



Torque Values



Proper torque values are essential not only for achieving an effective seal but also for ensuring the longevity and reliability of the gasket and the overall system. Insufficient torque can result in inadequate compression, leading to gaps and uneven pressure distribution on the gasket. This can cause leaks and compromise the system's performance. On the other hand, excessive torque may deform the gasket, leading to its premature failure or damage to the mating surfaces.

The following pages reference the correct torque values that should be applied when properly installing Durlon® gaskets.

DURLON®
SEALING SOLUTIONS

Torque Values - Durlon® Sheet Gasket Material

Pipe Size	ASME B16.21 Ring Gasket, Ft-Lbs (N-M)					
	Fasteners: A193-B7 or B16 lubricated with a never seize type lubricant, k=0.17					
	Class 150			Class 300		
	Min. ^[1, 2]	Optimal ^[1, 3]	Max. ^[4, 5]	Min. ^[1, 2]	Optimal ^[1, 3]	Max. ^[4, 5]
½"	10 (14)	25 (33)	25 (33)	10 (14)	25 (34)	25 (34)
¾"	15 (20)	30 (41)	35 (48)	15 (20)	45 (61)	45 (61)
1"	15 (20)	35 (48)	50 (68)	20 (27)	55 (75)	60 (81)
1 ¼"	25 (34)	45 (61)	75 (102)	35 (47)	80 (108)	90 (122)
1 ½"	30 (41)	60 (82)	80 (109)	50 (68)	140 (190)	145 (197)
2"	65 (88)	120 (163)	160 (217)	35 (47)	80 (108)	100 (136)
2 ½"	80 (108)	120 (163)	160 (217)	50 (68)	125 (169)	135 (183)
3"	115 (156)	150 (203)	160 (217)	75 (102)	180 (244)	200 (271)
3 ½"	65 (88)	120 (163)	160 (217)	85 (115)	180 (244)	225 (305)
4"	80 (109)	120 (163)	160 (217)	105 (142)	215 (292)	285 (386)
5"	120 (163)	215 (292)	280 (380)	140 (190)	215 (292)	285 (386)
6"	155 (211)	230 (312)	285 (386)	120 (163)	195 (264)	285 (386)
8"	215 (291)	285 (386)	285 (386)	195 (264)	315 (427)	460 (624)
10"	210 (284)	345 (468)	460 (624)	215 (292)	385 (522)	490 (664)
12"	280 (380)	400 (542)	460 (624)	330 (447)	570 (773)	735 (997)
14"	355 (481)	515 (698)	685 (929)	295 (400)	570 (773)	640 (868)
16"	340 (461)	515 (698)	675 (915)	420 (569)	795 (1078)	900 (1220)
18"	500 (678)	755 (1024)	1010 (1369)	465 (630)	885 (1200)	1020 (1383)
20"	460 (624)	755 (1024)	1010 (1369)	530 (719)	885 (1200)	1120 (1519)
22"	610 (827)	1060 (1437)	1415 (1918)	760 (1030)	1425 (1932)	1600 (2169)
24"	670 (909)	1060 (1437)	1415 (1918)	850 (1152)	1425 (1932)	1740 (2359)

Disclaimer: This is a general guide only and TFC/GRI, does not accept responsibility for negligence or misuse of this information.

General Notes:

- Torque Values are in ft.-lbs. and assume new A193 Gr. B7 or B16 fasteners with 2H heavy hex nuts; with studs, nuts and the nut bearing surfaces lubricated with a never-seize type lubricant (k = 0.17).
- A193 Gr. B7 & B16 fasteners have the same yield strength up to 4" diameter. There are "no" fasteners above 4" diameter in this chart.
- All torque values are based on using a "calibrated" torque wrench.
- All torque values in the chart above are based on using the tensile area of the fastener.
- All torque values in chart are rounded to nearest 5 ft.-lbs.

Footnotes:

^[1] Torque values are based using ASME B16.5-2017 MAWP (Maximum Allowable Working Pressure) at ambient in the gasket stress calculation.

Min. Torque Values:

^[2] Min. torque values are based achieving 4,800 psi gasket stress without exceeding 80,000 psi bolt stress or PCC-1 2019 FEA SA105 Max. Stud Stress Before Flange Yielding.

Optimal Torque Values:

^[3] Optimal torque values are based on a target of 7,000 to 12,000 psi optimum gasket stress without exceeding 80,000 psi bolt stress or PCC-1 2019 FEA SA105 Max. Stud Stress Before Flange Yielding.

	Cases where torque equals ≤ 60,000 bolts stress
	Cases where torque equals > 60,000 ≤ 75,000 bolts stress
	Cases where torque equals > 75,000 ≤ 80,000 bolts stress

Max. Torque Values:

^[4] Max. torque values are based on; max allowable 15,000 psi gasket stress; PCC-1 2019 FEA SA105 Max. Stud Stress Before Flange Yielding, or 80,000 psi bolt stress, whichever occurs 1st. Note: In some cases the max. torque values may be equal to the optimal torque values in order to optimize gasket stress levels.

^[5] ½" through 1 ½" NPS & 3 ½" NPS due to "No Data" on flange yielding; Max. torque values are set to achieve max gasket stress of 15,000 or 80,000 psi bolt stress, whichever occurs 1st.

	Cases where torque is based on 80,000 bolts stress.
	Cases where torque is based on PCC-1 2019 FEA SA105 Max. Stud Stress Before Flange Yielding.
	Cases where torque is based on max. allowable 15,000 psi gasket stress.

Torque Values - Durlon® Spiral Wound Gaskets – Class 150 & 300

Pipe Size	ASME B16.20 SWG Gasket, Ft-Lbs (N-M)					
	Fasteners: A193-B7 or B16 lubricated with a never seize type lubricant, k = 0.17					
	Class 150			Class 300		
	Min. [1, 2]	Optimal [1, 3]	Max. [4, 5]	Min. [1, 2]	Optimal [1, 3]	Max. [4, 5]
½"	20 (27)	35 (47)	55 (75)	20 (27)	35 (47)	55 (75)
¾"	25 (34)	50 (68)	80 (109)	30 (41)	65 (88)	100 (136)
1"	35 (47)	70 (95)	80 (109)	45 (61)	90 (122)	135 (183)
1 ¼"	40 (54)	*75 (102)	80 (109)	50 (68)	100 (136)	150 (203)
1 ½"	55 (75)	*75 (102)	80 (109)	85 (115)	165 (224)	250 (339)
2"	90 (122)	*150 (203)	160 (217)	45 (61)	90 (122)	115 (156)
2 ½"	105 (142)	*150 (203)	160 (217)	65 (88)	125 (169)	170 (230)
3"	150 (203)	**150 (203)	160 (217)	100 (136)	185 (251)	225 (305)
3 ½"	85 (116)	*150 (203)	160 (217)	110 (149)	210 (285)	285 (386)
4"	110 (150)	*150 (203)	160 (217)	145 (197)	*265 (359)	285 (386)
5"	160 (218)	*265 (359)	280 (380)	180 (244)	*265 (359)	285 (386)
6"	230 (313)	**265 (359)	285 (386)	170 (230)	*265 (359)	285 (386)
8"	285 (386)	***285 (386)	285 (386)	285 (386)	*430 (583)	460 (624)
10"	315 (427)	*430 (583)	460 (624)	310 (420)	560 (759)	675 (915)
12"	430 (583)	**435 (590)	460 (624)	480 (651)	865 (1173)	990 (1342)
14"	545 (739)	*645 (875)	685 (929)	425 (576)	760 (1030)	795 (1078)
16"	545 (739)	**645 (875)	675 (915)	635 (861)	*1105 (1498)	1115 (1512)
18"	870 (1180)	**945 (1281)	1005 (1363)	740 (1003)	*1200 (1627)	1210 (1641)
20"	775 (1051)	*945 (1281)	1005 (1363)	830 (1125)	*1290 (1749)	1300 (1763)
22"	635 (861)	*930 (1261)	1415 (1918)	1050 (1424)	*1830 (2481)	2330 (3159)
24"	1135 (1539)	**1325 (1796)	1415 (1918)	1325 (1796)	*2150 (2915)	2165 (2935)

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General Notes:

- Torque Values are in ft.-lbs. and assume new A193 Gr. B7 or B16 fasteners with 2H heavy hex nuts; with studs, nuts and the nut bearing surfaces lubricated with a never-seize type lubricant (k = 0.17).
- A193 Gr. B7 & B16 fasteners have the same yield strength up to 4" diameter. There are "no" fasteners above 4" diameter in this chart.
- All torque values are based on using a "calibrated" torque wrench.
- All torque values in the chart above are based on the use of an inner/outer ring style (DRI) spiral wound gasket.
- All torque values in the chart above are based on using the tensile area of the fastener.
- All torque values in chart are rounded to nearest 5 ft.-lbs.

Footnotes:

⁽¹⁾ Torque values are based using ASME B16.5-2017 MAWP (Maximum Allowable Working Pressure) at ambient in the gasket stress calculation.

Min. Torque Values:

⁽²⁾ Min. torque values are based achieving 12,500 psi gasket stress or at minimum above 10,000 psi gasket stress without exceeding 80,000 psi bolt stress or PCC-1 2019 FEA SA105 Max. Stud Stress Before Flange Yielding.

 Cases where gasket stress is >10,000 < 12,500 psi

Optimal Torque Values:

⁽³⁾ Optimal torque values are based on 25,000 psi optimum gasket stress without exceeding 80,000 psi bolt stress or 500 psi below PCC-1 2019 FEA SA105 Max. Stud Stress Before Flange Yielding.

 Cases where torque equals ≤ 60,000 bolts stress

 Cases where torque equals > 60,000 ≤ 75,000 bolts stress

 Cases where torque equals > 75,000 ≤ 80,000 bolts stress

*Cases where gasket stress is ≥ 15,000 < 25,000 psi, **Cases where gasket stress is ≥ 12,500 < 15,000 psi, ***Cases where gasket stress is ≥ 10,000 < 12,500 psi

Max. Torque Values:

⁽⁴⁾ Max. torque values are based on; max allowable 40,000 psi gasket stress; PCC-1 2019 FEA SA105 Max. Stud Stress Before Flange Yielding, or 80,000 psi bolt stress, whichever occurs 1st. Note: In some cases the max. torque values may be equal to the optimal torque values in order to optimize gasket stress levels.

⁽⁵⁾ ½" through 1 ½" NPS & 3 ½" NPS due to "No Data" on flange yielding; Max. torque values are set to achieve max gasket stress of 40,000 or 80,000 psi bolt stress, whichever occurs 1st.

 Cases where torque is based on 80,000 bolts stress.

 Cases where torque is based on PCC-1 2019 FEA SA105 Max. Stud Stress Before Flange Yielding.

 Cases where torque is based on max. allowable 40,000 psi gasket stress.

Torque Values - Durlon® Spiral Wound Gaskets – Class 400 & 600

Pipe Size	ASME B16.20 SWG Gasket, Ft-Lbs (N-M)					
	Fasteners: A193-B7 or B16 lubricated with a never seize type lubricant, k = 0.17					
	Class 400			Class 600		
	Min. [1, 2]	Optimal [1, 3]	Max. [4, 5]	Min. [1, 2]	Optimal [1, 3]	Max. [4, 5]
½"	20 (27)	35 (47)	55 (75)	20 (27)	35 (47)	55 (75)
¾"	35 (47)	65 (88)	100 (136)	35 (47)	65 (88)	100 (136)
1"	45 (61)	90 (122)	135 (183)	45 (61)	90 (122)	135 (183)
1 ¼"	50 (68)	100 (136)	150 (203)	55 (75)	100 (136)	150 (203)
1 ½"	90 (122)	170 (230)	250 (339)	95 (129)	170 (230)	250 (339)
2"	50 (68)	90 (122)	125 (169)	50 (68)	95 (129)	135 (183)
2 ½"	70 (95)	130 (176)	185 (251)	75 (102)	135 (183)	185 (251)
3"	100 (136)	190 (258)	260 (353)	110 (149)	195 (264)	275 (373)
3 ½"	180 (244)	345 (468)	455 (617)	190 (258)	355 (481)	455 (617)
4"	210 (285)	395 (536)	420 (569)	225 (305)	410 (556)	455 (617)
5"	270 (366)	*430 (583)	455 (617)	335 (454)	600 (813)	685 (929)
6"	250 (339)	*430 (583)	455 (617)	305 (414)	550 (746)	685 (929)
8"	405 (549)	*645 (875)	685 (929)	500 (678)	880 (1193)	1005 (1363)
10"	475 (644)	*785 (1064)	795 (1078)	580 (786)	1010 (1369)	1370 (1857)
12"	705 (956)	**735 (997)	745 (1010)	620 (841)	1070 (1451)	1300 (1763)
14"	600 (813)	*885 (1200)	930 (1261)	735 (997)	1250 (1695)	1620 (2196)
16"	860 (1166)	*1250 (1695)	1260 (1708)	1045 (1417)	1775 (2407)	2165 (2935)
18"	920 (1247)	*1440 (1952)	1515 (2054)	1455 (1973)	2470 (3349)	3195 (4332)
20"	1135 (1539)	*1650 (2237)	1665 (2257)	1385 (1878)	2305 (3125)	2930 (3973)
22"	1230 (1668)	*2075 (2813)	2145 (2908)	1535 (2081)	*2450 (3322)	2905 (3939)
24"	1670 (2264)	*2450 (3322)	2710 (3674)	2055 (2786)	3335 (4522)	4050 (5491)

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General Notes:

- Torque Values are in ft.-lbs. and assume new A193 Gr. B7 or B16 fasteners with 2H heavy hex nuts; with studs, nuts and the nut bearing surfaces lubricated with a never-seize type lubricant (k = 0.17).
- A193 Gr. B7 & B16 fasteners have the same yield strength up to 4" diameter. There are "no" fasteners above 4" diameter in this chart.
- All torque values are based on using a "calibrated" torque wrench.
- All torque values in the chart above are based on the use of an inner/outer ring style (DRI) spiral wound gasket.
- All torque values in the chart above are based on using the tensile area of the fastener.
- All torque values in chart are rounded to nearest 5 ft.-lbs.

Footnotes:

⁽¹⁾ Torque values are based using ASME B16.5-2017 MAWP (Maximum Allowable Working Pressure) at ambient in the gasket stress calculation.

Min. Torque Values:

⁽²⁾ Min. torque values are based achieving 12,500 psi gasket stress or at minimum above 10,000 psi gasket stress without exceeding 80,000 psi bolt stress or PCC-1 2019 FEA SA105 Max. Stud Stress Before Flange Yielding.

Optimal Torque Values:

⁽³⁾ Optimal torque values are based on 25,000 psi optimum gasket stress without exceeding 80,000 psi bolt stress or 500 psi below PCC-1 2019 FEA SA105 Max. Stud Stress Before Flange Yielding.

	Cases where torque equals ≤ 60,000 bolts stress
	Cases where torque equals > 60,000 ≤ 75,000 bolts stress
	Cases where torque equals > 75,000 ≤ 80,000 bolts stress

*Cases where gasket stress is ≥ 15,000 < 25,000 psi, **Cases where gasket stress is ≥ 12,500 < 15,000 psi, ***Cases where gasket stress is ≥ 10,000 < 12,500 psi

Max. Torque Values:

⁽⁴⁾ Max. torque values are based on; max allowable 40,000 psi gasket stress; PCC-1 2019 FEA SA105 Max. Stud Stress Before Flange Yielding, or 80,000 psi bolt stress, whichever occurs 1st. Note: In some cases the max. torque values may be equal to the optimal torque values in order to optimize gasket stress levels.

⁽⁵⁾ ½" through 1 ½" NPS & 3 ½" NPS due to "No Data" on flange yielding; Max. torque values are set to achieve max gasket stress of 40,000 or 80,000 psi bolt stress, whichever occurs 1st.

	Cases where torque is based on 80,000 bolts stress.
	Cases where torque is based on PCC-1 2019 FEA SA105 Max. Stud Stress Before Flange Yielding.
	Cases where torque is based on max. allowable 40,000 psi gasket stress.

Torque Values - Durlon® Spiral Wound Gaskets – Class 900, 1500 & 2500

Pipe Size	ASME B16.20 SWG Gasket, Ft-Lbs (N-M)								
	Fasteners: A193-B7 or B16 lubricated with a never seize type lubricant, k = 0.17								
	Class 900			Class 1500			Class 2500		
	Min. [1. 2]	Optimal [1. 3]	Max. [4. 5]	Min. [1. 2]	Optimal [1. 3]	Max. [4. 5]	Min. [1. 2]	Optimal [1. 3]	Max. [4. 5]
½"	30 (41)	55 (75)	85 (115)	30 (41)	55 (75)	85 (115)	35 (47)	60 (81)	85 (115)
¾"	40 (54)	80 (108)	120 (163)	45 (61)	85 (115)	120 (163)	50 (68)	90 (122)	120 (163)
1"	70 (95)	130 (176)	190 (258)	75 (102)	135 (183)	190 (258)	85 (115)	145 (197)	190 (258)
1 ¼"	110 (149)	210 (285)	315 (427)	120 (163)	220 (298)	315 (427)	155 (210)	270 (366)	360 (488)
1 ½"	160 (217)	305 (414)	450 (610)	175 (237)	315 (427)	450 (610)	225 (305)	385 (522)	505 (685)
2"	105 (142)	200 (271)	295 (400)	115 (156)	210 (285)	295 (400)	150 (203)	260 (353)	340 (461)
2 ½"	155 (210)	290 (393)	415 (563)	170 (230)	300 (407)	415 (563)	220 (298)	370 (502)	470 (637)
3"	165 (224)	295 (400)	415 (563)	260 (353)	445 (603)	585 (793)	345 (468)	555 (752)	655 (888)
4"	315 (427)	555 (752)	750 (1017)	425 (576)	715 (969)	915 (1241)	620 (841)	965 (1308)	1095 (1485)
5"	460 (624)	795 (1078)	1060 (1437)	695 (942)	1155 (1566)	1445 (1959)	1000 (1356)	1550 (2102)	1685 (2285)
6"	380 (515)	655 (888)	865 (1173)	575 (780)	935 (1268)	1145 (1552)	1565 (2122)	2355 (3193)	2505 (3396)
8"	630 (854)	1055 (1430)	1330 (1803)	975 (1322)	1550 (2102)	1830 (2481)	1530 (2074)	*2120 (2874)	2255 (3057)
10"	630 (854)	1010 (1369)	1210 (1641)	1575 (2135)	2470 (3349)	2770 (3756)	2690 (3647)	*3225 (4373)	3435 (4657)
12"	730 (900)	1190 (1613)	1460 (1979)	1665 (2257)	2510 (3403)	2655 (3600)	4180 (5667)	*5175 (7016)	5510 (7471)
14"	905 (1227)	1455 (1973)	1740 (2359)	2055 (2786)	*2665 (3613)	2815 (3817)	-	-	-
16"	1205 (1634)	1900 (2576)	2165 (2935)	3125 (4237)	*4480 (6074)	4730 (6413)	-	-	-
18"	1910 (2590)	3075 (4169)	3640 (4935)	4445 (6027)	*6230 (8447)	6670 (9043)	-	-	-
20"	2235 (3030)	3450 (4678)	3830 (5193)	5680 (7701)	*7600 (10304)	8025 (10880)	-	-	-
24"	3680 (4989)	*5425 (7354)	5730 (7769)	9180 (12446)	*11770 (15958)	12415 (16833)	-	-	-

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General Notes:

- Torque Values are in ft.-lbs. and assume new A193 Gr. B7 or B16 fasteners with 2H heavy hex nuts; with studs, nuts and the nut bearing surfaces lubricated with a never-seize type lubricant (k = 0.17).
- A193 Gr. B7 & B16 fasteners have the same yield strength up to 4" diameter. There are "no" fasteners above 4" diameter in this chart.
- All torque values are based on using a "calibrated" torque wrench.
- All torque values in the chart above are based on the use of an inner/outer ring style (DRI) spiral wound gasket.
- All torque values in the chart above are based on using the tensile area of the fastener.
- All torque values in chart are rounded to nearest 5 ft.-lbs.

Footnotes:

^[1] Torque values are based using ASME B16.5-2017 MAWP (Maximum Allowable Working Pressure) at ambient in the gasket stress calculation.

Min. Torque Values:

^[2] Min. torque values are based achieving 12,500 psi gasket stress or at minimum above 10,000 psi gasket stress without exceeding 80,000 psi bolt stress or PCC-1 2019 FEA SA105 Max. Stud Stress Before Flange Yielding.

Optimal Torque Values:

^[3] Optimal torque values are based on 25,000 psi optimum gasket stress without exceeding 80,000 psi bolt stress or 500 psi below PCC-1 2019 FEA SA105 Max. Stud Stress Before Flange Yielding.

	Cases where torque equals ≤ 60,000 bolts stress
	Cases where torque equals > 60,000 ≤ 75,000 bolts stress
	Cases where torque equals > 75,000 ≤ 80,000 bolts stress

*Cases where gasket stress is ≥ 15,000 < 25,000 psi, **Cases where gasket stress is ≥ 12,500 < 15,000 psi, ***Cases where gasket stress is ≥ 10,000 < 12,500 psi

Max. Torque Values:

^[4] Max. torque values are based on: max allowable 40,000 psi gasket stress; PCC-1 2019 FEA SA105 Max. Stud Stress Before Flange Yielding, or 80,000 psi bolt stress, whichever occurs 1st. Note: In some cases the max. torque values may be equal to the optimal torque values in order to optimize gasket stress levels.

^[5] ½" through 1 ½" NPS & 3 ½" NPS due to "No Data" on flange yielding; Max. torque values are set to achieve max gasket stress of 40,000 or 80,000 psi bolt stress, whichever occurs 1st.

	Cases where torque is based on 80,000 bolts stress.
	Cases where torque is based on PCC-1 2019 FEA SA105 Max. Stud Stress Before Flange Yielding.
	Cases where torque is based on max. allowable 40,000 psi gasket stress.

Torque Values - Durlon® LT 100 EPDM/PTFE – B16.5 150# Flat Face Flanges

Nominal Pipe Size	No. of Bolts	Bolt Size, inches	Minimum Torque, ft-lbs (N-m)	Maximum Torque, ft-lbs (N-m)
1/2"	4	0.50	8 (11)	15 (20)
3/4"	4	0.50	10 (14)	19 (26)
1"	4	0.50	12 (16)	23 (31)
1-1/4"	4	0.50	13 (18)	27 (37)
1-1/2"	4	0.50	15 (20)	30 (41)
2"	4	0.63	27 (37)	54 (73)
2-1/2"	4	0.63	37 (50)	75 (102)
3"	4	0.63	41 (56)	81 (110)
4"	8	0.63	27 (37)	55 (75)
5"	8	0.75	34 (46)	68 (92)
6"	8	0.75	38 (52)	77 (104)
8"	8	0.75	55 (75)	111 (150)
10"	12	0.88	54 (73)	108 (146)
12"	12	0.88	78 (106)	155 (210)
14"	12	1.00	112 (152)	223 (302)
16"	16	1.00	101 (137)	201 (273)
18"	16	1.13	110 (149)	220 (298)
20"	20	1.13	103 (140)	207(281)
24"	20	1.25	144 (195)	289 (392)

Notes:

Available in ASME B16.21 Class 150 Flange Gaskets from 1/2" to 24".

Torque values are based on 250psi internal pressure.

Minimum recommended torque value is possible if internal pressure is lower than 250psi.

Maximum torque is permissible provided it does not exceed flange manufacturers maximum torque value or allowable bolt stress.

Minimum torque and maximum torque are based on 500psi and 1000 psi gasket stress respectively.

For raised face flange torque values, please contact manufacturer for recommendations.

Note: Torque values are based on A307 or A193 B8/B8M Class 1 bolts. Higher-strength bolts may be used; however, at these torque values, they will be loaded to a lower percentage of their yield strength than intended.

Insufficient bolt stretch (preload) reduces elastic clamping force and the joint's ability to maintain a seal under pressure cycling and thermal fluctuation. If higher-strength bolts are used, consult your bolting engineer to verify adequate preload is achieved.

Warning: Durlon® gasket materials should never be recommended when both temperature and pressure are at the maximum listed. Properties and applications stated are typical. No applications should be undertaken by anyone without independent study and evaluation for suitability. Never use more than one gasket in one flange joint and never reuse a gasket. Improper use or gasket selection could cause property damage and/or serious injury. Data reported is a compilation of field testing, field service reports and/or in-house testing. While the utmost care has gone into publishing the information contained herein, we assume no responsibility for errors. Specifications and information contained within are subject to change without notice. This edition cancels and obsoletes all previous editions.

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