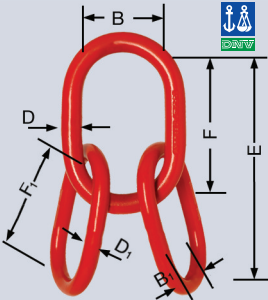
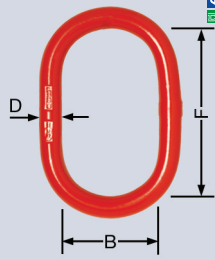


DNV 2.7-1 Type Approved Fittings for Offshore Container Lifting

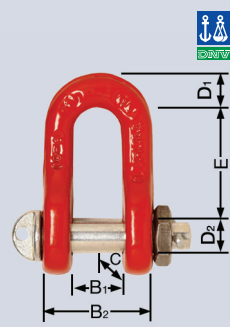
Offshore Quad Assemblies for Wire Rope Sling

Part-No.	Working Load Limit [t] $\beta = 0^{\circ}\text{-}45^{\circ}$ SF= 1:4	Dimensions [in.]								Weight app. [lbs.]	TWN 0797 S-7304
		D	D ₁	E	F	B	F ₁	B ₁			
F7097268	7.90	1.02	.87	13.39	7.09	3.94	6.30	3.54	11.68		
F7097238	11.30	1.26	1.02	16.14	9.06	4.92	7.09	3.94	19.84		
F7097368	16.00	1.42	1.26	18.90	9.84	5.51	9.06	4.92	33.07		
F0797458	22.60	1.77	1.42	22.44	12.60	6.89	9.84	5.51	53.79		
F0797508	26.80	1.97	1.77	25.98	13.39	7.48	12.60	6.89	88.19		
F0797568	40.00	2.20	1.97	28.35	14.96	8.27	13.39	7.48	121.25		
F0797638	50.00	2.48	2.20	31.89	16.93	9.48	14.96	8.27	174.17		

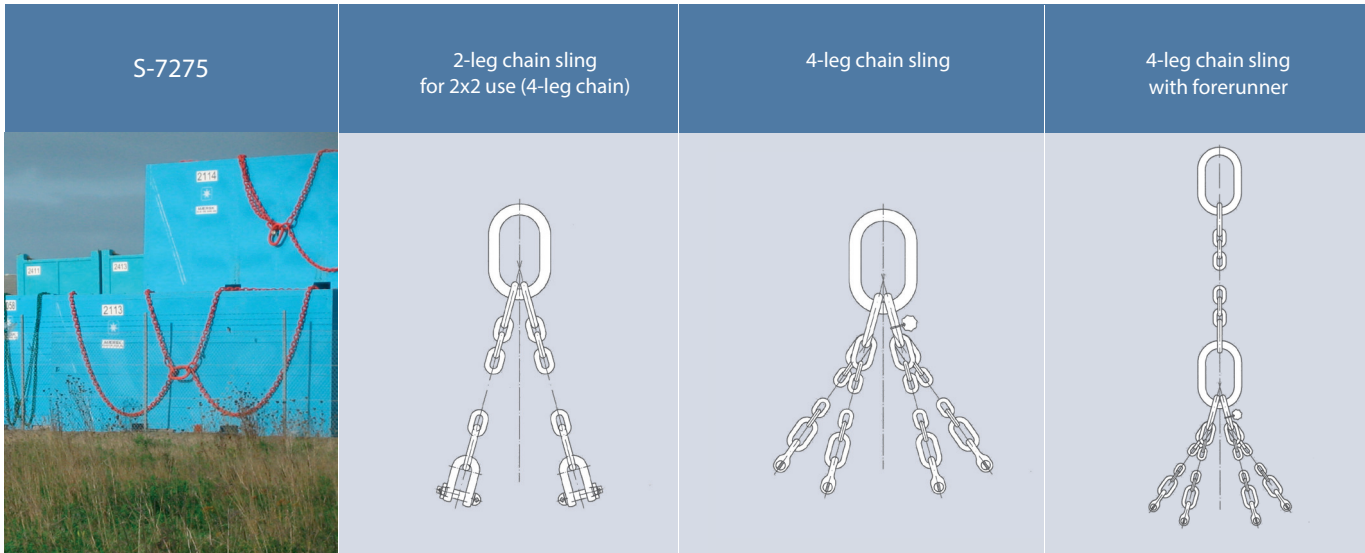
Offshore Master Links A-Type

Part-No.	Working Load Limit [t]	Dimensions [in.]								Weight app. [lbs.]	New TWN 0803 S-7303  Offshore Oblong Master Link Type A
		D	F	B							
F0803208	4.75	.79	5.51	3.15						2.43	
F0803228	5.60	.87	6.39	3.54						3.31	
F0803628	8.00	1.02	7.09	3.94						5.07	
F0803238	12.50	1.24	9.06	4.92						9.70	
F0803368	16.00	1.42	9.84	5.57						13.67	
F0803408	19.00	1.57	11.42	6.30						19.40	
F0803548	25.00	1.77	12.40	6.89						24.46	
F0803058	31.50	1.97	13.39	7.48						35.27	
F0803658	40.00	2.20	14.96	8.27						50.71	
F0803368	50.00	2.48	16.93	9.45						72.75	
F0803078	63.00	2.74	18.50	10.24						97.00	
F0803088	80.00	3.15	20.47	11.42						141.10	

Offshore Shackles

Part-No.	Nominal Size [in.]	Nominal Size [DIN 82101]	Working Load Limit [t]	Dimensions [in.]						Weight app. [lbs.]	TWN 0871 S-7302  Bolt Shackle C
				D ₁	D ₂	E	C	B ₁	B ₂		
F30310NV	3/8	1	3.15	.59	.63	1.93	1.26	.83	1.85	0.77	
F30320NV	1/2	1.6	5.30	.75	.79	2.40	1.58	1.06	2.40	1.63	
F30330NV	5/8	2.5	8.00	.91	.95	2.88	1.89	1.30	2.96	2.87	
F30340NV	3/4	4	12.50	1.14	1.18	3.59	2.36	1.65	3.78	5.73	
F30350NV	7/8	5	15.00	1.30	1.42	4.37	2.84	1.85	4.22	8.82	
F30360NV	1	6	21.20	1.46	1.54	4.73	3.07	2.09	4.71	12.56	
F30370NV	1 1/8	8	25.00	1.62	1.77	5.52	3.55	2.36	5.35	22.04	
F30380NV	1 1/4	10	31.50	1.71	1.89	5.79	3.78	2.60	5.91	23.14	
F30390NV	1.42	12	40.00	1.97	2.05	6.23	4.10	2.88	6.58	30.64	
F30400NV	1.58	16	50.00	2.17	2.36	7.29	4.73	3.19	7.29	45.18	
F30410NV	1.77	20	63.00	2.40	2.68	8.31	5.36	3.55	8.12	58.63	

DNV 2.7-1 Welded type lifting sets for Offshore Containers



Welded type lifting sets for Offshore Containers with a max. rating of 25,000 kg available upon request.

DET NORSKE VERITAS
TYPE APPROVAL CERTIFICATE

CERTIFICATE NO. S-7304

This is to certify that the
Lifting set for Offshore containers and POU
with type designation(s)
Thiele lifting chain for Offshore Containers

Manufactured by
Thiele GmbH & Co. KG
Iserlohn / Kathol, Germany

Is found to comply with
DNV 2.7-1 Offshore Containers
EN 12079 Offshore containers-Design, construction, testing, inspection and marking
EN 818-2 Short link chain for lifting purposes - Safety - Part 2: Medium tolerance chain for chain for chain
ISO/MSD Circular 860

Application
Grade 8 Short Link Chain
for

DET NORSKE VERITAS
TYPE APPROVAL CERTIFICATE

CERTIFICATE NO. S-7275

This is to certify that the
Lifting set for Offshore containers and POU
with type designation(s)
Chain Sling Lifting Set Assemblies for Lifting of Offshore Containers

Manufactured by
Thiele GmbH & Co. KG
Iserlohn / Kathol, Germany

Is found to comply with
DNV 2.7-1 Offshore Containers
EN 12079 Offshore containers-Design, construction, testing, inspection and marking
EN 818-4 Short link chain for lifting purposes - Safety - Part 4: Chain slings - Grade 8
ISO/MSD Circular 860

Application
1-, 2-, 3- & 4- Part Lifting Sets, with forerunner when fitted,
for
Lifting of Offshore Containers
with a maximum Rating of 25.000 kg

Havik, 2012-11-13
for Det Norske Veritas AS

Inger-Helene Hals
Head of Section

DNV local office:
Essen

Nina Thorvaldsen
Surveyor

DET NORSKE VERITAS
TYPE APPROVAL CERTIFICATE

CERTIFICATE NO. S-7303

This is to certify that the
Lifting set for Offshore containers and POU
with type designation(s)
Master Links, Intermediate Master Links, Joining Links & Terminal Links, Types A & B

Manufactured by
Thiele GmbH & Co. KG
Iserlohn / Kathol, Germany

Is found to comply with
DNV 2.7-1 Offshore Containers
EN 12079 Offshore containers-Design, construction, testing, inspection and marking
EN 1677-4 Components for slings - Safety - Part 4: Links, Grade 8
ISO/MSD Circular 860

Application
Grade 8 Links
for
Lifting Sets for Offshore Containers

Havik, 2012-11-14
for Det Norske Veritas AS

Inger-Helene Hals
Head of Section

DNV local office:
Essen

Nina Thorvaldsen
Surveyor

DET NORSKE VERITAS
TYPE APPROVAL CERTIFICATE

CERTIFICATE NO. S-7302

This is to certify that the
Lifting set for Offshore containers and POU
with type designation(s)
Offshore Shackles

Manufactured by
Thiele GmbH & Co. KG
Iserlohn / Kathol, Germany

Is found to comply with
DNV 2.7-1 Offshore Containers
EN 12079 Offshore containers-Design, construction, testing, inspection and marking
EN 1677-1 Components for slings - Safety - Part 1: Forged steel components, Grade 8
ISO/MSD Circular 860

Application
Grade 8 Shackles
for
Lifting Sets for Offshore Containers

2012-11-14
for Det Norske Veritas AS

Inger-Helene Hals
Head of Section

DNV local office:
Essen

Nina Thorvaldsen
Surveyor