

WARNING

- Loads may slip or fall if proper Anchor Point assembly and lifting procedures are not used.
- A falling load may cause serious injury or death.
- Install Anchor Point bolt to torque requirements listed in tables 2 for the 8-231,8-232 respectively.
- Read, understand and follow all instructions and chart information.
- Do not use with damaged slings, chain, or webbing. For inspection criteria see ASME B30.9 .
- Use only YOKE parts as replacements.

Anchor Point Application Assembly Safety

- After determining the loads on each Anchor Point, select the proper size Anchor Point using the Working Load Limit ratings in Table 1.
- Drill and tap the work piece to the correct size to a minimum depth of one-half the threaded shank diameter plus the threaded shank length. See rated load limit and bolt torque requirements imprinted on top of the swivel trunnion (see Table 2).
- Install Anchor Point to recommended torque with a torque wrench making sure the bushing flange meets the load (work piece) surface.
- Never use spacers between bushing flange and mounting surface.
- Always select proper load rated lifting device for use with Anchor Point.
- Attach lifting device ensuring free fit to Anchor Point bail (lifting ring) (Fig. 1).
- Apply partial load and check proper rotation and alignment. There should be no interference between load (work piece) and Anchor Point bail (Fig. 2).

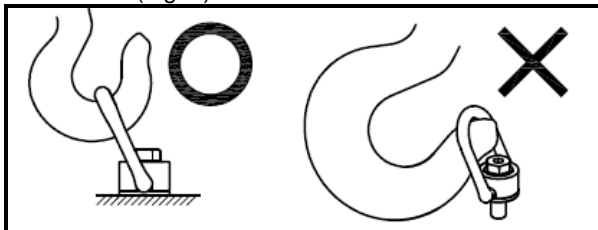


Figure 1

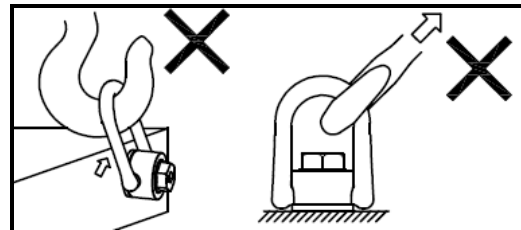


Figure 2

Anchor Point Inspection / Maintenance

- Always inspect Anchor Point before use.
- Regularly inspect Anchor Point parts (Fig.3).

External Inspection Points

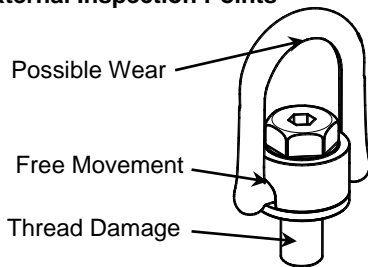


Figure 3

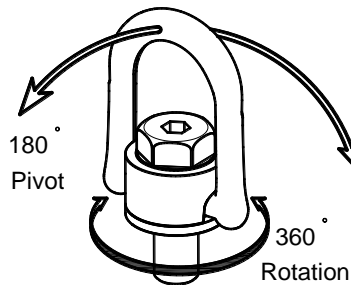


Figure 4

- Never use Anchor Point that shows signs of corrosion, wear or damage.
- Never use Anchor Point if bail is bent or elongated.
- Always be sure threads on shank and receiving hole are clean, not damaged, and fit properly.
- Always check with torque wrench before using an already installed Anchor Point.
- Always make sure there are no spacers (washers) used between bushing flange and the mounting surface. Remove any spacers (washers) before use.
- Always ensure free movement of bail. The bail should pivot 180 degrees and swivel 360 degrees (Fig. 4)
- Always be sure total work piece surface is in contact with Anchor Point bushing mating surface. Drilled and tapped hole must be 90 degrees to load (work piece) surface.

Operating Safety

- Never exceed the capacity of the Anchor Point, see Table 1.
- When using lifting slings of two or more legs, make sure the forces in the legs are calculated using the angle from the horizontal sling angle to the leg and select the proper size Anchor Point to allow for the angular forces, see Table 1.
- Effects of temperature:
- Due to the DIN/EN bolts that are used with the Anchor Point, the working load limit must be reduced accordingly:

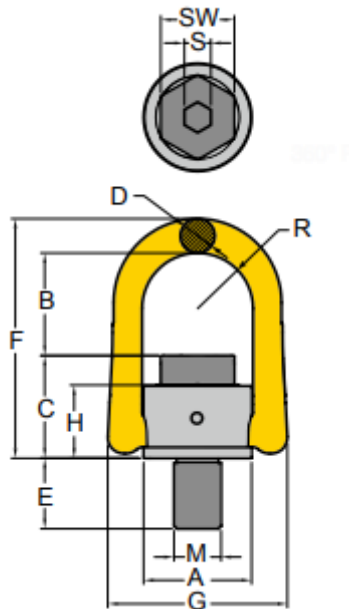
-40° to 200°C	Minus 0%	-40°F to 392°F
200° to 300°C	Minus 10%	392°F to 572°F
300° to 400°C	Minus 25%	572°F to 752°F
★ Temperature above 400°C(752°F) are not permitted.		

Tables 1

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)									
8-231-005	M 8	0.8	1.6	0.5	1	0.7	0.5	0.5	1.1	0.8	0.5
8-231-007	M10	1.2	2.4	0.7	1.4	1	0.7	0.7	1.5	1.1	0.7
8-231-010	M12	1.5	3	1	2	1.4	1	1	2.1	1.5	1
8-231-015	M14	2.4	4.8	1.5	3	2.1	1.5	1.5	3.2	2.3	1.5
8-231-020	M16	3.2	6.4	2	4	2.8	2	2	4.2	3	2
8-231-025	M18	5	10	2.5	5	3.5	2.5	2.5	5.3	3.8	2.5
8-231-030	M20	4.5	9	3	6	4.2	3	3	6.3	4.5	3
8-231-050	M24	9	18	5	10	7	5	5	10.5	7.5	5
8-231-056	M27	9.5	19	5.6	11.2	7.8	5.6	5.6	11.8	8.4	5.6
8-231-078	M30	12	24	7.8	15.6	10.9	7.8	7.8	16.4	11.7	7.8
8-231-125	M36	14	28	12.5	25	17.5	12.5	12.5	26.3	18.8	12.5
8-231-156	M42	16	32	15.6	31.2	21.8	15.6	15.6	32.8	23.4	15.6
8-231-200	M48	20	40	20	40	28	20	20	42	30	20
8-231-220	M56	22	44	22	44	30.8	22	22	46.2	33	22
8-231-225	M64	22.5	45	22.5	40	28	20	20	42	30	20

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)									
8-232-010	1/2	1.2	2.4	0.8	1.6	1.12	0.8	0.8	1.68	1.2	0.8
8-232-020	5/8	2.6	5.2	1.6	3.2	2.24	1.6	1.6	3.36	2.4	1.6
8-232-030	3/4	3.6	7.2	2.4	4.8	3.36	2.4	2.4	5.04	3.6	2.4
8-232-038	7/8	4.5	9	3	6	4.2	3	3	6.3	4.5	3
8-232-050	1	7.2	14.4	4	8	5.6	4	4	8.4	6	4
8-232-078	1 1/4	9.6	19.2	6.25	12.5	8.75	6.25	6.25	13.13	9.38	6.25
8-232-125	1 1/2	11	22	10	20	14	10	10	21	15	10
8-232-200	2	16	32	16	32	22.4	16	16	33.6	24	16

Tables 2



Item No.	Working Load Limit	Thread version			Dimensions										Torque in	N.W.
		M	E	Pitch	A	B	C	D	F	G	H	R	S	SW		
	tonnes	mm	mm	DIN13	mm										Nm	kg
8-231-005	0.5	M 8	12	1.25	33	42	28	11	80	58	23	17	6	13	30	0.3
8-231-007	0.7	M 10	15	1.5	33	41	29	11	80	58	23	17	6	17	60	0.3
8-231-010	1.0	M 12	20	1.75	33	40	31	11	80	58	23	17	8	19	100	0.3
8-231-015	1.5	M 14	21	2	50	56	45	17	117	90	36	27	10	22	120	0.9
8-231-020	2.0	M 16	24	2	50	54	46	17	117	90	36	27	10	24	150	0.9
8-231-025	2.5	M 18	26	2.5	65	78	57	20	153	108	44	34	12	30	200	1.9
8-231-030	3.0	M 20	30	2.5	50	52	49	17	117	90	36	27	12	30	250	1.0
8-231-050	5.0	M 24	36	3	72	81	59	25	163	125	44	37	14	36	400	2.6
8-231-056	5.6	M 27	38	3	87	86	79	30	204	148	62	46	17	41	400	4.9
8-231-078	7.8	M 30	48	3.5	87	94	81	30	204	148	62	46	17	46	500	5.0
8-231-125	12.5	M 36	54	4	110	112	98	36	247	188	75	57	22	55	1000	9.6
8-231-156	15.6	M 42	63	4.5	110	101	108	36	247	188	83	57	24	65	1500	10.9
8-231-200	20.0	M 48	72	5	110	97	113	36	248	188	83	57	27	75	2000	11.6
8-231-220	22.0	M 56	84	5.5	123	116	121	36	274	202	91	64	27	85	2100	15.0
8-231-225	22.5	M 64	100	6	123	111	126	36	274	202	91	64	32	95	2200	16.3

* Design Factor 4:1

Item No.	Working Load Limit	Thread version			Dimensions										Torque in	N.W.
		M	E	TPI	A	B	C	D	F	G	H	R	S	SW		
	tonnes	inch	inch		inch										Nm	lbs
8-232-010	0.8	1/2	0.81	13 UNC	1.3	1.57	1.20	0.41	3.17	2.28	0.90	0.67	5/16	3/4	100	1.8
8-232-020	1.6	5/8	1.13	11 UNC	1.97	2.13	1.81	0.65	4.61	3.54	1.42	1.06	3/8	15/16	150	2.0
8-232-030	2.4	3/4	1.54	10 UNC	1.97	2.07	1.89	0.65	4.61	3.54	1.42	1.06	1/2	1 1/8	250	2.2
8-232-038	3.0	7/8	1.42	9 UNC	2.56	2.99	2.28	0.79	6.02	4.25	1.73	1.34	5/8	15/16	300	4.3
8-232-050	4.0	1	1.61	8 UNC	2.81	3.17	2.34	0.98	6.38	4.92	1.73	1.46	5/8	1 1/2	400	5.7
8-232-078	6.25	1 1/4	2.09	7 UNC	3.43	3.66	2.23	1.18	8.07	5.83	2.44	1.79	7/8	17/8	500	11.0
8-232-125	10.0	1 1/2	2.40	6 UNC	4.29	4.38	3.87	1.42	9.92	7.40	3.07	2.22	1	21/4	800	21.2
8-232-200	16.0	2	3.00	4.5 UNC	4.61	3.80	4.46	1.42	9.93	7.71	3.35	2.38	11/4	3	2000	25.6

* Design Factor 5:1