

Patent Pending

-40°C

Anchor Point

Metric Thread (8-231)

Item No.	Working Load Limit		Thread	Dimensions (mm)										Torque in Nm	N.W. kg	Repair Kits	
	tonnes*			A	B	C	D	E	F	G	H	R	S				SW
	5:1	4:1															
8-231-005	0.4	0.5	M8	33	42	28	11	12	80	58	23	17	6	13	30	0.3	8-P231-005
8-231-007	0.56	0.7	M10	33	41	29	11	15	80	58	23	17	6	17	60	0.3	8-P231-007
8-231-010	0.8	1.0	M12	33	40	31	11	18	80	58	23	17	8	19	100	0.3	8-P231-010
8-231-015	1.2	1.5	M14	51	56	45	17	21	117	90	36	27	10	22	120	0.9	8-P231-015
8-231-020	1.6	2.0	M16	51	54	46	17	24	117	90	36	27	10	24	150	0.9	8-P231-020
8-231-025	2.0	2.5	M18	65	78	57	20	27	153	108	44	34	12	30	200	1.9	8-P231-025
8-231-030	2.4	3.0	M20	50	52	49	17	30	117	90	36	27	12	30	250	1.0	8-P231-030
8-231-050	4.0	5.0	M24	72	81	59	22	36	162	125	44	37	14	36	400	2.6	8-P231-050
8-231-056	4.5	5.6	M27	87	96	79	30	38	205	148	62	46	17	41	400	4.9	8-P231-056
8-231-078	6.25	7.8	M30	87	94	81	30	48	205	148	62	46	17	46	500	5.0	8-P231-078
8-231-125	10.0	12.5	M36	110	112	98	38	54	246	188	75	57	22	55	1000	9.6	8-P231-125
8-231-156	12.5	15.6	M42	110	101	109	38	63	246	188	83	57	24	65	1500	10.9	8-P231-156
8-231-200	16.0	20.0	M48	110	97	113	38	72	246	188	83	57	27	75	2000	11.6	8-P231-200
8-231-220	17.6	22.0	M56	123	113	123	38	84	273	202	91	64	—	85	2100	15.0	8-P231-220
8-231-225	18.0	22.5	M64	123	112	124	38	96	273	202	91	64	—	95	2200	16.3	8-P231-225

* Proof Load is 2.5 times the Working Load Limit on the 4:1 design factor.

** Bolt in GEOMET® finished on request

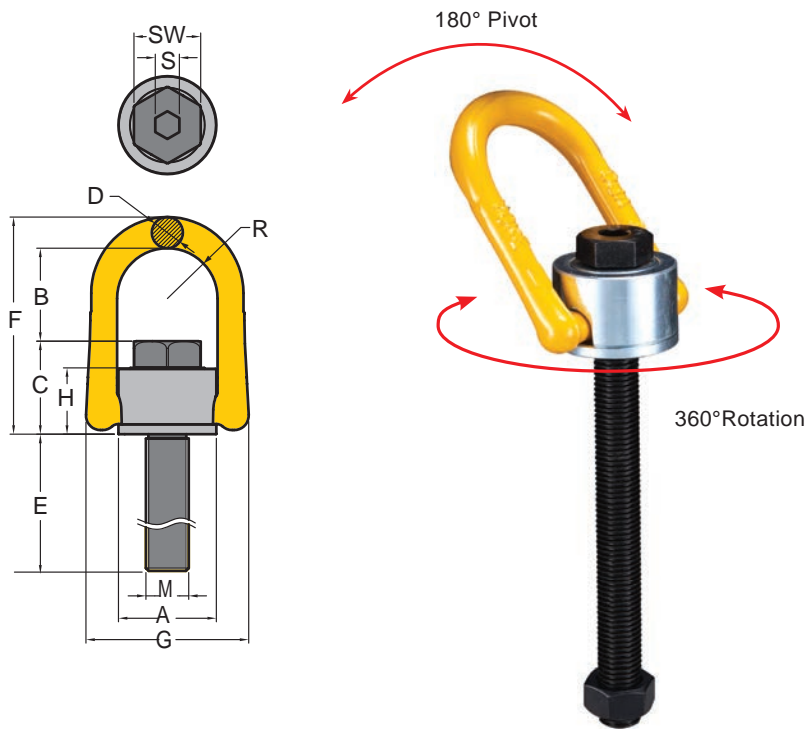
UNC Thread (8-232)

Item No.	Working Load Limit		Thread	Dimensions (inch)										Torque in ft. lbs	N.W. lbs	Repair Kits	
	lbs*			A	B	C	D	E	F	G	H	R	S				SW
	TPI																
8-232-010	1700	1/2 - 13 UNC	1.97	2.23	1.73	0.65	0.75	4.61	3.54	1.42	1.06	5/16	3/4	73	1.8	8-P232-010	
8-232-020	3500	5/8 - 11 UNC	1.97	2.13	1.81	0.65	0.94	4.61	3.54	1.42	1.06	3/8	15/16	110	2.0	8-P232-020	
8-232-030	5300	3/4 - 10 UNC	1.97	2.07	1.89	0.65	1.10	4.61	3.54	1.42	1.06	1/2	1 1/8	185	2.2	8-P232-030	
8-232-038	6700	7/8 - 9 UNC	2.56	2.99	2.28	0.79	1.10	6.02	4.25	1.73	1.34	5/8	1 5/16	221	4.3	8-P232-038	
8-232-050	8800	1 - 8 UNC	2.81	3.17	2.34	0.87	1.61	6.38	4.92	1.73	1.46	7/8	1 1/2	295	5.7	8-P232-050	
8-232-078	13700	1 1/4 - 7 UNC	3.43	3.66	3.23	1.18	1.61	8.07	5.83	2.44	1.79	7/8	1 7/8	368	11.0	8-P232-078	
8-232-125	22000	1 1/2 - 6 UNC	4.29	4.38	3.87	1.50	2.39	9.69	7.40	2.93	2.22	1	2 1/4	585	21.2	8-P232-125	
8-232-200	35200	2 - 4.5 UNC	4.29	3.80	4.46	1.50	3.00	9.69	7.40	3.25	2.22	1 1/4	3	1476	25.6	8-P232-200	

★ Design Factor 5:1

** Bolt in GEOMET® finished on request





Patent Pending

-40°C



Repair Kits

Anchor Point Long Bolt

Metric Thread

Item No.	Working Load Limit		Thread	Dimensions (mm)											Torque in Nm	N.W. kg	Repair Kits
	tonnes*			A	B	C	D	E	F	G	H	R	S	SW			
	5:1	4:1															
8-231-005/105L	0.4	0.5	M8	32	42	28	11	83	80	58	23	17	6	13	30	0.3	8-P231-005/105L
8-231-007/125L	0.56	0.7	M10	32	41	29	11	103	80	58	23	17	6	17	60	0.4	8-P231-007/125L
8-231-010/150L	0.80	1	M12	32	40	31	11	128	80	58	23	17	8	19	100	0.4	8-P231-010/150L
8-231-020/185L	1.6	2	M16	50	54	46	17	149	117	90	36	27	10	24	150	1.1	8-P231-020/185L
8-231-030/230L	2.4	3	M20	50	52	49	17	194	117	90	36	27	12	30	250	1.4	8-P231-030/230L
8-231-050/265L	4	5	M24	72	81	59	22	221	162	125	44	37	14	36	400	3.2	8-P231-050/265L
8-231-078/340L	6.25	7.8	M30	87	94	81	30	278	205	148	62	46	17	46	500	6.3	8-P231-078/340L
8-231-125/300L	10	12.5	M36	109	112	98	38	225	246	188	75	57	22	55	1000	10.9	8-P231-125/300L
8-231-156/350L	12.5	15.6	M42	109	101	109	38	268	246	188	83	57	24	65	1500	13.9	8-P231-156/350L
8-231-200/385L	16	20	M48	109	97	113	38	303	246	188	83	57	27	75	2000	14.7	8-P231-200/385L

* Proof Load is 2.5 times the Working Load Limit on the 4:1 design factor.

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