

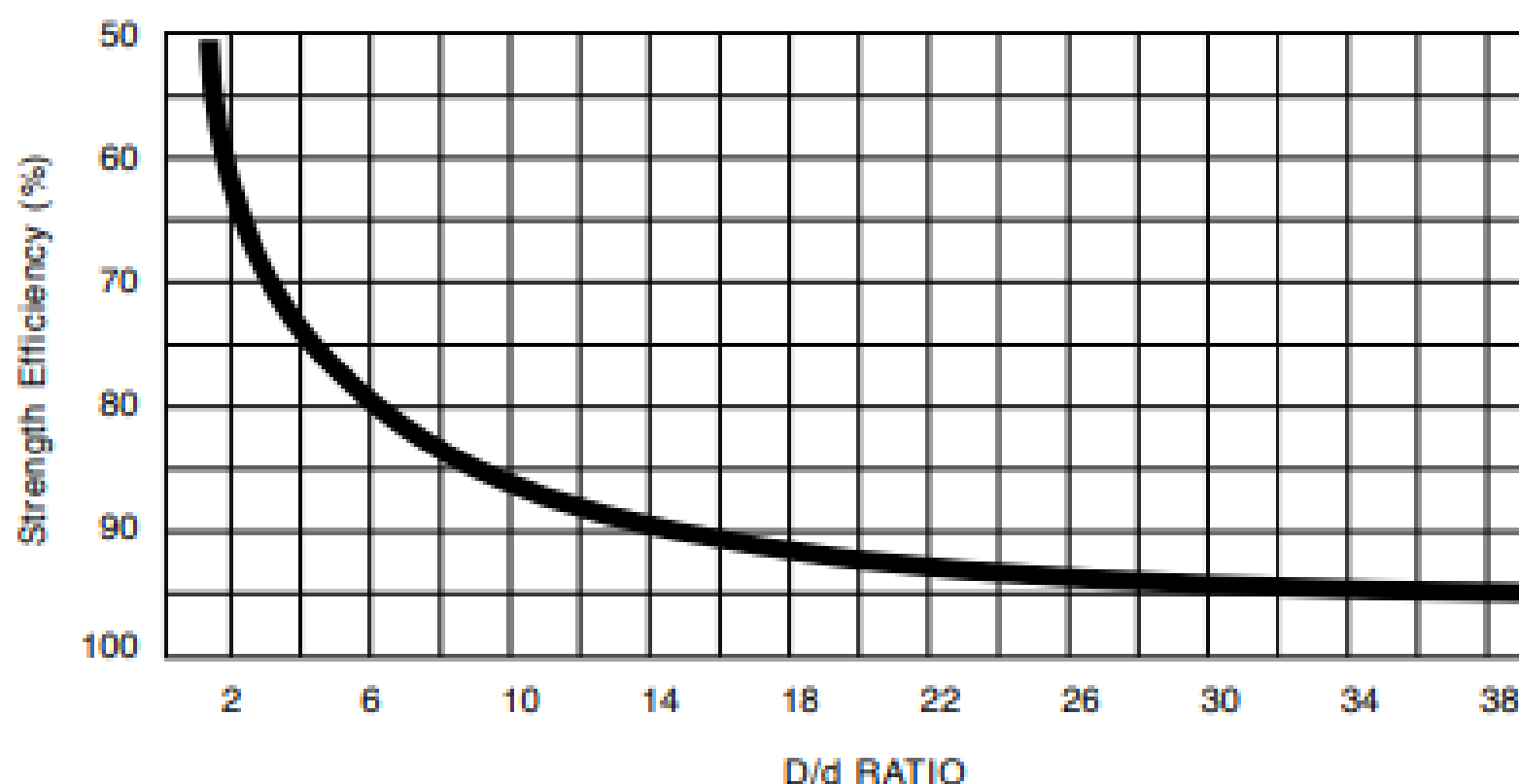
High-Capacity | Headroom Grom



To obtain the full rated capacity, the pin that the eye of the sling passes over must be a minimum of 1:1 D/d Ratio where D is the pin diameter, and d is the sling body diameter.

Hi-Cap LHR slings are ideal for applications in chemical plants, refineries, interstate highway construction, offshore derrick barge cranes, or whenever application requires high capacity with limited headroom.

Reduction in efficiency of wire rope when bent over pins of various sizes.



To obtain the full rated capacity, the pin that the eye of the sling passes over must be a minimum of 1:1 D/d ratio, where "D" is the pin diameter and "d" is the sling body diameter. This curve is computed for static loads only and is based on a weighted average of tests on 6-strand wire rope over pins and thimbles, on fiber core and IWRC, regular and lang constructions.

Note: The breaking strength of a grommet-type wire rope is highly dependent on the ratio of the pin diameter divided by the wire rope diameter. From this ratio, the strength efficiency can be calculated and applied to the base values on the previous page.

The values on the following four pages have been calculated based on using Crosby G-2160 Wide Body Shackles. To calculate for pins, anchor shackle bales, and trunnions:

1. Calculate your D/D ratio.
2. From your D/d ratio, determine your strength efficiency factor.
3. Apply your strength efficiency factor to the base working load limits at the top of page 1.



Phase 1 Grommet

VERSITEC MARINE E INDUSTRIAL S.A. DE C.V.



Part #: HI-CAP1

Phase 1 Grommet (Single-Part)
 (Working Load Limits Are in Tons of 2000 Lbs.)

Working Load Limit @ 5:1 Design Factor



Component Rope Dia. (inches)	Diameter of Pin, Shackle Ball, Trunnion, Etc. (Inches)											
	3.00	3.50	4.00	4.50	6.00	8.00	10.00	12.00	16.00	20.00	24.00	30.00
1.50	27	28	29	29	31	32	34	35	36	37	37	38
1.75	34	36	37	38	40	42	44	45	47	48	49	50
2.00	43	46	47	49	52	55	57	58	61	63	64	66
2.25	49	52	55	56	61	64	67	68	72	74	76	77
2.50	58	62	65	67	73	77	81	83	86	90	92	94
2.75	67	72	76	79	85	91	95	98	103	106	109	112
3.00	77	82	87	91	99	106	111	115	120	124	128	132
3.50		102	108	114	126	136	143	148	156	161	165	171
4.00			130	137	153	168	177	184	195	201	206	214
4.50				160	181	200	212	222	235	244	250	259
6.00					250	283	306	323	346	363	375	388

Holloway Houston Inc. uses a 3, 6 and/or 12 inch diameter pin for testing purposes.

US Patent No: 6,381,939

BASKET RATINGS ALSO AVAILABLE UPON REQUEST. CONTACT US FOR MINIMUM LENGTHS.

All slings are proof-tested to 2 times working load limit. Design factor is 5:1.



Phase 2 Grommet

Part #: HI-CAP2

**Phase 2 Grommet (Two-Part)
(Working Load Limits Are in Tons of 2000 Lbs.)**

Working Load Limit @ 5:1 Design Factor



Component Rope Dia. (inches)	Diameter of Pin, Shackle Bail, Trunnion, Etc. (inches)											
	3.00	3.50	4.00	4.50	6.00	8.00	10.00	12.00	16.00	20.00	24.00	30.00
1.50	54	56	58	59	63	65	68	70	72	74	75	76
1.75	69	72	74	77	81	85	88	91	95	97	99	101
2.00	87	92	95	98	105	111	114	117	123	127	129	132
2.25	99	105	110	113	122	129	134	137	144	148	152	155
2.50	117	124	130	135	146	155	162	166	173	180	184	189
2.75	135	144	152	158	171	183	191	197	206	213	219	225
3.00	154	165	174	182	199	213	223	231	241	249	256	264
3.50		204	217	228	252	273	287	297	312	322	331	343
4.00			260	274	307	336	355	369	390	403	413	429
4.50				320	362	400	425	444	470	488	501	518
6.00					500	566	612	646	693	726	750	776

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