

DeltaTORQ™ Rings

Make the Right Connection.

DeltaTORQ™ Rings (DTRs™) have been developed to provide additional torque capacity in casing/tubing connections for the upstream market. These rings are designed to fit all standard API casing/tubing connections, providing a cost-effective, short-lead time semi-premium connection solution. The DeltaTORQ™ Ring makes optimal use of the available space in the connection J-section, providing you with more torque capacity and increased retention.

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DeltaTORQ™ Ring Specifications (4.5" Buttress Threaded and Coupled - BTC)

Casing Grade (API)	Weight	Expected API Minimum Shoulder Torque ¹	Maximum Delta Torque (with Torque Monitoring)	Maximum Delta Torque (without Torque Monitoring)	Maximum Target Torque (with Torque Monitoring) ¹	Maximum Target Torque (without Torque Monitoring) ¹
	lb/ft	ft.lbs	ft.lbs	ft.lbs	ft.lbs	ft.lbs
J-55	9.5	2,600	2,300	1,720	4,900	4,320
J-55	10.5	2,760	2,750	2,060	5,510	4,820
J-55	11.6	2,960	3,370	2,520	6,330	5,480
L-80	11.6	2,960	4,480	3,360	7,440	6,320
L-80	13.5	3,230	5,640	4,230	8,870	7,460
P-110	11.6	2,960	4,480	3,360	7,440	6,320
P-110	13.5	3,230	5,640	4,230	8,870	7,460

¹ All values are approximations and apply to the specifications and conditions outlined in Volant's DeltaTORQ™ Ring Field Makeup Procedure.

(Custom ring material may be available upon request.)

² A 5.5" BTC DeltaTORQ™ Ring is shown below for illustrative purposes only.



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DeltaTORQ™ Ring Specifications (5.0" Buttress Threaded and Coupled - BTC)

Casing Grade (API)	Weight	Expected API Minimum Shoulder Torque ¹	Maximum Delta Torque (with Torque Monitoring)	Maximum Delta Torque (without Torque Monitoring)	Maximum Target Torque (with Torque Monitoring) ¹	Maximum Target Torque (without Torque Monitoring) ¹
	lb/ft	ft.lbs	ft.lbs	ft.lbs	ft.lbs	ft.lbs
J-55	13.0	4,550	4,020	3,010	8,570	7,560
J-55	15.0	5,010	5,260	3,940	10,270	8,950
L-80	15.0	5,010	6,940	5,200	11,950	10,210
L-80	18.0	5,590	9,230	6,920	14,820	12,510
L-80	21.4	6,110	11,700	8,770	17,810	14,880
L-80	23.2	6,360	12,990	9,740	19,350	16,100
P-110	15.0	5,010	6,940	5,200	11,950	10,210
P-110	18.0	5,590	9,230	6,920	14,820	12,510
P-110	21.4	6,110	11,700	8,770	17,810	14,880
P-110	23.2	6,360	12,990	9,740	19,350	16,100

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DeltaTORQ™ Ring Specifications (5.5" Buttress Threaded and Coupled - BTC)

Casing Grade (API)	Weight	Expected API Minimum Shoulder Torque ¹	Maximum Delta Torque (with Torque Monitoring)	Maximum Delta Torque (without Torque Monitoring)	Maximum Target Torque (with Torque Monitoring) ¹	Maximum Target Torque (without Torque Monitoring) ¹
	lb/ft	ft.lbs	ft.lbs	ft.lbs	ft.lbs	ft.lbs
J-55	14.0	4,470	4,470	3,350	8,940	7,820
J-55	15.5	4,820	5,570	4,170	10,390	8,990
J-55	17.0	5,110	6,580	4,930	11,690	10,040
L-80	17.0	5,110	8,710	6,530	13,820	11,640
L-80	20.0	5,600	11,140	8,350	16,740	13,950
L-80	23.0	6,000	13,360	10,020	19,360	16,020
P-110	17.0	5,110	8,710	6,530	13,820	11,640
P-110	20.0	5,600	11,140	8,350	16,740	13,950
P-110	23.0	6,000	13,360	10,020	19,360	16,020

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DeltaTORQ™ Ring Specifications (7.0" Buttress Threaded and Coupled - BTC)

Casing Grade (API)	Weight	Expected API Minimum Shoulder Torque ¹	Maximum Delta Torque (with Torque Monitoring)	Maximum Delta Torque (without Torque Monitoring)	Maximum Target Torque (with Torque Monitoring) ¹	Maximum Target Torque (without Torque Monitoring) ¹
	lb/ft	ft.lbs	ft.lbs	ft.lbs	ft.lbs	ft.lbs
J-55	14.0	4,470	4,470	3,350	8,940	7,820
J-55	15.5	4,820	5,570	4,170	10,390	8,990
J-55	17.0	5,110	6,580	4,930	11,690	10,040
L-80	17.0	5,110	8,710	6,530	13,820	11,640
L-80	20.0	5,600	11,140	8,350	16,740	13,950
L-80	23.0	6,000	13,360	10,020	19,360	16,020
P-110	17.0	5,110	8,710	6,530	13,820	11,640
P-110	20.0	5,600	11,140	8,350	16,740	13,950
P-110	23.0	6,000	13,360	10,020	19,360	16,020

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DeltaTORQ™ Ring Specifications (7.63" Buttress Threaded and Coupled - BTC)

Casing Grade (API)	Weight	Expected API Minimum Shoulder Torque ¹	Maximum Delta Torque (with Torque Monitoring)	Maximum Delta Torque (without Torque Monitoring)	Maximum Target Torque (with Torque Monitoring) ¹	Maximum Target Torque (without Torque Monitoring) ¹
	lb/ft	ft.lbs	ft.lbs	ft.lbs	ft.lbs	ft.lbs
J-55	26.4	8,480	13,010	9,750	21,490	18,230
L-80	26.4	8,480	17,510	13,130	25,990	21,610
L-80	29.7	9,240	21,500	16,120	30,740	25,360
L-80	33.7	10,010	26,050	19,530	36,060	29,540
L-80	39.0	10,860	31,680	23,760	42,540	34,620
P-110	29.7	9,240	21,500	16,120	30,740	25,360
P-110	33.7	10,010	26,050	19,530	36,060	29,540
P-110	39.0	10,860	31,680	23,760	42,540	34,620

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DeltaTORQ™ Ring Specifications (8.63" Buttress Threaded and Coupled - BTC)

Casing Grade (API)	Weight	Expected API Minimum Shoulder Torque ¹	Maximum Delta Torque (with Torque Monitoring)	Maximum Delta Torque (without Torque Monitoring)	Maximum Target Torque (with Torque Monitoring) ¹	Maximum Target Torque (without Torque Monitoring) ¹
	lb/ft	ft.lbs	ft.lbs	ft.lbs	ft.lbs	ft.lbs
J-55	24.0	6,890	10,590	7,940	17,480	14,830
J-55	32.0	8,460	18,380	13,780	26,840	22,240
J-55	36.0	9,180	22,510	16,880	31,690	26,060
L-80	36.0	9,180	29,990	22,490	39,170	31,670
L-80	40.0	9,860	35,330	26,490	45,190	36,350
L-80	44.0	10,470	40,560	30,420	51,030	40,890
P-110	40.0	9,860	35,330	26,490	45,190	36,350
P-110	44.0	10,470	40,560	30,420	51,030	40,890

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DeltaTORQ™ Ring Specifications (9.63" Buttress Threaded and Coupled - BTC)

Casing Grade (API)	Weight	Expected API Minimum Shoulder Torque ¹	Maximum Delta Torque (with Torque Monitoring)	Maximum Delta Torque (without Torque Monitoring)	Maximum Target Torque (with Torque Monitoring) ¹	Maximum Target Torque (without Torque Monitoring) ¹
	lb/ft	ft.lbs	ft.lbs	ft.lbs	ft.lbs	ft.lbs
J-55	36.0	8,460	22,870	17,150	31,330	25,610
J-55	40.0	9,110	27,540	20,650	36,650	29,760
L-80	40.0	9,110	38,010	28,500	47,120	37,610
L-80	43.5	9,660	43,410	32,550	53,070	42,210
L-80	47.0	10,140	48,340	36,250	58,480	46,390
L-80	53.5	10,970	57,870	43,400	68,840	54,370
P-110	43.5	9,660	43,410	32,550	53,070	42,210
P-110	47.0	10,140	48,340	36,250	58,480	46,390
P-110	53.5	10,970	57,870	43,400	68,840	54,370

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DeltaTORQ™ Ring Specifications (10.75" Buttress Threaded and Coupled - BTC)

Casing Grade (API)	Weight	Expected API Minimum Shoulder Torque ¹	Maximum Delta Torque (with Torque Monitoring)	Maximum Delta Torque (without Torque Monitoring)	Maximum Target Torque (with Torque Monitoring) ¹	Maximum Target Torque (without Torque Monitoring) ¹
	lb/ft	ft.lbs	ft.lbs	ft.lbs	ft.lbs	ft.lbs
J-55	40.5	8,420	28,220	21,160	36,640	29,580
J-55	45.5	9,180	35,060	26,290	44,240	35,470

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DeltaTORQ™ Rings (11.75" BTC)

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DeltaTORQ™ Ring Specifications (11.75" Buttress Threaded and Coupled - BTC)

Casing Grade (API)	Weight	Expected API Minimum Shoulder Torque ¹	Maximum Delta Torque (with Torque Monitoring)	Maximum Delta Torque (without Torque Monitoring)	Maximum Target Torque (with Torque Monitoring) ¹	Maximum Target Torque (without Torque Monitoring) ¹
	lb/ft	ft.lbs	ft.lbs	ft.lbs	ft.lbs	ft.lbs
J-55	47.0	8,810	37,770	28,320	46,580	37,130
J-55	60.0	10,340	56,240	42,180	66,580	52,520
L-80	60.0	10340	76,530	57,390	86,870	67,730
P-110	60.0	10340	76,530	57,390	86,870	67,730

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DeltaTORQ™ Ring Specifications (13.38" Buttress Threaded and Coupled - BTC)

Casing Grade (API)	Weight	Expected API Minimum Shoulder Torque ¹	Maximum Delta Torque (with Torque Monitoring)	Maximum Delta Torque (without Torque Monitoring)	Maximum Target Torque (with Torque Monitoring) ¹	Maximum Target Torque (without Torque Monitoring) ¹
	lb/ft	ft.lbs	ft.lbs	ft.lbs	ft.lbs	ft.lbs
J-55	54.5	8,880	49,820	37,360	58,700	46,240
J-55	61.0	9,590	60,540	45,400	70,130	54,990
J-55	68.0	10,230	71,100	53,320	81,330	63,550
L-80	68.0	10,230	97,590	73,190	107,820	83,420
P-110	68.0	10,230	97,590	73,190	107,820	83,420

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DeltaTORQ™ Ring Specifications (16.0" Buttress Threaded and Coupled - BTC)

Casing Grade (API)	Weight	Expected API Minimum Shoulder Torque ¹	Maximum Delta Torque (with Torque Monitoring)	Maximum Delta Torque (without Torque Monitoring)	Maximum Target Torque (with Torque Monitoring) ¹	Maximum Target Torque (without Torque Monitoring) ¹
	lb/ft	ft.lbs	ft.lbs	ft.lbs	ft.lbs	ft.lbs
J-55	75.0	8,800	67,610	50,700	76,410	59,500
J-55	84.0	9,470	85,030	63,770	94,500	73,240
J-55	109.0	11,000	133,120	99,840	144,120	110,840
L-80	109.0	11,000	184,040	138,030	195,040	149,030
P-110	109.0	11,000	184,040	138,030	195,040	149,030

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DeltaTORQ™ Ring Specifications (18.63" Buttress Threaded and Coupled - BTC)

Casing Grade (API)	Weight	Expected API Minimum Shoulder Torque ¹	Maximum Delta Torque (with Torque Monitoring)	Maximum Delta Torque (without Torque Monitoring)	Maximum Target Torque (with Torque Monitoring) ¹	Maximum Target Torque (without Torque Monitoring) ¹
	lb/ft	ft.lbs	ft.lbs	ft.lbs	ft.lbs	ft.lbs
J-55	87.5	9,850	89,560	67,170	99,410	77,020

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DeltaTORQ™ Ring Specifications (20.0" Buttress Threaded and Coupled - BTC)

Casing Grade (API)	Weight	Expected API Minimum Shoulder Torque ¹	Maximum Delta Torque (with Torque Monitoring)	Maximum Delta Torque (without Torque Monitoring)	Maximum Target Torque (with Torque Monitoring) ¹	Maximum Target Torque (without Torque Monitoring) ¹
	lb/ft	ft.lbs	ft.lbs	ft.lbs	ft.lbs	ft.lbs
J-55	94.0	8,800	104,170	78,120	112,970	86,920
J-55	133.0	10,820	198,690	149,010	209,510	159,830

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