



LB	LIGHT BLUE
DBL	DARK BLUE
BL	BLUE
W	WHITE
O	ORANGE
Y	YELLOW
GY	GREY
BR	BROWN
BK	BLACK
RD	RED
PK	PINK
LGN	LIGHT GREEN
GN	GREEN
DGN	DARK GREEN
V	VIOLET
PU	PURPLE
T	TAN

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270103	62	23	270240	34	4	270426	56	5
270104	88	13	270245	47	10	270427	58	5
270105	88	14	270251	32	18	270429	56	8
270106	34	2	270251	34	23	270434	25	17
270114	27	29	270252	32	19	270435	56	2
270114	62	26	270252	34	5	270436	56	3
270116	10	6	270253	32	20	270437	56	4
270119	16	9	270254	34	6	270439	56	19

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270454	55	5	270665	55	3	270728	13	48
270498	12	4	270666	55	4	270729	13	49
270499	12	5	270667	55	19	270730	16	12
270500	12	6	270671	47	21	270730	17	11
270501	12	7	270683	5	63	270731	12	2
270503	12	9	270683	6	22	270740	2	6
270510	12	16	270687	5	40	270740	87	21
270513	12	19	270687	6	7	270741	2	5
270521	12	27	270688	62	12	270741	87	20
270522	12	28	270690	62	13	270746	34	20
270523	12	29	270691	5	91	270754	25	18
270527	12	33	270692	6	33	270768	11	2
270528	12	34	270693	6	26	270793	21	16
270530	13	36	270696	10	14	270812	23	19
270543	45	23	270698	5	64	270813	23	20
270547	27	10	270698	6	25	270824	42	1
270584	12	21	270699	5	37	270825	42	2
270585	14	14	270699	6	6	270836	11	1
270586	45	24	270701	5	88	270864	15	20
270588	16	11	270701	6	28	270870	32	9
270588	16	11	270703	6	29	270883	9	4
270588	17	10	270707	12	3	270884	9	5
270624	9	3	270708	12	11	270885	9	6
270626	6	27	270709	12	12	270886	9	7
270627	6	19	270710	12	13	270896	3	1
270628	6	8	270711	12	14	270897	3	2
270629	6	18	270712	12	15	270899	3	3
270630	6	20	270713	12	17	270900	2	3
270631	6	23	270714	12	18	270900	3	4
270632	6	24	270715	12	20	270901	3	5
270633	5	62	270716	13	35	270902	3	6
270633	6	21	270717	13	37	270924	20	14
270634	6	17	270718	13	38	270936	18	7
270635	6	34	270719	13	39	270937	18	5
270637	6	32	270720	13	40	270939	18	6
270650	42	3	270721	13	41	270940	18	4
270660	54	3	270724	13	44	270946	68	3
270661	54	4	270725	13	45	270948	68	5
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270954	72	8	271283	48	19	271995	61	22
270956	74	9	271301	16	22	271997	14	16
270957	74	10	271304	32	21	271999	47	18
270958	74	13	271328	45	29	272000	88	18
270960	75	4	271329	45	30	272019	14	17
270962	75	31	271332	45	32	272020	14	18
270963	79	32	271333	45	33	272023	32	24
270965	79	28	271334	45	34	272025	45	35
270970	77	33	271342	60	14	272026	45	36
270972	84	64	271342	61	18	272027	45	37
270973	84	82	271343	60	15	272057	45	38
270974	82	1	271343	61	19	272078	5	66
270979	2	2	271344	60	16	272078	17	30
270979	81	2	271344	61	20	272227	18	3
270980	66	28	271374	10	16	272259	23	41
270984	85	2	271431	27	23	272272	88	8
271021	57	14	271433	24	25	272274	23	8
271021	58	14	271434	24	23	272301	23	42
271080	10	15	271461	46	6	272357	88	27
271083	45	25	271464	32	10	272358	88	28
271084	45	26	271524	48	26	272374	34	1
271088	45	43	271546	27	22	272378	24	8
271090	24	11	271604	24	17	272379	24	9
271090	45	42	271611	15	44	272380	47	27
271094	88	17	271611	32	22	272424	15	47
271098	14	15	271636	48	24	272718	32	23
271109	16	1	271705	31	9	272767	25	37
271124	18	2	271708	45	31	272776	29	2
271135	12	24	271737	23	37	272777	29	4
271136	12	23	271752	14	44	272848	23	10
271136	60	23	271786	24	19	273015	25	19
271136	61	32	271882	60	17	273027	59	8
271160	45	27	271884	23	36	273054	14	36
271195	60	13	271885	60	18	273054	15	5
271195	61	17	271890	15	21	273090	10	12
271196	45	28	271901	15	22	273462	28	1
271213	30	2	271915	47	32	273505	21	17
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274135	27	27	651423	25	22	651693	15	30
274351	48	12	651448	5	14	651693	25	33
274367	48	25	651448	20	16	651693	27	26
274912	3	0	651448	44	18	651693	34	10
274912	46	1	651448	59	19	651694	10	20
275000	87	3	651448	61	24	651694	23	24
275105	27	14	651449	15	27	651694	25	25
275106	27	6	651449	23	22	651694	32	27
570021	15	24	651449	61	25	651694	34	11
602423	51	9	651456	10	28	651695	10	26
602423	52	9	651456	25	23	651695	14	31
613021	21	7	651456	34	9	651695	15	31
613021	59	17	651457	31	11	651695	21	10
613052	21	8	651458	11	4	651695	23	25
613052	44	17	651483	47	20	651695	24	26
613052	45	9	651501	10	18	651695	25	26
613052	54	7	651511	16	21	651695	30	3
613052	55	7	651521	34	22	651695	32	28
613052	56	7	651521	46	7	651696	15	32
613052	61	23	651522	29	6	651698	23	26
650448	14	19	651543	15	28	651698	41	34
650453	47	19	651564	10	19	651698	47	29
650488	24	21	651624	32	25	651698	87	15
650488	25	21	651640	17	24	651699	23	52
650569	59	22	651659	15	29	651703	66	22
650702	20	5	651662	14	29	651704	7	15
650965	5	13	651662	66	20	651704	28	9
651065	14	20	651670	27	11	651705	10	31
651066	14	45	651670	28	7	651705	14	32
651087	24	14	651679	34	15	651705	15	33
651239	59	18	651681	66	21	651705	16	13
651297	5	20	651683	6	4	651705	17	14
651343	9	9	651683	16	17	651705	24	27
651400	14	21	651689	17	27	651705	25	27
651406	23	21	651689	88	19	651705	27	24
651419	20	15	651690	24	24	651705	32	29
651419	21	9	651690	25	24	651705	34	12
651421	16	19	651692	28	8	651706	10	27
651421	17	23	651693	14	30	651706	14	33

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651706	23	27	651730	31	12	656012	15	39
651706	24	28	651733	24	29	656015	20	17
651706	25	28	651733	25	29	656015	44	19
651706	30	4	651736	15	38	656015	59	20
651706	32	30	651742	23	31	656015	61	27
651706	45	39	651747	35	10	656016	9	10
651706	48	20	651748	16	4	656018	29	3
651706	60	20	651748	17	36	656019	5	92
651706	61	26	651757	23	2	656019	15	26
651706	66	23	651758	25	30	656019	17	16
651706	87	11	651759	15	46	656022	61	28
651706	88	21	651763	16	23	656023	28	3
651707	10	21	651763	17	33	656039	15	40
651707	14	34	651765	16	25	656040	35	11
651707	15	35	651765	17	35	656047	6	2
651707	23	28	651770	23	23	656047	15	41
651707	27	12	651772	7	17	656047	32	31
651707	35	8	651774	23	33	656047	34	13
651707	87	12	651774	34	24	656047	66	26
651707	88	22	653007	17	25	656048	32	5
651708	5	93	653039	34	18	656049	14	39
651708	15	36	653053	34	14	656062	23	34
651708	16	3	654002	23	39	656063	14	43
651708	17	15	654004	5	4	656063	34	16
651708	23	29	654004	15	45	656088	24	36
651708	28	5	654004	17	28	656088	25	36
651709	66	24	654004	31	13	656101	7	36
651711	87	13	654004	66	25	656111	60	21
651713	88	29	654009	29	5	656111	61	29
651714	7	24	654012	16	2	656116	17	22
651714	28	6	654012	17	37	656117	59	21
651716	14	35	654045	34	19	656117	61	30
651717	35	9	655006	15	43	656118	9	11
651720	14	37	655006	23	53	656122	15	42
651720	15	37	656004	45	40	656123	11	3
651720	87	14	656006	46	8	656133	14	40
651722	27	7	656007	21	12	656133	47	33
651724	24	18	656008	14	38	656139	6	5

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656153	61	2	425-34646	71	27	425-34740	71	39
656158	10	22	425-34649	72	7	425-34741	68	7
656158	25	2	425-34653	73	2	425-34743	68	8
656159	7	48	425-34659	75	27	425-34744	81	22
656161	45	2	425-34660	75	28	425-34745	68	13
656162	44	20	425-34661	77	28	425-34745	71	53
656179	27	25	425-34678	84	6	425-34746	72	5
656188	44	2	425-34681	68	10	425-34746	72	9
660068	87	16	425-34683	77	34	425-34746	83	132
809441	29	1	425-34684	79	44	425-34747	69	13
809445	27	30	425-34693	75	11	425-34747	77	21
0004412533	5	94	425-34694	75	14	425-34747	85	31
160-32740	66	4	425-34698	75	23	425-34748	68	17
250-32577	66	18	425-34699	75	30	425-34750	68	12
310-32678	59	23	425-34700	79	1	425-34750	79	48
400-21568	66	19	425-34701	79	14	425-34750	79	50
400-30803	59	15	425-34704	77	31	425-34754	69	2
400-32252	59	16	425-34705	77	29	425-34756	69	3
420-18160	87	10	425-34707	77	37	425-34759	69	17
420-34912	1	11	425-34721	67	6	425-34760	68	16
420-34913	1	12	425-34721	67	7	425-34760	81	3
420-34914	1	13	425-34722	67	8	425-34761	69	19
420-35532	25	32	425-34723	67	4	425-34761	71	37
420-35578	26	4	425-34725	67	13	425-34761	79	23
420-35602	10	17	425-34726	67	14	425-34763	68	20
420-35602	24	20	425-34727	77	18	425-34764	69	6
420-35602	25	20	425-34729	77	19	425-34765	69	12
420-35602	27	20	425-34730	67	9	425-34765	71	36
420-35785	87	19	425-34731	67	24	425-34765	79	43
420-36023	43	5	425-34732	67	12	425-34766	71	38
420-36140	19	4	425-34733	68	14	425-34769	71	42
420-36141	19	3	425-34733	68	15	425-34775	71	51
420-36292	19	1	425-34733	69	11	425-34776	71	52
425-34638	67	27	425-34733	71	2	425-34779	71	20
425-34639	71	22	425-34733	77	20	425-34781	79	52
425-34641	71	30	425-34733	79	20	425-34781	84	69
425-34642	71	29	425-34733	83	131	425-34782	71	14
425-34643	71	23	425-34734	67	32	425-34783	71	35

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425-34793	71	13	425-36121	69	8
425-34796	71	32	425-36152	77	51
425-34799	73	1	425-36152	88	31
425-34800	72	6	425-36187	74	15
425-34800	72	10	425-36233	88	24
425-34805	74	14	425-36235	77	50
425-34806	74	3	425-36235	88	30
425-34808	74	1	425-36239	77	12
425-34810	75	5	425-36240	67	5
425-34817	75	9	425-36249	73	5
425-34818	75	10	425-36261	77	23
425-34823	79	15	425-36262	77	16
425-34825	79	17	425-36263	77	14
425-34827	79	19	L45666	10	24
425-34835	79	45	L500022	5	22
425-34838	77	22	L500022	6	3
425-34842	77	26	L500048	5	7
425-34843	77	30	L500049	5	8
425-34849	77	17	L500099	7	10
425-34908	82	46	L500225	25	35
425-34916	81	5	L500225	26	10
425-34916	81	9	L61709	20	6
425-34981	84	25	L62721	23	43
425-35164	68	21	L62722	23	38
425-35174	84	66	L69755	14	41
425-35263	84	68	L69756	14	42
425-35352	84	60	L69832	48	2
425-35425	79	21	L70244	26	1
425-35452	82	42	L70245	26	3
425-35925	84	135	L70246	26	5
425-35931	67	29	L70487	8	17
425-35934	72	4	L71076	7	4
425-35936	75	21	L72019	66	2
425-35937	75	22	L99405	55	6
425-35958	79	51	L99932	87	18
425-35962	84	88	L99933	87	17
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TORQUE SPECIFICATIONS

Note: Use these torque values when tightening hardware (excluding: locknuts and self-tapping, thread forming and sheet metal screws) unless specified otherwise.

Hydraulic fittings with various seals (light application). All torque values are in lb.-ft. (Nm) unless marked otherwise.

Thread	Straight pipe fitting with thread and screwed plug (GE)			Non-return valve with elastic seal	Identification aid outside Ø
	Sealing washer	Elastic seal	O-ring		
M10X1.0	7 (9)	13 (18)	11 (15)	13 (18)	0.4 in. (10 mm)
M12X1.5	15 (20)	18 (25)	18 (25)	18 (25)	0.5 in. (12 mm)
M14X1.5	26 (35)	33 (45)	26 (35)	26 (35)	0.6 in. (14 mm)
M16X1.5	33 (45)	41 (55)	30 (40)	37 (50)	0.6 in. (16 mm)
M18X1.5	41 (55)	52 (70)	33 (45)	52 (70)	0.7 in. (18 mm)
M22X1.5	48 (65)	92 (125)	44 (60)	92 (125)	0.9 in. (22 mm)
M27X2.0	66 (90)	133 (180)	74 (100)	107 (145)	1.0 in. (27 mm)
M33X2.0	111 (150)	229 (310)	118 (160)	155 (210)	1.3 in. (33 mm)
M42X2.0	177 (240)	332 (450)	155 (210)	266 (360)	1.7 in. (42 mm)
M48X2.0	214 (290)	398 (540)	192 (260)	398 (540)	1.9 in. (48 mm)
G1/8A	7 (9)	13 (18)	11 (15)	13 (18)	0.4 in. (9.73 mm)
G1/4A	26 (35)	26 (35)	22 (30)	26 (35)	0.5 in. (13.16 mm)
G3/8A	33 (45)	52 (70)	33 (45)	37 (50)	0.7 in. (16.66 mm)
G1/2A	48 (65)	66 (90)	41 (55)	48 (65)	0.8 in. (20.96 mm)
G3/4A	66 (90)	133 (180)	74 (100)	103 (140)	1.0 in. (26.44 mm)
G1A	111 (150)	229 (310)	118 (160)	140 (190)	1.3 in. (33.25 mm)
G1 1/4A	177 (240)	332 (450)	155 (210)	266 (360)	1.7 in. (41.91 mm)
G1 1/2A	214 (290)	398 (540)	192 (260)	398 (540)	1.9 in. (47.80 mm)

Hydraulic fittings with various seals (heavy application). All torque values are in lb.-ft. (Nm) unless marked otherwise.

Thread	Straight pipe fitting with thread and screwed plug (GE)			Non-return valve with elastic seal	Identification aid outside Ø
	Sealing washer	Elastic seal	O-ring		
M12X1.5	15 (20)	26 (35)	26 (35)	26 (35)	0.5 in. (12 mm)
M14X1.5	26 (35)	41 (55)	33 (45)	33 (45)	0.6 in. (14 mm)
M16X1.5	33 (45)	52 (70)	41 (55)	41 (55)	0.6 in. (16 mm)
M18X1.5	41 (55)	66 (90)	52 (70)	52 (70)	0.7 in. (18 mm)
M20X1.5	41 (55)	92 (125)	59 (80)	74 (100)	0.8 in. (20 mm)
M22X1.5	48 (65)	100 (135)	74 (100)	92 (125)	0.9 in. (22 mm)
M27X2.0	66 (90)	133 (180)	125 (170)	100 (135)	1.0 in. (27 mm)
M33X2.0	111 (150)	229 (310)	229 (310)	155 (210)	1.3 in. (33 mm)
M42X2.0	177 (240)	332 (450)	243 (330)	266 (360)	1.7 in. (42 mm)
M48X2.0	214 (290)	398 (540)	310 (420)	398 (540)	1.9 in. (48 mm)
G1/8A	26 (35)	41 (55)	33 (45)	33 (45)	0.5 in. (13.16 mm)
G1/4A	33 (45)	59 (80)	44 (60)	44 (60)	0.7 in. (16.66 mm)
G3/8A	48 (65)	85 (115)	55 (75)	74 (100)	0.8 in. (20.96 mm)
G1/2A	66 (90)	133 (180)	125 (170)	107 (145)	1.0 in. (26.44 mm)
G3/4A	111 (150)	229 (310)	229 (310)	192 (260)	1.3 in. (33.25 mm)
G1A	177 (240)	332 (450)	243 (330)	266 (360)	1.7 in. (41.91 mm)
G1 1/4A	214 (290)	398 (540)	310 (420)	398 (540)	1.9 in. (47.80 mm)

English coarse and fine pitch threads. All torque values are in lb.-ft. (Nm) unless marked otherwise.

Values marked with an asterisk (*) are in lb-in., values marked (**) are in Kg-Cm

Thread - Pitch	Grade 2		Grade 5		Grade 8	
	Dry	Lubed	Dry	Lubed	Dry	Lubed
8-32	19* (21**)	14* (16**)	30* (34**)	22* (25**)	41* (47**)	31* (35**)
8-36	20* (23**)	15* (17**)	31* (35**)	23* (26**)	43* (49**)	32* (36**)
10-24	27* (31**)	21* (24**)	43* (49**)	32* (36**)	60* (69**)	45* (51**)
10-32	31* (35**)	23* (26**)	49* (56**)	36* (41**)	68* (78**)	51* (58**)
1/4-20	66* (76**)	50* (57**)	9 (12)	75* (86**)	12 (16)	9 (12)
1/4-28	76* (87**)	56* (64**)	10 (14)	86* (99**)	14 (19)	10 (14)
5/16-18	11 (15)	9 (12)	17 (23)	13 (18)	25 (34)	18 (24)
5/16-24	12 (16)	9 (12)	19 (26)	14 (19)	25 (34)	20 (27)
3/8-16	20 (27)	15 (20)	30 (41)	23 (31)	45 (61)	35 (47)
3/8-24	23 (31)	17 (23)	35 (47)	25 (34)	50 (68)	35 (47)
7/16-14	32 (43)	24 (33)	50 (68)	35 (47)	70 (95)	55 (75)
7/16-20	36 (49)	27 (37)	55 (75)	40 (54)	80 (108)	60 (81)
1/2-13	35 (47)	35 (47)	75 (102)	55 (75)	110 (149)	80 (108)
1/2-20	40 (54)	40 (54)	90 (122)	65 (88)	120 (163)	90 (122)
9/16-12	55 (75)	55 (75)	110 (149)	80 (108)	150 (203)	110 (149)
9/16-18	60 (81)	60 (81)	120 (163)	90 (122)	170 (230)	130 (176)
5/8-11	75 (102)	75 (102)	150 (203)	110 (149)	220 (298)	170 (230)
5/8-18	85 (115)	85 (115)	180 (244)	130 (176)	240 (325)	180 (244)
3/4-10	130 (176)	130 (176)	260 (353)	200 (271)	380 (515)	280 (380)
3/4-16	150 (203)	150 (203)	300 (407)	220 (298)	420 (569)	320 (434)
7/8-9	125 (169)	125 (169)	430 (583)	320 (434)	600 (813)	460 (624)
7/8-14	140 (190)	140 (190)	470 (637)	360 (488)	660 (895)	500 (678)
1-8	190 (258)	190 (258)	640 (868)	480 (651)	900 (1220)	680 (922)
1-14	210 (285)	210 (285)	710 (963)	530 (719)	1000 (1356)	740 (1003)

Metric coarse-pitch thread. All torque values are in lb.-ft. (Nm) unless marked otherwise.

Thread	Threads according to DIN 912, DIN 931, DIN 933, etc.			Threads according to DIN 7984	
	8.8	10.9	12.9	8.8	10.9
M5	4.1 (5.5)	6 (8)	7 (10)	4 (5)	5 (7)
M6	7 (10)	10 (14)	13 (17)	6.3 (8.5)	9 (12)
M8	18 (25)	26 (35)	31 (42)	15 (20)	22 (30)
M10	33 (45)	48 (65)	59 (80)	30 (40)	44 (59)
M12	64 (87)	81 (110)	108 (147)	51 (69)	74 (100)
M14	100 (135)	133 (180)	170 (230)	81 (110)	118 (160)
M16	155 (210)	203 (275)	258 (350)	125 (170)	184 (250)
M18	207 (280)	302 (410)	354 (480)	181 (245)	254 (345)
M20	302 (410)	420 (570)	509 (690)	251 (340)	361 (490)
M22	406 (550)	575 (780)	686 (930)	339 (460)	487 (660)
M24	524 (710)	738 (1000)	878 (1190)	435 (590)	620 (840)
M27	767 (1040)	1092 (1480)	1305 (1770)	642 (870)	922 (1250)
M30	1047 (1420)	1482 (2010)	1770 (2400)	885 (1200)	1254 (1700)

Metric fine-pitch thread. All torque values are in lb.-ft. (Nm) unless marked otherwise.

Thread	Threads according to DIN 912, DIN 931, DIN 933, etc.			Threads according to DIN 7984	
	8.8	10.9	12.9	8.8	10.9
M8X1.0	18 (25)	27 (37)	32 (43)	16 (22)	24 (32)
M10X1.0	37 (50)	55 (75)	65 (88)	32 (43)	48 (65)
M10X1.25	36 (49)	52 (71)	61 (83)	31 (42)	46 (62)
M12X1.25	64 (87)	96 (130)	111 (150)	55 (75)	81 (110)
M12X1.5	61 (83)	92 (125)	107 (145)	53 (72)	77 (105)
M14X1.5	100 (135)	148 (200)	173 (235)	89 (120)	129 (175)
M16X1.5	155 (210)	229 (310)	266 (360)	133 (180)	195 (265)
M18X1.5	232 (315)	332 (450)	391 (530)	199 (270)	284 (385)
M20X1.5	325 (440)	465 (630)	538 (730)	277 (375)	391 (530)
M22X1.5	435 (590)	620 (840)	723 (980)	369 (500)	524 (710)
M24X2.0	546 (740)	789 (1070)	922 (1250)	465 (630)	664 (900)
M27X2.0	811 (1100)	1143 (1550)	1328 (1800)	679 (920)	959 (1300)
M30X2.0	1106 (1500)	1586 (2150)	1844 (2500)	959 (1300)	1364 (1850)

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