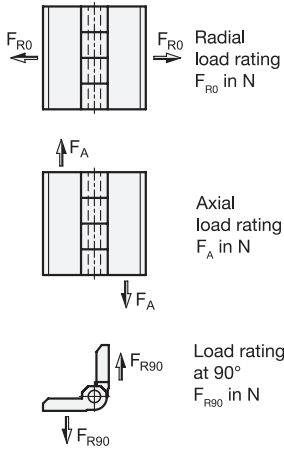


# Load rating of plastic hinges

in ascending order of the standard numbers



The values given in (...) are the breaking loads determined in a series of tests. They are designed to estimate the safety factor.

When attaching the different hinges, a maximum tightening torque must not be exceeded.

The details given on load rating are non-binding guide values without any liability. In general, they do not constitute a warranty of quality. The user must determine from case to case if a product is suitable for the intended purpose.

Article No.	Radial load rating		Axial load rating		Max. tightening torque of the hinge attachment in Nm		
	$L_{R0}$ in N	$L_{R90}$ in N	$L_A$ in N		Bore	Thread	Bolt
GN 122.1-45-50-SH	350 (1970)	345 (620)	300 (1220)		1,5	-	-
-45-50-CH	350 (1970)	345 (620)	300 (1220)		1,5	-	-
-45-50-EH	350 (1970)	345 (620)	300 (1220)		1,5	-	-
GN 122.2-45-50-SH	350 (1970)	345 (620)	300 (1220)		1,5	-	-
-45-50-CH	350 (1970)	345 (620)	300 (1220)		1,5	-	-
-45-50-EH	350 (1970)	345 (620)	300 (1220)		1,5	-	-
GN 151 -39-40-A	240 (2220)	100 (730)	200 (2050)		-	5	-
-39-40-B	230 (1760)	180 (1330)	137 (1800)		1	-	-
-39-40-C	290 (2030)	280 (1520)	130 (2080)		1	-	-
-48-49-A	440 (3070)	170 (1470)	400 (3770)		-	5	-
-48-49-B	310 (2530)	250 (1620)	360 (3080)		2	-	-
-48-49-C	310 (2880)	320 (2490)	300 (2960)		2	-	-
-48-49-D	360 (1970)	200 (1680)	370 (3070)		-	-	5
-48-49-E	320 (1970)	200 (1620)	360 (3070)		2	-	5
-48-49-F	280 (1970)	200 (1680)	370 (2960)		2	-	5
-48-49-G	360 (1970)	200 (1470)	370 (3070)		-	5	5
-48-49-H	320 (2530)	170 (1470)	360 (3080)		2	5	-
-48-49-I	280 (2880)	170 (1470)	400 (2960)		2	5	-
-64-65-A	690 (5670)	220 (2280)	640 (4570)		-	5	-
-64-65-B	490 (5790)	260 (3190)	510 (5280)		5	-	-
-64-65-C	720 (6270)	240 (4180)	520 (4760)		3	-	-
-64-65-D	460 (6620)	220 (3190)	510 (5890)		-	-	5
-64-65-E	460 (5790)	220 (3190)	510 (5280)		3	-	5
-64-65-F	460 (6270)	220 (3190)	510 (4760)		5	-	5
-64-65-G	460 (5670)	220 (2280)	510 (4570)		-	5	5
-64-65-H	460 (5670)	220 (2280)	510 (4570)		5	5	-
-64-65-I	690 (5670)	220 (2280)	640 (4570)		3	5	-
-98-98-A	2120 (17940)	590 (5210)	970 (7660)		-	5	-
-98-98-B	2060 (13670)	540 (4760)	1050 (4860)		5	-	-
-98-98-C	1230 (10460)	510 (4100)	1110 (6730)		5	-	-

Article No.	Radial load rating				Axial load rating		Max. tightening torque of the hinge attachment in Nm		
	L <sub>R0</sub> in N		L <sub>R90</sub> in N		L <sub>A</sub> in N		Bore	Thread	Bolt
GN 151 -98-98-D	1730	(16190)	460	(3690)	890	(5950)	-	-	5
-98-98-E	1730	(13670)	460	(3690)	890	(4860)	5	-	5
-98-98-F	1230	(10460)	460	(3690)	890	(5950)	5	-	5
-98-98-G	1730	(16190)	460	(3690)	890	(5950)	-	5	5
-98-98-H	2060	(13670)	540	(4760)	970	(4860)	5	5	-
-98-98-I	1230	(10460)	510	(4110)	970	(6730)	5	5	-
GN 151.1-48-49-A	470	(3250)	110	(1540)	330	(3250)	-	5	-
-48-49-B	370	(3300)	320	(2490)	380	(3600)	2	-	-
-48-49-C	310	(2880)	320	(2490)	300	(2960)	2	-	-
-65-65-A	1550	(7780)	760	(3820)	1150	(5780)	-	5	-
-65-65-B	1000	(6550)	720	(3980)	810	(5410)	3	-	-
-65-65-C	1010	(7010)	790	(3960)	840	(5680)	3	-	-
GN 151.2-48-49-C	310	(2880)	320	(2490)	300	(2960)	2	-	-
-64-65-C	720	(6270)	240	(4180)	520	(4760)	3	-	-
-98-98-C	1230	(10460)	510	(4100)	1110	(6730)	5	-	-
GN 151.3-40-40-SH	300	(1500)	200	(750)	300	(1500)	2	-	-
-40-40-EH	300	(1500)	200	(750)	300	(1500)	2	-	-
-49-49-SH	500	(3100)	300	(1300)	400	(2500)	2	-	-
-49-49-EH	500	(3100)	300	(1300)	400	(2500)	2	-	-
-65-65-SH	800	(4500)	500	(2200)	800	(4400)	2	-	-
-65-65-EH	800	(4500)	500	(2200)	800	(4400)	2	-	-
GN 151.4-64-65	490	(5790)	260	(3190)	519	(5280)	3	-	-
GN 154 -26-30-A	70	(490)	60	(500)	60	(690)	-	1	-
-26-30-B	40	(340)	30	(390)	60	(690)	-	1	1
-26-30-C	110	(720)	70	(670)	100	(830)	0,5	1	-
-26-30-D	40	(340)	30	(390)	70	(750)	-	-	1
-26-30-E	40	(340)	30	(390)	60	(690)	-	1	1
-26-30-F	50	(450)	30	(350)	60	(730)	0,5	-	1
-34-40-A	150	(1340)	100	(700)	160	(1710)	-	4	-
-34-40-B	140	(880)	50	(700)	110	(1230)	-	4	1,5
-34-40-C	150	(1220)	130	(1110)	120	(1620)	1	4	-
-34-40-D	140	(880)	50	(730)	110	(1230)	-	-	1,5
-34-40-E	140	(880)	50	(700)	110	(1230)	-	4	1,5
-34-40-F	140	(820)	100	(860)	150	(1480)	1	-	1,5
-41-48-A	260	(1700)	120	(1640)	260	(2440)	-	5	-
-41-48-B	240	(1700)	110	(1640)	260	(1770)	-	5	3
-41-48-C	240	(1890)	290	(1870)	330	(2530)	2	5	-
-41-48-D	240	(1840)	110	(1740)	290	(1770)	-	-	3
-41-48-E	240	(1700)	110	(1640)	260	(1770)	-	5	3
-41-48-F	120	(1200)	110	(970)	150	(2170)	2	-	3
-56-66-A	320	(2520)	220	(2250)	450	(4130)	-	5	-
-56-66-B	260	(1700)	220	(1580)	450	(3260)	-	5	5
-56-66-C	410	(2610)	310	(2830)	430	(3660)	5	5	-
-56-66-D	260	(1700)	240	(1580)	470	(3260)	-	-	5
-56-66-E	260	(1700)	220	(1580)	450	(3260)	-	5	5
-56-66-F	280	(1770)	180	(1610)	350	(3090)	5	-	5



Article No.	Radial load rating		Axial load rating		Max. tightening torque of the hinge attachment in Nm		
	L <sub>R0</sub> in N	L <sub>R90</sub> in N	L <sub>A</sub> in N		Bore	Thread	Bolt
GN 155 -45-30-A	140 (1040)	50 (310)	50 (660)		–	1	–
-45-30-B	120 (980)	20 (300)	50 (640)		0,5	–	–
-45-30-C	110 (1040)	60 (560)	40 (460)		–	–	1
-45-30-D	110 (1040)	50 (310)	40 (460)		–	1	1
-45-30-E	120 (980)	20 (300)	50 (640)		0,5	1	–
-45-30-F	110 (980)	20 (300)	40 (460)		0,5	–	1
-58-40-A	230 (1920)	60 (590)	90 (1110)		–	4	–
-58-40-B	370 (2460)	80 (1210)	150 (1580)		1	–	–
-58-40-C	300 (2440)	60 (590)	90 (1110)		–	–	2
-58-40-D	230 (1920)	60 (590)	90 (1110)		–	4	2
-58-40-E	230 (1920)	60 (590)	90 (1110)		1	4	–
-58-40-F	300 (2440)	60 (590)	90 (1110)		1	–	2
-70-48-A	440 (2890)	190 (1290)	160 (1260)		–	5	–
-70-48-B	410 (2850)	150 (1440)	300 (2160)		2	–	–
-70-48-C	310 (2870)	160 (1190)	190 (1900)		–	–	5
-70-48-D	310 (2870)	160 (1190)	160 (1260)		–	5	5
-70-48-E	410 (2850)	150 (1290)	160 (1260)		5	5	–
-70-48-F	310 (2850)	150 (1190)	190 (1900)		2	–	5
-97-66-A	500 (2480)	310 (2250)	530 (4160)		–	5	–
-97-66-B	690 (3450)	260 (2920)	440 (3160)		5	–	–
-97-66-C	700 (3490)	270 (1830)	240 (2670)		–	–	5
-97-66-D	500 (2480)	270 (1830)	240 (2670)		–	5	5
-97-66-E	500 (2480)	260 (2250)	440 (3160)		5	5	–
-97-66-F	690 (3450)	260 (1830)	240 (2670)		5	–	5
GN 157 -70-50-6,5	380 (3830)	190 (1950)	200 (2440)		3	–	–
-70-50-8,5	380 (3830)	190 (1950)	200 (2440)		3	–	–
-80-102-6,5	4500 (10000)	2000 (4000)	2000 (4000)		5	–	–
GN 158 -70-50-A	2220 (4450)	710 (2250)	730 (4170)		–	5	–
-70-50-B	1490 (2970)	460 (2120)	1740 (3470)		5	–	–
-70-50-C	2180 (4350)	510 (2220)	1420 (4410)		–	–	4
GN 159 -54-17,5-17,5	1850 (3710)	300 (1700)	440 (2570)		5	–	–
-64-17,5-22,5	1750 (3490)	590 (870)	320 (2280)		5	–	–
-69-17,5-25	1760 (3520)	190 (780)	240 (2150)		5	–	–
-84-17,5-32,5	1600 (3190)	180 (850)	280 (1510)		5	–	–
-74-22,5-22,5	1750 (3490)	220 (870)	320 (2280)		5	–	–
-79-22,5-25	1750 (3490)	390 (780)	240 (2150)		5	–	–
-94-22,5-32,5	1600 (3190)	180 (850)	280 (1510)		5	–	–
-84-25-25	1760 (3520)	190 (780)	240 (2150)		5	–	–
-99-25-32,5	1600 (3190)	180 (780)	240 (1510)		5	–	–
-114-32,5-32,5	1600 (3190)	180 (850)	280 (1510)		5	–	–
-80-102-8,5	4500 (10000)	2000 (4000)	2000 (4000)		5	–	–

Article No.	Radial load rating		Axial load rating		Max. tightening torque of the hinge attachment in Nm		
	L <sub>R0</sub> in N	L <sub>R90</sub> in N	L <sub>A</sub> in N		Bore	Thread	Bolt
GN 159.1-89-35-35	1850 (3710)	300 (1700)	440 (2570)		5	-	-
-109-40-40	1750 (3490)	220 (870)	320 (2280)		5	-	-
-99-40-40	1750 (3490)	220 (870)	320 (2280)		5	-	-
-119-45-45	1750 (3490)	220 (870)	320 (2280)		5	-	-
-104-42,5-42,5	1760 (3520)	190 (780)	240 (2150)		5	-	-
-124-47,5-47,5	1750 (3490)	190 (780)	240 (2150)		5	-	-
-134-50-50	1760 (3520)	190 (780)	240 (2150)		5	-	-
-119-50-50	1600 (3190)	180 (850)	280 (1510)		5	-	-
-139-55-55	1600 (3190)	180 (850)	280 (1510)		5	-	-
-149-57,5-57,5	1600 (3190)	180 (780)	240 (1510)		5	-	-
GN 160 -28-64-A	200	-	590		-	5	-
-28-64-B	200	-	590		-	-	5
-28-64-C	200	-	590		-	5	5
-28-64-D	200	-	590		-	5	5
GN 160.1-35-64	200	-	290		5	-	-
GN 222 -50-65-SH	2070 (5060)	1630 (3380)	1320 (4480)		4	-	-
-50-65-EH	1940 (4900)	970 (3140)	1520 (3840)		4	-	-
GN 233 -37-43	1400 (1800)	500 (1000)	700 (1100)		1	-	-
-57-64	2250 (3200)	1500 (2500)	1500 (2350)		3	-	-
GN 236 -75-60	2700	2130	1800		5	-	-
GN 237.1-30-30-A	1700	1000	1400		3	-	-
-30-30-B	1700	850	1300		3	-	-
-40-40-A	1900	1280	1900		3	-	-
-40-40-B	1600	1000	1900		5	-	-
-40-40-C	1900	1000	2000		-	-	5
-40-40-D	1900	1000	1900		3	-	5
-40-40-E	1600	1000	1900		5	-	5
-50-50-A	2400	1720	2630		5	-	-
-50-50-B	2410	1360	2860		5	-	-
-50-50-C	2560	2100	2340		-	-	5
-50-50-D	2400	1720	2340		5	-	5
-50-50-E	2410	1360	2340		5	-	5
GN 237.1-60-60-A	2960	3070	3320		5	-	-
-60-60-B	2810	2170	3440		5	-	-
-60-60-C	3940	2130	3000		-	-	5
-60-60-D	2960	2130	3000		5	-	5
-60-60-E	2810	2130	3000		5	-	5
GN 239.3-70-60-SH	3010	1310	2920		5	-	-
-70-60-CH	1200	1360	960		4	-	-
GN 239.4-70-53	2800	1300	2100		5	-	-
GN 239.6-60-110	2800	1300	2100		5	-	-
GN 239.7-60-70	7600	5800	4500		5	-	-
-60-110	7600	5800	4500		5	-	-
GN 337.1-60-60	1600	1250	2050		5	-	-

