpy test of 42 joules (31ft. lbs.) at -40°C (-40°F) for normal section.

DA 838 Shackle

Grade 6

**DNV GL ST-2.7-1
(Offshore Containers)**



Item No.	Nominal Size	Working Load Limit	Dimensions (inch)							N.W.
			inch	tonnes*	A	B	D	E	G	
DA-838-13	1/2	2.00	1.93	0.52	0.63	1.30	1.18	3.34	0.79	0.9
DA-838-16	5/8	3.25	2.40	0.63	0.75	1.70	1.50	4.17	1.06	1.5
DA-838-19	3/4	4.75	2.83	0.75	0.87	1.97	1.81	5.04	1.30	2.2
DA-838-22	7/8	6.50	3.39	0.87	0.98	2.28	2.09	5.91	1.50	3.7
DA-838-26	1	8.50	3.78	1.02	1.10	2.68	2.40	6.57	1.73	5.3
DA-838-28	1- 1/8	9.50	4.37	1.10	1.26	2.91	2.68	7.52	1.81	7.5
DA-838-32	1- 1/4	12.00	4.84	1.26	1.42	3.30	2.99	8.07	2.12	10.6
DA-838-36	1- 3/8	13.50	5.28	1.42	1.50	3.62	3.31	9.13	2.32	14.3
DA-838-38	1- 1/2	17.00	5.57	1.50	1.69	3.90	3.62	10.00	2.36	19.4
DA-838-45	1- 3/4	25.00	7.00	1.85	2.00	5.00	4.17	12.32	2.87	38.5
DA-838-50	2	35.00	7.76	2.09	2.24	5.75	4.80	13.66	3.27	53.2
DA-838-64	2- 1/2	** 55.00	10.51	2.62	2.76	7.24	5.91	17.95	4.13	95.7
DA-838-76	3	** 85.00	12.99	3.11	3.25	7.87	6.61	21.57	5.00	178.2
DA-838-89	3- 1/2	**120.00	14.65	3.62	3.76	9.02	7.99	24.65	5.24	264.0
DA-838-100	4	**150.00	14.49	4.09	4.25	10.00	9.02	25.71	5.51	336.6

*2t to 35t are type approved of DNV 2.7-1. Minimum Ultimate Load is 6 times the Working Load Limit.

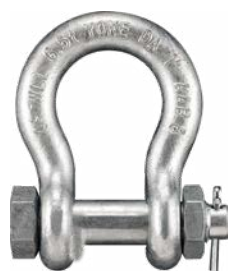
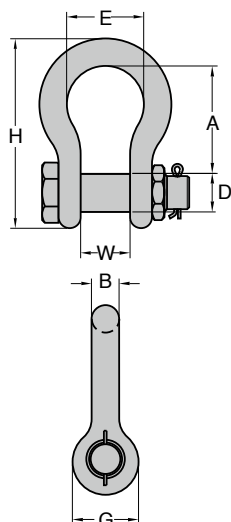
**55t to 150t meet all requirements of DNV 2.7-1. Minimum Ultimate Load is 6 times the Working Load Limit.

Item No.	Nominal Size	Working Load Limit	Dimensions (mm)							N.W.
			mm	tonnes*	A	B	D	E	G	
DA-838-13	13	2.00	49	13.0	16	33	30	85	20	0.4
DA-838-16	16	3.25	61	16.0	19	43	38	106	27	0.7
DA-838-19	19	4.75	72	19.0	22	50	46	126	33	1.0
DA-838-22	22	6.50	86	22.0	25	58	53	148	38	1.7
DA-838-26	26	8.50	96	26.0	28	68	61	166	44	2.4
DA-838-28	28	9.50	111	28.0	32	74	68	190	46	3.4
DA-838-32	32	12.00	123	32.0	36	84	76	210	54	4.8
DA-838-36	36	13.50	134	36.0	38	92	84	232	59	6.5
DA-838-38	38	17.00	146	38.0	43	99	92	254	60	8.8
DA-838-45	45	25.00	178	47.0	51	127	106	313	73	17.5
DA-838-50	50	35.00	197	53.0	57	146	122	347	83	24.2
DA-838-64	64	** 55.00	267	66.5	70	184	150	456	105	43.5
DA-838-76	76	** 85.00	330	79.0	82.5	200	168	548	127	81.0
DA-838-89	89	**120.00	372	92.0	95.5	229	203	626	133	120.0
DA-838-100	100	**150.00	368	104.0	108	254	229	653	140	153.0

*2t to 35t are type approved of DNV 2.7-1. Minimum Ultimate Load is 6 times the Working Load Limit.

**55t to 150t meet all requirements of DNV 2.7-1. Minimum Ultimate Load is 6 times the Working Load Limit.





- Forged alloy steel, quenched and tempered.
- Tested and manufactured in accordance with DNV GL ST-2.7-1, DNV GL-ST-0378, EN 13889, ASME B30.26, U.S. Fed. Spec. RR-C-271F Type IVA, Grade A, Class 3.
- Certified by DNV GL ST-2.7-1.
- Fatigue rated to 20,000 cycles at 1.5 times the Working Load Limit (WLL).
- Charpy tested in accordance with DNV GL ST-2.7-1.
- Hot dip galvanized.
- Charpy test of 42 joules (31ft. lbs.) at -40°C (-40°F) for normal section.

DA 808 Shackle

Grade 8

**DNV GL ST-2.7-1
(Offshore Containers)**



Item No.	Nominal Size	Working Load Limit tonnes*	Dimensions (inch)							N.W. lbs
	inch		A	B	D	E	G	H	W	
DA-808-13	1/2	2.00	1.93	0.52	0.63	1.30	1.18	3.34	0.79	0.9
DA-808-16	5/8	3.25	2.40	0.63	0.75	1.70	1.50	4.17	1.06	1.5
DA-808-19	3/4	4.75	2.83	0.75	0.87	1.97	1.81	5.04	1.30	2.2
DA-808-22	7/8	6.50	3.39	0.87	0.98	2.28	2.09	5.91	1.50	3.7
DA-808-26	1	8.50	3.78	1.02	1.10	2.68	2.40	6.57	1.73	5.3
DA-808-28	1- 1/8	9.50	4.37	1.10	1.26	2.91	2.68	7.52	1.81	7.5
DA-808-32	1- 1/4	12.00	4.84	1.26	1.42	3.30	2.99	8.07	2.12	10.6
DA-808-36	1- 3/8	13.50	5.28	1.42	1.50	3.62	3.31	9.13	2.32	14.3
DA-808-38	1- 1/2	17.00	5.57	1.50	1.69	3.90	3.62	10.00	2.36	19.4
DA-808-45	1- 3/4	25.00	7.00	1.85	2.00	5.00	4.17	12.32	2.87	38.5
DA-808-50	2	35.00	7.76	2.09	2.24	5.75	4.80	13.66	3.27	53.2
DA-808-64	2- 1/2	** 85.00	10.51	2.62	2.76	7.24	5.91	17.95	4.13	95.7
DA-808-76	3	**120.00	12.99	3.11	3.25	7.87	6.61	21.57	5.00	178.2
DA-808-89	3- 1/2	**150.00	14.65	3.62	3.76	9.02	7.99	24.65	5.24	264.0
DA-808-100	4	**175.00	14.49	4.09	4.25	10.00	9.02	25.71	5.51	336.6

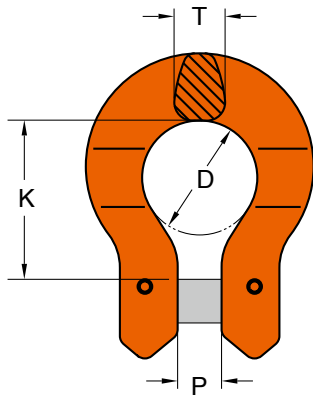
*2t to 35t are type approved of DNV 2.7-1. Minimum Ultimate Load is 8 times the Working Load Limit.

**85t to 175t meet all requirements of DNV 2.7-1. Minimum Ultimate Load is 5.4 times the Working Load Limit.

Item No.	Nominal Size	Working Load Limit tonnes*	Dimensions (mm)							N.W. kg
	mm		A	B	D	E	G	H	W	
DA-808-13	13	2.00	49	13.0	16.0	33	30	85	20	0.4
DA-808-16	16	3.25	61	16.0	19.0	43	38	106	27	0.7
DA-808-19	19	4.75	72	19.0	22.0	50	46	126	33	1.0
DA-808-22	22	6.50	86	22.0	25.0	58	53	148	38	1.7
DA-808-26	26	8.50	96	26.0	28.0	68	61	166	44	2.4
DA-808-28	28	9.50	111	28.0	32.0	74	68	190	46	3.4
DA-808-32	32	12.00	123	32.0	36.0	84	76	210	54	4.8
DA-808-36	36	13.50	134	36.0	38.0	92	84	232	59	6.5
DA-808-38	38	17.00	146	38.0	43.0	99	92	254	60	8.8
DA-808-45	45	25.00	178	47.0	51.0	127	106	313	73	17.5
DA-808-50	50	35.00	197	53.0	57.0	146	122	347	83	24.2
DA-808-64	64	** 85.00	267	66.5	70.0	184	150	456	105	43.5
DA-808-76	76	**120.00	330	79.0	82.5	200	168	548	127	81.0
DA-808-89	89	**150.00	372	92.0	95.5	229	203	626	133	120.0
DA-808-100	100	**175.00	368	104.0	108.0	254	229	653	140	153.0

*2t to 35t are type approved of DNV 2.7-1. Minimum Ultimate Load is 8 times the Working Load Limit.

**85t to 175t meet all requirements of DNV 2.7-1. Minimum Ultimate Load is 5.4 times the Working Load Limit.



- Forged alloy steel, quenched and tempered.
- Tested and manufactured in accordance with EN 1677-1, DNVGL-ST-E271 and DNV GL-ST-E273.
- Certified by DNV GL-ST-E271 and DNV GL-ST-E273.
- Fatigue rated to 20,000 cycles at 1.5 times the Working Load Limit (WLL).
- Charpy tested in accordance with DNV GL-ST-E271.
- Design factor 4:1.
- Charpy test of 42 joules (31ft. lbs.) at -20°C (-4°F)

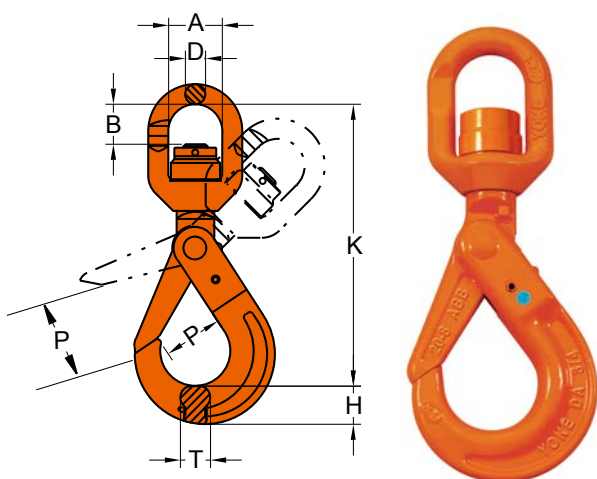
DA Omega Link

**DNV GL ST-2.7-1
(Offshore Containers)**



Item No.	Working Load Limit	For Grade 80 Chain	Dimensions (inch)				N.W.
	tonnes*		inch	D	K	P	
DA-018-06	1.12	7/32	0.83	1.15	0.26	0.35	0.2
DA-018-07	2	9/32,5/16	1.04	1.41	0.37	0.43	0.4
DA-018-10	3.15	3/8	1.26	1.73	0.46	0.57	0.9
DA-018-13	5.3	1/2	1.65	2.18	0.61	0.67	1.8
DA-018-16	8	5/8	1.97	2.73	0.71	0.87	3.5
DA-018-20	12.5	3/4	2.28	3.27	0.85	1.08	4.6

Item No.	Working Load Limit	For Grade 80 Chain	Dimensions (mm)				N.W.
	tonnes*		mm	D	K	P	
DA-018-06	1.12	6	21	29	7	9	0.1
DA-018-07	2	7,8	27	36	9	11	0.2
DA-018-10	3.15	10	32	44	12	15	0.4
DA-018-13	5.3	13	42	55	16	17	0.8
DA-018-16	8	16	50	69	18	22	1.6
DA-018-20	12.5	18,20	58	83	22	28	2.1



- Forged alloy steel, quenched and tempered.
- Tested and manufactured in accordance with EN 1677 and Norsok R002.
- Certified by DNV GL-ST-0378.
- Fatigue rated to 20,000 cycles at 1.5 times the Working Load Limit (WLL).
- Charpy tested in accordance with DNV GL-ST-0378.
- Designed with recessed trigger and ball bearing, providing the locking mechanism being protected against inadvertent opening due to entanglement with any obstruction during lifting.
- Design factor 4:1 and 5:1.
- Latch mechanism is self locking under loading.
- Charpy test of 42 joules (31ft. lbs.) at -20°C (-4°F).



DA Swivel Self Locking Hook

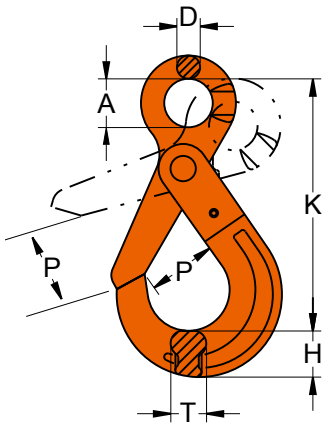
DNV GL-ST-0378
(Offshore and Platform Lifting Appliance)



With Ball Bearing, which performs full swivel under load

Item No.	Working Load Limit		Dimensions (inch)							N.W. lbs
	tonnes		A	B	D	H	K	P	T	
	5:1	4:1								
DA-027N-13W	5.3	6.7	2.40	2.52	0.91	1.54	11.61	2.01	1.18	11
DA-027N-16W	8.0	10.0	2.91	3.66	0.98	1.93	14.53	2.36	1.42	18
DA-027N-20	12.8	16.0	2.91	3.23	0.98	2.56	15.24	2.76	2.09	29
DA-027N-22	15.2	19.0	3.82	3.74	1.30	2.48	17.99	3.15	1.93	44
DA-027N-26	21.2	26.5	4.84	4.53	1.65	2.72	21.06	3.90	2.20	72
DA-027N-32	25.2	31.5	4.84	4.53	1.65	3.19	22.95	4.72	2.48	90

Item No.	Working Load Limit		Dimensions (mm)							N.W. kg
	tonnes		A	B	D	H	K	P	T	
	5:1	4:1								
DA-027N-13W	5.3	6.7	61	64	23	39	295	51	30	5.0
DA-027N-16W	8.0	10.0	74	93	25	49	369	60	36	8.1
DA-027N-20	12.8	16.0	74	82	25	65	387	70	53	13.0
DA-027N-22	15.2	19.0	97	95	33	63	457	80	49	20.0
DA-027N-26	21.2	26.5	123	115	42	69	535	99	56	32.7
DA-027N-32	25.2	31.5	123	115	42	81	583	120	63	41.0



- Forged alloy steel, quenched and tempered.
- Tested and manufactured in accordance with EN 1677 and Norsok R002.
- Certified by DNV GL-ST-0378.
- Fatigue rated to 20,000 cycles at 1.5 times the Working Load Limit (WLL).
- Charpy tested in accordance with DNV GL-ST-0378.
- Designed with recessed trigger, providing the locking mechanism being protected against inadvertent opening due to entanglement with any obstruction during lifting.
- Design factor 4:1 and 5:1.
- Latch mechanism is self locking under loading.
- Charpy test of 42 joules (31ft. lbs.) at -20°C (-4°F).



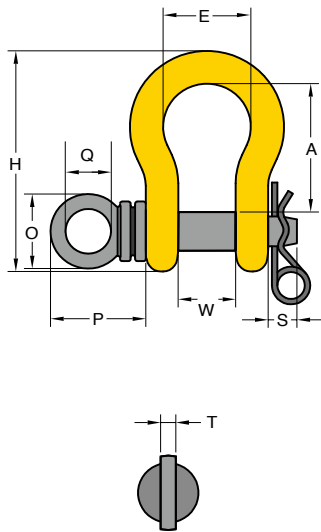
DA Eye Self Locking Hook

DNV GL-ST-0378
(Offshore and Platform Lifting Appliance)



Item No.	Working Load Limit		Dimensions (inch)						N.W. lbs
	tonnes		A	D	H	K	P	T	
	5:1	4:1							
DA-025-13	5.3	6.7	1.57	0.63	1.54	8.15	2.05	1.18	6.6
DA-025-16	8.0	10.0	1.97	0.83	1.93	9.92	2.36	1.42	12.8
DA-025-20	12.8	16.0	2.40	0.91	2.56	11.54	2.76	1.89	22.0
DA-025-22	15.2	19.0	2.76	0.94	2.48	12.56	3.15	1.93	27.5
DA-025-26	21.2	26.5	3.15	0.98	2.72	13.50	3.90	2.20	32.3
DA-025-32	25.2	31.5	3.54	1.10	3.19	15.79	4.72	2.48	57.3

Item No.	Working Load Limit		Dimensions (mm)						N.W. kg
	tonnes		A	D	H	K	P	T	
	5:1	4:1							
DA-025-13	5.3	6.7	40	16	39	207	52	30	3.0
DA-025-16	8.0	10.0	50	21	49	252	60	36	5.8
DA-025-20	12.8	16.0	61	23	65	293	70	48	10.0
DA-025-22	15.2	19.0	70	24	63	319	80	49	12.5
DA-025-26	21.2	26.5	80	25	69	343	99	56	14.7
DA-025-32	25.2	31.5	90	28	81	401	120	63	26.0



ROV: Remotely Operated Vehicle

- Forged alloy steel, quenched and tempered.
- Designed specifically for ROV application.
- Individually stamped with the Working Load Limit.
- Shackle Bows are painted yellow to ensure ease of sight in water.

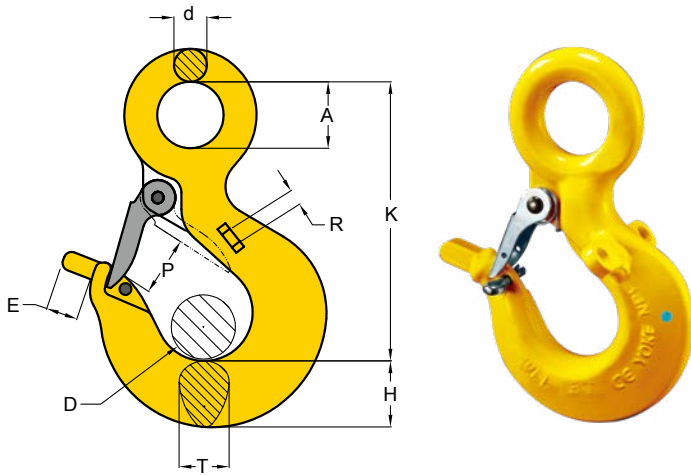
ROV Anchor Shackle with Safety Pin (ROV: Remotely Operated Vehicle)

Item No.	Nominal Size		Working Load Limit tonnes*	Dimensions (inch)									N.W. lbs
	inch	mm		A	E	H	O	P	Q	S	T	W	
8-911-22	7/8	22	6.5	3.39	2.28	5.91	1.96	2.36	1.18	0.87	0.39	1.50	4.0
8-911-26	1	26	8.5	3.78	2.68	6.57	1.96	2.48	1.18	0.91	0.39	1.73	5.5
8-911-28	1 1/8	28	9.5	4.37	2.91	7.52	2.75	3.35	1.38	0.94	0.47	1.81	7.9
8-911-32	1 1/4	32	12.0	4.76	3.30	8.07	2.75	3.35	1.38	1.14	0.47	2.12	10.6
8-911-36	1 3/8	36	13.5	5.28	3.62	9.13	2.95	3.66	1.57	1.22	0.59	2.32	15.0
8-911-38	1 1/2	38	17.0	5.75	3.90	10.00	2.95	3.74	1.57	1.22	0.59	2.36	18.3
8-911-45	1 3/4	45	25.0	7.00	5.00	12.32	3.54	4.48	1.97	1.38	0.71	2.87	36.5
8-911-50	2	50	35.0	7.76	5.75	13.66	4.17	5.19	2.36	1.57	0.78	3.27	51.5

★ Minimum Ultimate Load is 5 times the Working Load Limit.
Maximum Proof Load is 2 times the Working Load Limit.

Item No.	Nominal Size		Working Load Limit tonnes*	Dimensions (mm)									N.W. kg
	inch	mm		A	E	H	O	P	Q	S	T	W	
8-911-22	7/8	22	6.5	86	58	148	50	60	30	22	10	38	1.8
8-911-26	1	26	8.5	96	69	166	50	63	30	23	10	44	2.5
8-911-28	1 1/8	28	9.5	111	74	190	70	85	35	24	12	46	3.6
8-911-32	1 1/4	32	12.0	121	84	210	70	85	35	29	12	54	4.8
8-911-36	1 3/8	36	13.5	134	92	232	75	93	40	31	15	59	6.8
8-911-38	1 1/2	38	17.0	146	99	254	75	95	40	31	15	60	8.3
8-911-45	1 3/4	45	25.0	178	127	313	90	114	50	35	18	73	16.6
8-911-50	2	50	35.0	197	146	347	106	132	60	40	20	83	23.4

★ Minimum Ultimate Load is 5 times the Working Load Limit.
Maximum Proof Load is 2 times the Working Load Limit.



ROV: Remotely Operated Vehicle

- Forged alloy steel, quenched and tempered.
- Designed specifically for ROV application.
- Individually stamped with the Working Load Limit.
- Shackle Bows are painted yellow to ensure ease of sight in water.

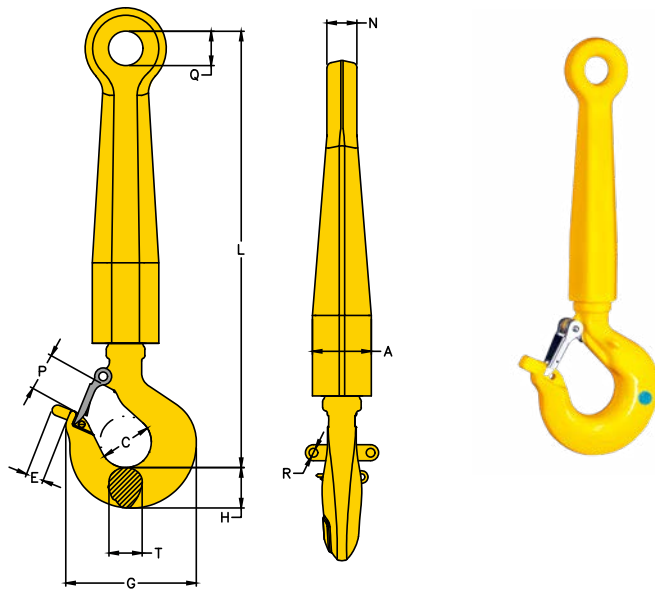
ROV Eye Sling Hook (ROV: Remotely Operated Vehicle)

Item No.	Working Load Limit	Dimensions (inch)									N.W.
	tonnes*	A	D	d	E	H	K	P	R	T	lbs
8-921-03	3.0	1.26	0.98	0.59	0.78	1.14	4.80	0.98	0.31	0.95	2.2
8-921-05	5.0	1.57	1.22	0.71	0.78	1.46	5.87	1.22	0.31	1.22	4.6
8-921-07	7.0	2.00	1.54	0.95	0.78	1.89	7.56	1.54	0.31	1.42	8.8
8-921-11	11.0	2.48	2.24	1.10	1.18	2.20	9.13	2.24	0.31	1.85	15.4
8-921-15	15.0	2.84	2.44	1.30	1.18	2.52	10.24	2.44	0.31	2.05	20.7
8-921-22	22.0	3.58	3.19	1.57	1.96	2.91	12.50	3.19	0.39	2.68	40.9
8-921-30	30.0	3.58	3.27	1.77	1.96	3.62	13.66	3.27	0.39	2.99	68.6

★ Minimum Ultimate Load is 4 times the Working Load Limit.
Maximum Proof Load is 2 times the Working Load Limit.

Item No.	Working Load Limit	Dimensions (mm)									N.W.
	tonnes	A	D	d	E	H	K	P	R	T	kg
8-921-03	3.0	32	25	15	20	29	122	25	8	24	1.0
8-921-05	5.0	40	31	18	20	37	149	31	8	31	2.1
8-921-07	7.0	51	39	24	20	48	192	39	8	36	4.0
8-921-11	11.0	63	57	28	30	56	232	57	8	47	7.0
8-921-15	15.0	72	62	33	30	64	260	62	8	52	9.4
8-921-22	22.0	91	81	40	50	74	318	81	10	68	18.6
8-921-30	30.0	91	83	45	50	92	347	83	10	76	31.2

★ Minimum Ultimate Load is 4 times the Working Load Limit.
Maximum Proof Load is 2 times the Working Load Limit.



ROV: Remotely Operated Vehicle

- Forged alloy steel, quenched and tempered.
- Designed specifically for ROV application.
- Individually stamped with the Working Load Limit.
- Shackle Bows are painted yellow to ensure ease of sight in water.

ROV Shank Hook (ROV: Remotely Operated Vehicle)

Item No.	Working Load Limit	Dimensions (inch)											N.W.
	tonnes*	A	C	E	G	H	L	N	P	Q	R	T	lbs
8-931-05	5.4	2.17	1.89	0.79	4.80	1.50	16.03	1.10	1.38	1.26	0.32	1.22	13.2
8-931-08	8.0	2.17	2.44	0.79	6.30	1.89	16.97	1.10	1.69	1.26	0.32	1.38	16.7
8-931-11	11.5	2.56	3.03	1.18	7.72	2.21	19.18	1.58	2.40	1.97	0.32	1.85	30.6
8-931-16	16.0	2.56	3.27	1.18	8.70	2.52	19.41	1.58	2.84	1.97	0.32	2.21	35.0
8-931-22	22.0	3.35	4.29	1.97	10.91	2.99	22.25	2.05	3.47	2.56	0.39	2.68	68.2
8-931-32	31.5	3.35	5.00	1.97	13.90	3.58	23.47	2.05	3.50	2.56	0.39	2.99	98.1

★ Minimum Ultimate Load is 4 times the Working Load Limit.
Maximum Proof Load is 2 times the Working Load Limit.

Item No.	Working Load Limit	Dimensions (mm)											N.W.
	tonnes*	A	C	E	G	H	L	N	P	Q	R	T	kg
8-931-05	5.4	55	48	20	122	38	407	28	35	32	8	31	6.0
8-931-08	8.0	55	62	20	160	48	431	28	43	32	8	35	7.6
8-931-11	11.5	65	77	30	196	56	487	40	61	50	8	47	13.9
8-931-16	16.0	65	83	30	221	64	493	40	72	50	8	56	15.9
8-931-22	22.0	85	109	50	277	76	565	52	88	65	10	68	31.0
8-931-32	31.5	85	127	50	353	91	596	52	89	65	10	76	44.6

★ Minimum Ultimate Load is 4 times the Working Load Limit.
Maximum Proof Load is 2 times the Working Load Limit.