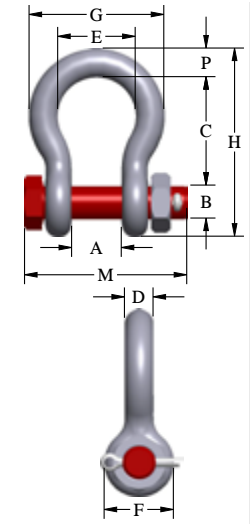
Crosby

G-2140



- Quenched & Tempered.
- Alloy bows, alloy bolts.
- Forged alloy steel 2 through 300 metric tons. Cast alloy steel 400 metric tons.
- Meets performance requirements of Grade 8 shackles.
- Working Load Limit is permanently shown on every shackle.
- 30, 40, 55, and 85 metric ton shackle bows are available galvanized (G) or self colored (S) with bolts that are galvanized and painted red.
- Size 3/8 inch is mechanically galvanized.
- 120, 150, 175 metric ton shackle bows are hot-dip galvanized; bolts are Dimetcoted and painted red.
- 200, 250, 300, 400 metric ton shackle bows are Dimetcoted; bolts are Dimetcoted and painted red.
- Approved for use at -40° F (-40° C) to 400° F (204° C).
- Shackles are Quenched & Tempered and can meet DNV impact requirements of 42 Joules (31 ft-lb) at -20° C (-4° F).
- Shackles 200 metric tons and larger are provided as follows:
  - Serialized bolt and bow
  - Material certification (chemical)
  - Magnetic particle inspected.
  - Certification must be requested at time of order.
- 30t and larger meet or exceed all requirements of ASME B30.26 including identification, ductility, design factor, proof load and temperature requirements. 2140 shackles meet other critical performance requirements including impact properties and material traceability, not addressed by ASME B30.26.
- Type Approval certification in accordance with ABS 2016 Steel Vessel Rules and 2016 ABS Guide for Certification of Lifting Appliances. Certificates are available when requested at time of order and may include additional charges.
- G-2140 meets the performance requirements of Federal Specification RR-C-271H, Type IVA, Grade B, Class 3, except for those provisions required of the contractor. For additional information, see Warnings & Applications.
- Look for the Red Pin®... the mark of genuine Crosby quality.

G-2140 Alloy Bolt Type Anchor Shackles

Nominal Shackle Size (in)	Working Load Limit (t)	Stock No.	Weight Each (lb)	Dimensions (in)														Replacement Bolt Stock No. *
				A	Tol. A ±	B	C	Tol. C ±	D	E	F	G	H	L	M	N	P	
3/8	2	1021015	.33	.66	.06	.44	1.45	.13	.38	1.03	.92	1.79	2.50	-	2.17	-	.38	-
7/16	2 2/3	1021020	.49	.75	.06	.50	1.69	.13	.44	1.16	1.06	2.04	2.91	-	2.51	-	.44	-
1/2	3 1/2	1021029	.79	.81	.06	.64	1.88	.13	.50	1.31	1.18	2.31	3.28	-	2.80	-	.50	-
5/8	5	1021038	1.68	1.06	.06	.77	2.38	.13	.62	1.69	1.50	2.93	4.19	-	3.56	-	.69	-
3/4	7	1021047	2.72	1.25	.06	.90	2.81	.25	.75	2.00	1.81	3.50	4.97	-	4.15	-	.81	-
7/8	9 1/2	1021056	3.95	1.44	.06	1.02	3.31	.25	.88	2.28	2.10	4.04	5.83	-	4.82	-	.97	-
1	12 1/2	1021065	5.66	1.69	.06	1.15	3.76	.25	1.00	2.69	2.38	4.69	6.56	-	5.39	-	1.06	-
1-1/8	15	1021074	8.27	1.81	.06	1.25	4.27	.25	1.16	2.91	2.68	5.15	7.47	-	5.90	-	1.25	1084382
1-1/4	18	1021083	11.7	2.03	.06	1.41	4.69	.25	1.29	3.26	3.00	5.76	8.26	-	6.69	-	1.38	1084391
1-3/8	21	1021092	15.8	2.25	.13	1.53	5.22	.25	1.42	3.62	3.31	6.38	9.16	-	7.21	-	1.50	1084400
1-1/2	30	1021110	19.1	2.38	.13	1.66	5.76	.25	1.53	3.88	3.62	6.94	10.00	-	7.73	-	1.62	1084409
1-3/4	40	1021138	35.0	2.88	.13	2.00	7.11	.25	1.84	5.00	4.19	8.84	12.45	-	9.63	-	2.25	1084418
2	55	1021156	49.9	3.25	.13	2.31	7.75	.25	2.08	5.75	4.81	10.15	13.68	-	10.77	-	2.40	1084427
2-1/2	85	1021174	103	4.12	.25	2.81	10.50	.25	2.71	7.24	5.81	12.75	17.90	-	13.53	-	3.12	1084436
3	120	1021192	162	5.00	.25	3.30	13.00	.25	3.12	7.88	6.50	14.63	21.50	-	15.13	-	3.63	1084445
3-1/2	† 150	1021218	268	5.25	.25	3.76	14.62	.25	3.63	9.02	8.00	17.00	24.88	4.00	17.00	1.80	4.38	1084454
4	† 175	1021236	318	5.50	.25	4.26	14.50	.25	4.00	10.00	9.00	18.00	25.68	4.00	21.20	1.80	4.56	1084463
4-3/4	† 200	1021234	461	7.25	.25	4.76	15.18	.25	4.75	11.00	10.50	20.30	28.03	4.00	24.04	1.80	5.00	1087552
5	† 250	1021243	608	8.50	.25	5.01	18.50	.25	5.00	13.00	12.00	23.63	32.63	4.00	24.87	1.80	5.63	1087561

4.5:1 Design Factor for sizes 2 through 21 metric tons, 5.4:1 Design Factor for sizes 30 through 175 metric tons. 4:1 Design Factor for 200 through 400 metric tons. Maximum Proof Load is 2 times the Working Load Limit. *Cast alloy steel.†Furnished with round head bolts with a handle. For Working Load Limit reduction due to side loading applications, see Warnings & Applications.

APPLICATION AND WARNING INFORMATION
SECTION 17