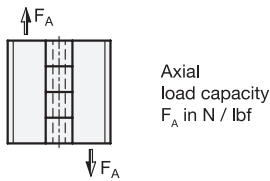
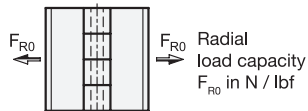


Load Capacity of Plastic Hinges

Sorted by Series Number



The values given in (...) are the breaking loads determined in test series. They are used to estimate the safety factor.

When mounting the various hinges, a maximum tightening torque must not be exceeded.

The details given on load capacity 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 use.

Part number	Radial load capacity				Axial load capacity		Max. tightening torque of the hinge attachment in Nm		
	F _{R0}		F _{R90}		F _A		Bore	Thread	Bolt
EN 122.1-45-50-SH	350 N 79 lbf	(1970 N) (443 lbf)	345 N 78 lbf	(620 N) (139 lbf)	300 N 67 lbf	(1220 N) (274 lbf)	1.5	-	-
-45-50-CH	350 N 79 lbf	(1970 N) (443 lbf)	345 N 78 lbf	(620 N) (139 lbf)	300 N 67 lbf	(1220 N) (274 lbf)	1.5	-	-
-45-50-EH	350 N 79 lbf	(1970 N) (443 lbf)	345 N 78 lbf	(620 N) (139 lbf)	300 N 67 lbf	(1220 N) (274 lbf)	1.5	-	-
EN 122.2-45-50-SH	350 N 79 lbf	(1970 N) (443 lbf)	345 N 78 lbf	(620 N) (139 lbf)	300 N 67 lbf	(1220 N) (274 lbf)	1.5	-	-
-45-50-CH	350 N 79 lbf	(1970 N) (443 lbf)	345 N 78 lbf	(620 N) (139 lbf)	300 N 67 lbf	(1220 N) (274 lbf)	1.5	-	-
-45-50-EH	350 N 79 lbf	(1970 N) (443 lbf)	345 N 78 lbf	(620 N) (139 lbf)	300 N 67 lbf	(1220 N) (274 lbf)	1.5	-	-
EN 151 -39-40-A	240 N 54 lbf	(2220 N) (499 lbf)	100 N 23 lbf	(730 N) (164 lbf)	200 N 45 lbf	(2050 N) (461 lbf)	-	5	-
-39-40-B	230 N 52 lbf	(1760 N) (396 lbf)	180 N 41 lbf	(1330 N) (299 lbf)	137 N 31 lbf	(1800 N) (405 lbf)	1	-	-
-39-40-C	290 N 65 lbf	(2030 N) (456 lbf)	280 N 63 lbf	(1520 N) (342 lbf)	130 N 29 lbf	(2080 N) (468 lbf)	1	-	-
-48-49-A	440 N 99 lbf	(3070 N) (690 lbf)	170 N 38 lbf	(1470 N) (330 lbf)	400 N 90 lbf	(3770 N) (848 lbf)	-	5	-
-48-49-B	310 N 70 lbf	(2530 N) (569 lbf)	250 N 56 lbf	(1620 N) (364 lbf)	360 N 81 lbf	(3080 N) (692 lbf)	2	-	-
-48-49-C	310 N 70 lbf	(2880 N) (647 lbf)	320 N 72 lbf	(2490 N) (560 lbf)	300 N 67 lbf	(2960 N) (665 lbf)	2	-	-
-48-49-D	360 N 81 lbf	(1970 N) (443 lbf)	200 N 45 lbf	(1680 N) (378 lbf)	370 N 83 lbf	(3070 N) (690 lbf)	-	-	5
-48-49-E	320 N 72 lbf	(1970 N) (443 lbf)	200 N 45 lbf	(1620 N) (364 lbf)	360 N 81 lbf	(3070 N) (690 lbf)	2	-	5
-48-49-F	280 N 63 lbf	(1970 N) (443 lbf)	200 N 45 lbf	(1680 N) (378 lbf)	370 N 83 lbf	(2960 N) (665 lbf)	2	-	5
-48-49-G	360 N 81 lbf	(1970 N) (443 lbf)	200 N 45 lbf	(1470 N) (330 lbf)	370 N 83 lbf	(3080 N) (692 lbf)	-	5	5
-48-49-H	320 N 72 lbf	(2530 N) (569 lbf)	170 N 38 lbf	(1470 N) (330 lbf)	360 N 81 lbf	(3080 N) (692 lbf)	2	5	-
-48-49-I	280 N 63 lbf	(2880 N) (647 lbf)	170 N 38 lbf	(1470 N) (330 lbf)	400 N 90 lbf	(2960 N) (665 lbf)	2	5	-
-64-65-A	690 N 155 lbf	(5670 N) (1275 lbf)	220 N 50 lbf	(2280 N) (513 lbf)	640 N 144 lbf	(4570 N) (1027 lbf)	-	5	-
-64-65-B	490 N 110 lbf	(5790 N) (1302 lbf)	260 N 59 lbf	(3190 N) (717 lbf)	510 N 115 lbf	(5280 N) (1187 lbf)	5	-	-

Part number	Radial load capacity				Axial load capacity		Max. tightening torque of the hinge attachment in Nm		
	F _{R0}		F _{R90}		F _A		Bore	Thread	Bolt
EN 151 -64-65-C	720 N <i>162 lbf</i>	(6270 N) <i>(1410 lbf)</i>	240 N <i>54 lbf</i>	(4180 N) <i>(940 lbf)</i>	520 N <i>117 lbf</i>	(4760 N) <i>(1070 lbf)</i>	3	-	-
-64-65-D	460 N <i>103 lbf</i>	(6620 N) <i>(1488 lbf)</i>	220 N <i>50 lbf</i>	(3190 N) <i>(717 lbf)</i>	510 N <i>115 lbf</i>	(5890 N) <i>(1324 lbf)</i>	-	-	5
-64-65-E	460 N <i>103 lbf</i>	(5790 N) <i>(1302 lbf)</i>	220 N <i>50 lbf</i>	(3190 N) <i>(717 lbf)</i>	510 N <i>115 lbf</i>	(5280 N) <i>(1187 lbf)</i>	3	-	5
-64-65-F	460 N <i>103 lbf</i>	(6270 N) <i>(1410 lbf)</i>	220 N <i>50 lbf</i>	(3190 N) <i>(717 lbf)</i>	510 N <i>115 lbf</i>	(4760 N) <i>(1070 lbf)</i>	5	-	5
-64-65-G	460 N <i>103 lbf</i>	(5670 N) <i>(1275 lbf)</i>	220 N <i>50 lbf</i>	(2280 N) <i>(513 lbf)</i>	510 N <i>115 lbf</i>	(4570 N) <i>(1027 lbf)</i>	-	5	5
-64-65-H	460 N <i>103 lbf</i>	(5670 N) <i>(1275 lbf)</i>	220 N <i>50 lbf</i>	(2280 N) <i>(513 lbf)</i>	510 N <i>115 lbf</i>	(4570 N) <i>(1027 lbf)</i>	5	5	-
-64-65-I	690 N <i>155 lbf</i>	(5670 N) <i>(1275 lbf)</i>	220 N <i>50 lbf</i>	(2280 N) <i>(513 lbf)</i>	640 N <i>144 lbf</i>	(4570 N) <i>(1027 lbf)</i>	3	5	-
-98-98-A	2120 N <i>477 lbf</i>	(17940 N) <i>(4033 lbf)</i>	590 N <i>133 lbf</i>	(5210 N) <i>(1171 lbf)</i>	970 N <i>218 lbf</i>	(7660 N) <i>(1722 lbf)</i>	-	5	-
-98-98-B	2060 N <i>463 lbf</i>	(13670 N) <i>(3073 lbf)</i>	540 N <i>121 lbf</i>	(4760 N) <i>(1070 lbf)</i>	1050 N <i>236 lbf</i>	(4860 N) <i>(1093 lbf)</i>	5	-	-
-98-98-C	1230 N <i>277 lbf</i>	(10460 N) <i>(2352 lbf)</i>	510 N <i>115 lbf</i>	(4100 N) <i>(922 lbf)</i>	1110 N <i>250 lbf</i>	(6730 N) <i>(1513 lbf)</i>	5	-	-
-98-98-D	1730 N <i>389 lbf</i>	(16190 N) <i>(3640 lbf)</i>	460 N <i>103 lbf</i>	(3690 N) <i>(830 lbf)</i>	890 N <i>200 lbf</i>	5950 N) <i>(1338 lbf)</i>	-	-	5
-98-98-E	1730 N <i>389 lbf</i>	(13670 N) <i>(3073 lbf)</i>	460 N <i>103 lbf</i>	(3690 N) <i>(830 lbf)</i>	890 N <i>200 lbf</i>	4860 N) <i>(1093 lbf)</i>	5	-	5
-98-98-F	1230 N <i>277 lbf</i>	(10460 N) <i>(2352 lbf)</i>	460 N <i>103 lbf</i>	(3690 N) <i>(830 lbf)</i>	890 N <i>200 lbf</i>	5950 N) <i>(1338 lbf)</i>	5	-	5
-98-98-G	1730 N <i>389 lbf</i>	(16190 N) <i>(3640 lbf)</i>	460 N <i>103 lbf</i>	(3690 N) <i>(830 lbf)</i>	890 N <i>200 lbf</i>	5950 N) <i>(1338 lbf)</i>	-	5	5
-98-98-H	2060 N <i>463 lbf</i>	(13670 N) <i>(3073 lbf)</i>	540 N <i>121 lbf</i>	(4760 N) <i>(1070 lbf)</i>	970 N <i>218 lbf</i>	4860 N) <i>(1093 lbf)</i>	5	5	-
-98-98-I	1230 N <i>277 lbf</i>	(10460 N) <i>(2352 lbf)</i>	510 N <i>115 lbf</i>	(4110 N) <i>(924 lbf)</i>	970 N <i>218 lbf</i>	6730 N) <i>(1513 lbf)</i>	5	5	-
EN 151.1-48-49-A	470 N <i>106 lbf</i>	(3250 N) <i>(731 lbf)</i>	110 N <i>25 lbf</i>	(1540 N) <i>(346 lbf)</i>	330 N <i>74 lbf</i>	3250 N) <i>(731 lbf)</i>	-	5	-
-48-49-B	370 N <i>83 lbf</i>	(330 N) <i>(74.19 lbf)</i>	320 N <i>72 lbf</i>	(2490 N) <i>(560 lbf)</i>	380 N <i>85 lbf</i>	3600 N) <i>(809 lbf)</i>	2	-	-
-48-49-C	310 N <i>70 lbf</i>	(2880 N) <i>(647 lbf)</i>	320 N <i>72 lbf</i>	(2490 N) <i>(560 lbf)</i>	300 N <i>67 lbf</i>	2960 N) <i>(665 lbf)</i>	2	-	-
-65-65-A	1550 N <i>348 lbf</i>	(7780 N) <i>(1749 lbf)</i>	760 N <i>171 lbf</i>	(3820 N) <i>(859 lbf)</i>	1150 N <i>259 lbf</i>	5780 N) <i>(1299 lbf)</i>	-	5	-
-65-65-B	1000 N <i>225 lbf</i>	(6550 N) <i>(1472 lbf)</i>	720 N <i>162 lbf</i>	(3980 N) <i>(895 lbf)</i>	810 N <i>182 lbf</i>	5410 N) <i>(1216 lbf)</i>	3	-	-
-65-65-C	1010 N <i>227 lbf</i>	(7010 N) <i>(1576 lbf)</i>	790 N <i>178 lbf</i>	(3960 N) <i>(890 lbf)</i>	840 N <i>189 lbf</i>	5680 N) <i>(1277 lbf)</i>	3	-	-
EN 151.2-48-49-C	310 N <i>70 lbf</i>	(2880 N) <i>(647 lbf)</i>	320 N <i>72 lbf</i>	(2490 N) <i>(560 lbf)</i>	300 N <i>67 lbf</i>	2960 N) <i>(665 lbf)</i>	2	-	-
-64-65-C	720 N <i>162 lbf</i>	(6270 N) <i>(1410 lbf)</i>	240 N <i>54 lbf</i>	(4180 N) <i>(940 lbf)</i>	520 N <i>117 lbf</i>	4760 N) <i>(1070 lbf)</i>	3	-	-
-98-98-C	1230 N <i>277 lbf</i>	(10460 N) <i>(2352 lbf)</i>	510 N <i>115 lbf</i>	(4100 N) <i>(922 lbf)</i>	1110 N <i>250 lbf</i>	6730 N) <i>(1513 lbf)</i>	5	-	-
EN 151.3-40-40-SH	300 N <i>67 lbf</i>	(1500 N) <i>(337 lbf)</i>	200 N <i>45 lbf</i>	(750 N) <i>(169 lbf)</i>	300 N <i>67 lbf</i>	1500 N) <i>(337 lbf)</i>	2	-	-
-40-40-EH	300 N <i>67 lbf</i>	(1500 N) <i>(337 lbf)</i>	200 N <i>45 lbf</i>	(750 N) <i>(169 lbf)</i>	300 N <i>67 lbf</i>	1500 N) <i>(337 lbf)</i>	2	-	-
-49-49-SH	500 N <i>112 lbf</i>	(3100 N) <i>(697 lbf)</i>	300 N <i>67 lbf</i>	(1300 N) <i>(292 lbf)</i>	400 N <i>90 lbf</i>	2500 N) <i>(562 lbf)</i>	2	-	-
-49-49-EH	500 N <i>112 lbf</i>	(3100 N) <i>(697 lbf)</i>	300 N <i>67 lbf</i>	(1300 N) <i>(292 lbf)</i>	400 N <i>90 lbf</i>	2500 N) <i>(562 lbf)</i>	2	-	-
-65-65-SH	800 N <i>180 lbf</i>	(4500 N) <i>(1012 lbf)</i>	500 N <i>112 lbf</i>	(2200 N) <i>(495 lbf)</i>	800 N <i>180 lbf</i>	4400 N) <i>(989 lbf)</i>	2	-	-



Part number	Radial load capacity				Axial load capacity		Max. tightening torque of the hinge attachment in Nm		
	F _{R0}		F _{R90}		F _A		Bore	Thread	Bolt
EN 151.3-65-65-EH	800 N <i>180 lbf</i>	(4500 N) <i>(1012 lbf)</i>	500 N <i>112 lbf</i>	(2200 N) <i>(495 lbf)</i>	800 N <i>180 lbf</i>	(4400 N) <i>(989 lbf)</i>	2	-	-
EN 151.4-64-65	490 N <i>110 lbf</i>	(5490 N) <i>(1234 lbf)</i>	260 N <i>59 lbf</i>	(3190 N) <i>(717 lbf)</i>	519 N <i>117 lbf</i>	(5280 N) <i>(1187 lbf)</i>	3	-	-
EN 151.5-40-40-4.5-SH	300 N <i>67 lbf</i>	(1500 N) <i>(337 lbf)</i>	200 N <i>45 lbf</i>	(750 N) <i>(169 lbf)</i>	300 N <i>67 lbf</i>	(1500 N) <i>(337 lbf)</i>	2	-	-
-40-40-4.5-EH	300 N <i>67 lbf</i>	(1500 N) <i>(337 lbf)</i>	200 N <i>45 lbf</i>	(750 N) <i>(169 lbf)</i>	300 N <i>67 lbf</i>	(1500 N) <i>(337 lbf)</i>	2	-	-
-49-49-5.5-SH	400 N <i>90 lbf</i>	(3000 N) <i>(674 lbf)</i>	300 N <i>67 lbf</i>	(1600 N) <i>(360 lbf)</i>	500 N <i>112 lbf</i>	(2900 N) <i>(652 lbf)</i>	2	-	-
-49-49-5.5-EH	400 N <i>90 lbf</i>	(3000 N) <i>(674 lbf)</i>	300 N <i>67 lbf</i>	(1600 N) <i>(360 lbf)</i>	500 N <i>112 lbf</i>	(2900 N) <i>(652 lbf)</i>	2	-	-
-49-49-6.5-EH	400 N <i>90 lbf</i>	(3000 N) <i>(674 lbf)</i>	300 N <i>67 lbf</i>	(1600 N) <i>(360 lbf)</i>	500 N <i>112 lbf</i>	(2900 N) <i>(652 lbf)</i>	2	-	-
-65-65-6.5-SH	800 N <i>180 lbf</i>	(4400 N) <i>(989 lbf)</i>	500 N <i>112 lbf</i>	(2200 N) <i>(495 lbf)</i>	800 N <i>180 lbf</i>	(4500 N) <i>(1012 lbf)</i>	2	-	-
-65-65-6.5-EH	800 N <i>180 lbf</i>	(4400 N) <i>(989 lbf)</i>	500 N <i>112 lbf</i>	(2200 N) <i>(495 lbf)</i>	800 N <i>180 lbf</i>	(4500 N) <i>(1012 lbf)</i>	2	-	-
EN 154 -26-30-A	70 N <i>16 lbf</i>	(490 N) <i>(110 lbf)</i>	60 N <i>14 lbf</i>	(500 N) <i>(112 lbf)</i>	60 N <i>14 lbf</i>	(690 N) <i>(155 lbf)</i>	-	1	-
-26-30-B	40 N <i>9 lbf</i>	(340 N) <i>(76 lbf)</i>	30 N <i>7 lbf</i>	(390 N) <i>(88 lbf)</i>	60 N <i>14 lbf</i>	(690 N) <i>(155 lbf)</i>	-	1	1
-26-30-C	110 N <i>25 lbf</i>	(720 N) <i>(162 lbf)</i>	70 N <i>16 lbf</i>	(670 N) <i>(151 lbf)</i>	100 N <i>23 lbf</i>	(830 N) <i>(187 lbf)</i>	0.5	1	-
-26-30-D	40 N <i>9 lbf</i>	(340 N) <i>(76 lbf)</i>	30 N <i>7 lbf</i>	(390 N) <i>(88 lbf)</i>	70 N <i>16 lbf</i>	(750 N) <i>(169 lbf)</i>	-	-	1
-26-30-E	40 N <i>9 lbf</i>	(340 N) <i>(76 lbf)</i>	30 N <i>7 lbf</i>	(390 N) <i>(88 lbf)</i>	60 N <i>14 lbf</i>	(690 N) <i>(155 lbf)</i>	-	1	1
-26-30-F	50 N <i>11 lbf</i>	(450 N) <i>(101 lbf)</i>	30 N <i>7 lbf</i>	(350 N) <i>(79 lbf)</i>	60 N <i>14 lbf</i>	(730 N) <i>(164 lbf)</i>	0.5	-	1
-34-40-A	150 N <i>34 lbf</i>	(1340 N) <i>(301 lbf)</i>	100 N <i>23 lbf</i>	(700 N) <i>(157 lbf)</i>	160 N <i>36 lbf</i>	(1710 N) <i>(384 lbf)</i>	-	4	-
-34-40-B	140 N <i>32 lbf</i>	(880 N) <i>(198 lbf)</i>	50 N <i>11 lbf</i>	(700 N) <i>(157 lbf)</i>	110 N <i>25 lbf</i>	(1230 N) <i>(277 lbf)</i>	-	4	1.5
-34-40-C	150 N <i>34 lbf</i>	(1220 N) <i>(274 lbf)</i>	130 N <i>29 lbf</i>	(1110 N) <i>(250 lbf)</i>	120 N <i>27 lbf</i>	(1620 N) <i>(364 lbf)</i>	1	4	-
-34-40-D	40 N <i>9 lbf</i>	(880 N) <i>(198 lbf)</i>	50 N <i>11 lbf</i>	(730 N) <i>(164 lbf)</i>	110 N <i>25 lbf</i>	(1230 N) <i>(277 lbf)</i>	-	-	1.5
-34-40-E	140 N <i>32 lbf</i>	(880 N) <i>(198 lbf)</i>	50 N <i>11 lbf</i>	(700 N) <i>(157 lbf)</i>	110 N <i>25 lbf</i>	(1230 N) <i>(277 lbf)</i>	-	4	1.5
-34-40-F	140 N <i>32 lbf</i>	(820 N) <i>(184 lbf)</i>	100 N <i>23 lbf</i>	(860 N) <i>(193 lbf)</i>	150 N <i>34 lbf</i>	(1480 N) <i>(333 lbf)</i>	1	-	1.5
-41-48-A	260 N <i>59 lbf</i>	(1700 N) <i>(382 lbf)</i>	120 N <i>27 lbf</i>	(1640 N) <i>(369 lbf)</i>	260 N <i>59 lbf</i>	(2440 N) <i>(549 lbf)</i>	-	5	-
-41-48-B	240 N <i>54 lbf</i>	(1700 N) <i>(382 lbf)</i>	110 N <i>25 lbf</i>	(1640 N) <i>(369 lbf)</i>	260 N <i>59 lbf</i>	(1770 N) <i>(398 lbf)</i>	-	5	3
-41-48-C	240 N <i>54 lbf</i>	(1890 N) <i>(425 lbf)</i>	290 N <i>65 lbf</i>	(1870 N) <i>(420 lbf)</i>	330 N <i>74 lbf</i>	(2530 N) <i>(569 lbf)</i>	2	5	-
-41-48-D	240 N <i>54 lbf</i>	(1840 N) <i>(414 lbf)</i>	110 N <i>25 lbf</i>	(1740 N) <i>(391 lbf)</i>	290 N <i>65 lbf</i>	(1770 N) <i>(398 lbf)</i>	-	-	3
-41-48-E	240 N <i>54 lbf</i>	(1700 N) <i>(382 lbf)</i>	110 N <i>25 lbf</i>	(1640 N) <i>(369 lbf)</i>	260 N <i>59 lbf</i>	(1770 N) <i>(398 lbf)</i>	-	5	3
-41-48-F	120 N <i>27 lbf</i>	(1200 N) <i>(270 lbf)</i>	110 N <i>25 lbf</i>	(970 N) <i>(218 lbf)</i>	150 N <i>34 lbf</i>	(2170 N) <i>(488 lbf)</i>	2	-	3
-56-66-A	320 N <i>72 lbf</i>	(2520 N) <i>(567 lbf)</i>	220 N <i>50 lbf</i>	(2250 N) <i>(506 lbf)</i>	450 N <i>101 lbf</i>	(4130 N) <i>(928 lbf)</i>	-	5	-
-56-66-B	260 N <i>59 lbf</i>	(1700 N) <i>(382 lbf)</i>	220 N <i>50 lbf</i>	(1580 N) <i>(355 lbf)</i>	450 N <i>101 lbf</i>	(3260 N) <i>(733 lbf)</i>	-	5	5
-56-66-C	410 N <i>92 lbf</i>	(2610 N) <i>(587 lbf)</i>	310 N <i>70 lbf</i>	(2830 N) <i>(636 lbf)</i>	430 N <i>97 lbf</i>	(3660 N) <i>(823 lbf)</i>	5	5	-

Part number	Radial load capacity				Axial load capacity		Max. tightening torque of the hinge attachment in Nm		
	F _{R0}		F _{R90}		F _A		Bore	Thread	Bolt
EN 154 -56-66-D	260 N 59 lbf	(1700 N) (382 lbf)	240 N 54 lbf	(1580 N) (355 lbf)	470 N 106 lbf	(3260 N) (733 lbf)	-	-	5
-56-66-E	260 N 59 lbf	(1700 N) (382 lbf)	220 N 50 lbf	(1580 N) (355 lbf)	450 N 101 lbf	(3260 N) (733 lbf)	-	5	5
-56-66-F	280 N 63 lbf	(1770 N) (398 lbf)	180 N 41 lbf	(1610 N) (362 lbf)	350 N 79 lbf	(3090 N) (695 lbf)	5	-	5
EN 155 -45-30-A	140 N 32 lbf	(1040 N) (234 lbf)	50 N 11 lbf	(310 N) (70 lbf)	50 N 11 lbf	(660 N) (148 lbf)	-	1	-
-45-30-B	120 N 27 lbf	(980 N) (220 lbf)	20 N 5 lbf	(300 N) (67 lbf)	50 N 11 lbf	(640 N) (144 lbf)	0.5	-	-
-45-30-C	110 N 25 lbf	(1040 N) (234 lbf)	60 N 14 lbf	(560 N) (126 lbf)	40 N 9 lbf	(460 N) (103 lbf)	-	-	1
-45-30-D	110 N 25 lbf	(1040 N) (234 lbf)	50 N 11 lbf	(310 N) (70 lbf)	40 N 9 lbf	(460 N) (103 lbf)	-	1	1
-45-30-E	120 N 27 lbf	(980 N) (220 lbf)	20 N 5 lbf	(300 N) (67 lbf)	50 N 11 lbf	(640 N) (144 lbf)	0.5	1	-
-45-30-F	110 N 25 lbf	(980 N) (220 lbf)	20 N 5 lbf	(300 N) (67 lbf)	40 N 9 lbf	(460 N) (103 lbf)	0.5	-	1
-58-40-A	230 N 52 lbf	(1920 N) (432 lbf)	60 N 14 lbf	(590 N) (133 lbf)	90 N 20 lbf	(1110 N) (250 lbf)	-	4	-
-58-40-B	370 N 83 lbf	(2460 N) (553 lbf)	80 N 18 lbf	(1210 N) (272 lbf)	150 N 34 lbf	(1580 N) (355 lbf)	1	-	-
-58-40-C	300 N 67 lbf	(2440 N) (549 lbf)	60 N 14 lbf	(590 N) (133 lbf)	90 N 20 lbf	(1110 N) (250 lbf)	-	-	2
-58-40-D	230 N 52 lbf	(1920 N) (432 lbf)	60 N 14 lbf	(590 N) (133 lbf)	90 N 20 lbf	(1110 N) (250 lbf)	-	4	2
-58-40-E	230 N 52 lbf	(1920 N) (432 lbf)	60 N 14 lbf	(590 N) (133 lbf)	90 N 20 lbf	(1110 N) (250 lbf)	1	4	-
-58-40-F	300 N 67 lbf	(2440 N) (549 lbf)	60 N 14 lbf	(590 N) (133 lbf)	90 N 20 lbf	(1110 N) (250 lbf)	1	-	2
-70-48-A	440 N 99 lbf	(2890 N) (650 lbf)	190 N 43 lbf	(1290 N) (290 lbf)	160 N 36 lbf	(1260 N) (283 lbf)	-	5	-
-70-48-B	410 N 92 lbf	(2850 N) (641 lbf)	150 N 34 lbf	(1440 N) (324 lbf)	300 N 67 lbf	(2160 N) (486 lbf)	2	-	-
-70-48-C	310 N 70 lbf	(2870 N) (645 lbf)	160 N 36 lbf	(1190 N) (268 lbf)	190 N 43 lbf	(1900 N) (427 lbf)	-	-	5
-70-48-D	310 N 70 lbf	(2870 N) (645 lbf)	160 N 36 lbf	(1190 N) (268 lbf)	160 N 36 lbf	(1260 N) (283 lbf)	-	5	5
-70-48-E	410 N 92 lbf	(2850 N) (641 lbf)	150 N 34 lbf	(1290 N) (290 lbf)	160 N 36 lbf	(1260 N) (283 lbf)	5	5	-
-70-48-F	310 N 70 lbf	(2850 N) (641 lbf)	150 N 34 lbf	(1190 N) (268 lbf)	190 N 43 lbf	(1900 N) (427 lbf)	2	-	5
-97-66-A	500 N 112 lbf	(2480 N) (558 lbf)	310 N 70 lbf	(2250 N) (506 lbf)	530 N 119 lbf	(4160 N) (935 lbf)	-	5	-
-97-66-B	690 N 155 lbf	(3450 N) (776 lbf)	260 N 59 lbf	(2920 N) (656 lbf)	440 N 99 lbf	(3160 N) (710 lbf)	5	-	-
-97-66-C	700 N 157 lbf	(3490 N) (785 lbf)	270 N 61 lbf	(1830 N) (411 lbf)	240 N 54 lbf	(2670 N) (600 lbf)	-	-	5
-97-66-D	500 N 112 lbf	(2480 N) (558 lbf)	270 N 61 lbf	(1830 N) (411 lbf)	240 N 54 lbf	(2670 N) (600 lbf)	-	5	5
-97-66-E	500 N 112 lbf	(2480 N) (558 lbf)	260 N 59 lbf	(2250 N) (506 lbf)	440 N 99 lbf	(3160 N) (710 lbf)	5	5	-
-97-66-F	690 N 155 lbf	(3450 N) (776 lbf)	260 N 59 lbf	(1830 N) (411 lbf)	240 N 54 lbf	(2670 N) (600 lbf)	5	-	5
EN 157 -70-50-6.5	380 N 85 lbf	(3830 N) (861 lbf)	190 N 43 lbf	(1950 N) (438 lbf)	200 N 45 lbf	(2440 N) (549 lbf)	3	-	-
-70-50-8.5	380 N 85 lbf	(3830 N) (861 lbf)	190 N 43 lbf	(1950 N) (438 lbf)	200 N 45 lbf	(2440 N) (549 lbf)	3	-	-
-80-102-6.5	4500 N 1012 lbf	(10000 N) (2248 lbf)	2000 N 450 lbf	(4000 N) (899 lbf)	2000 N 450 lbf	(4000 N) (899 lbf)	5	-	-



Part number	Radial load capacity				Axial load capacity		Max. tightening torque of the hinge attachment in Nm		
	F _{R0}		F _{R90}		F _A		Bore	Thread	Bolt
EN 158 -70-50-A	2220 N <i>499 lbf</i>	(4450 N) <i>(1000 lbf)</i>	710 N <i>160 lbf</i>	(2250 N) <i>(506 lbf)</i>	730 N <i>164 lbf</i>	(4170 N) <i>(937 lbf)</i>	-	5	-
-70-50-B	1490 N <i>335 lbf</i>	(2970 N) <i>(668 lbf)</i>	460 N <i>103 lbf</i>	(2120 N) <i>(477 lbf)</i>	1740 N <i>391 lbf</i>	(3470 N) <i>(780 lbf)</i>	5	-	-
-70-50-C	2180 N <i>490 lbf</i>	(4350 N) <i>(978 lbf)</i>	510 N <i>115 lbf</i>	(2220 N) <i>(499 lbf)</i>	1420 N <i>319 lbf</i>	(4410 N) <i>(991 lbf)</i>	-	-	4
EN 159 -54-17.5-17.5	1850 N <i>416 lbf</i>	(3710 N) <i>(834 lbf)</i>	300 N <i>67 lbf</i>	(1700 N) <i>(382 lbf)</i>	440 N <i>99 lbf</i>	(2570 N) <i>(578 lbf)</i>	5	-	-
-64-17.5-22.5	1750 N <i>393 lbf</i>	(3490 N) <i>(785 lbf)</i>	590 N <i>133 lbf</i>	(870 N) <i>(196 lbf)</i>	320 N <i>72 lbf</i>	(2280 N) <i>(513 lbf)</i>	5	-	-
-69-17.5-25	1760 N <i>396 lbf</i>	(3520 N) <i>(791 lbf)</i>	190 N <i>43 lbf</i>	(780 N) <i>(175 lbf)</i>	240 N <i>54 lbf</i>	(2150 N) <i>(483 lbf)</i>	5	-	-
-84-17.5-32.5	1600 N <i>360 lbf</i>	(3190 N) <i>(717 lbf)</i>	180 N <i>41 lbf</i>	(850 N) <i>(191 lbf)</i>	280 N <i>63 lbf</i>	(1510 N) <i>(339 lbf)</i>	5	-	-
-74-22.5-22.5	1750 N <i>393 lbf</i>	(3490 N) <i>(785 lbf)</i>	220 N <i>50 lbf</i>	(870 N) <i>(196 lbf)</i>	320 N <i>72 lbf</i>	(2280 N) <i>(513 lbf)</i>	5	-	-
-79-22.5-25	1750 N <i>393 lbf</i>	(3490 N) <i>(785 lbf)</i>	390 N <i>88 lbf</i>	(780 N) <i>(175 lbf)</i>	240 N <i>54 lbf</i>	(2150 N) <i>(483 lbf)</i>	5	-	-
-94-22.5-32.5	1600 N <i>360 lbf</i>	(3190 N) <i>(717 lbf)</i>	180 N <i>41 lbf</i>	(850 N) <i>(191 lbf)</i>	280 N <i>63 lbf</i>	(1510 N) <i>(339 lbf)</i>	5	-	-
-84-25-25	1760 N <i>396 lbf</i>	(3520 N) <i>(791 lbf)</i>	190 N <i>43 lbf</i>	(780 N) <i>(175 lbf)</i>	240 N <i>54 lbf</i>	(2150 N) <i>(483 lbf)</i>	5	-	-
-99-25-32.5	1600 N <i>360 lbf</i>	(3190 N) <i>(717 lbf)</i>	180 N <i>41 lbf</i>	(850 N) <i>(191 lbf)</i>	240 N <i>54 lbf</i>	(1510 N) <i>(339 lbf)</i>	5	-	-
-114-32.5-32.5	1600 N <i>360 lbf</i>	(3190 N) <i>(717 lbf)</i>	180 N <i>41 lbf</i>	(850 N) <i>(191 lbf)</i>	280 N <i>63 lbf</i>	(1510 N) <i>(339 lbf)</i>	5	-	-
-80-102-8.5	4500 N <i>1012 lbf</i>	(10000 N) <i>(2248 lbf)</i>	2000 N <i>450 lbf</i>	(4000 N) <i>(899 lbf)</i>	2000 N <i>450 lbf</i>	(4000 N) <i>(899 lbf)</i>	5	-	-
EN 159.1-89-35-35	1850 N <i>416 lbf</i>	(3710 N) <i>(834 lbf)</i>	300 N <i>67 lbf</i>	(1700 N) <i>(382 lbf)</i>	440 N <i>99 lbf</i>	(2570 N) <i>(578 lbf)</i>	5	-	-
-109-40-40	1750 N <i>393 lbf</i>	(3490 N) <i>(785 lbf)</i>	220 N <i>50 lbf</i>	(870 N) <i>(196 lbf)</i>	320 N <i>72 lbf</i>	(2280 N) <i>(513 lbf)</i>	5	-	-
-99-40-40	1750 N <i>393 lbf</i>	(3490 N) <i>(785 lbf)</i>	220 N <i>50 lbf</i>	(870 N) <i>(196 lbf)</i>	320 N <i>72 lbf</i>	(2280 N) <i>(513 lbf)</i>	5	-	-
-119-45-45	1750 N <i>393 lbf</i>	(3490 N) <i>(785 lbf)</i>	220 N <i>50 lbf</i>	(870 N) <i>(196 lbf)</i>	320 N <i>72 lbf</i>	(2280 N) <i>(513 lbf)</i>	5	-	-
-104-42.5-42.5	1760 N <i>396 lbf</i>	(3520 N) <i>(791 lbf)</i>	190 N <i>43 lbf</i>	(780 N) <i>(175 lbf)</i>	240 N <i>54 lbf</i>	(2150 N) <i>(483 lbf)</i>	5	-	-
-124-47.5-47.5	1750 N <i>393 lbf</i>	(3490 N) <i>(785 lbf)</i>	190 N <i>43 lbf</i>	(780 N) <i>(175 lbf)</i>	240 N <i>54 lbf</i>	(2150 N) <i>(483 lbf)</i>	5	-	-
-134-50-50	1760 N <i>396 lbf</i>	(3520 N) <i>(791 lbf)</i>	190 N <i>43 lbf</i>	(780 N) <i>(175 lbf)</i>	240 N <i>54 lbf</i>	(2150 N) <i>(483 lbf)</i>	5	-	-
-119-50-50	1600 N <i>360 lbf</i>	(3190 N) <i>(717 lbf)</i>	180 N <i>41 lbf</i>	(850 N) <i>(191 lbf)</i>	280 N <i>63 lbf</i>	(1510 N) <i>(339 lbf)</i>	5	-	-
-139-55-55	1600 N <i>360 lbf</i>	(3190 N) <i>(717 lbf)</i>	180 N <i>41 lbf</i>	(850 N) <i>(191 lbf)</i>	280 N <i>63 lbf</i>	(1510 N) <i>(339 lbf)</i>	5	-	-
-149-57.5-57.5	1600 N <i>360 lbf</i>	(3190 N) <i>(717 lbf)</i>	180 N <i>41 lbf</i>	(780 N) <i>(175 lbf)</i>	240 N <i>54 lbf</i>	(1510 N) <i>(339 lbf)</i>	5	-	-
EN 160 -28-64-A	200 N <i>45 lbf</i>		-		590 N <i>133 lbf</i>		-	5	-
-28-64-B	200 N <i>45 lbf</i>		-		590 N <i>133 lbf</i>		-	-	5
-28-64-C	200 N <i>45 lbf</i>		-		590 N <i>133 lbf</i>		-	5	5
-28-64-D	200 N <i>45 lbf</i>		-		590 N <i>133 lbf</i>		-	5	5
EN 160.1-35-64	200 N <i>45 lbf</i>		-		290 N <i>65 lbf</i>		5	-	-
EN 222 -50-65-SH	2070 N <i>465 lbf</i>	(5060 N) <i>(1138 lbf)</i>	1630 N <i>366 lbf</i>	(3380 N) <i>(760 lbf)</i>	1320 N <i>297 lbf</i>	(4480 N) <i>(1007 lbf)</i>	4	-	-

Part number	Radial load capacity				Axial load capacity		Max. tightening torque of the hinge attachment in Nm		
	F _{R0}		F _{R90}		F _A		Bore	Thread	Bolt
EN 222 -50-65-EH	1940 N <i>436 lbf</i>	(4900 N) <i>(1102 lbf)</i>	970 N <i>218 lbf</i>	(3140 N) <i>(706 lbf)</i>	1520 N <i>342 lbf</i>	(3840 N) <i>(863 lbf)</i>	4	-	-
EN 233 -37-43	1400 N <i>315 lbf</i>	(1800 N) <i>(405 lbf)</i>	500 N <i>112 lbf</i>	(1000 N) <i>(225 lbf)</i>	700 N <i>157 lbf</i>	(1100 N) <i>(247 lbf)</i>	1	-	-
-57-64	2250 N <i>506 lbf</i>	(3200 N) <i>(719 lbf)</i>	1500 N <i>337 lbf</i>	(2500 N) <i>(562 lbf)</i>	1500 N <i>337 lbf</i>	(2350 N) <i>(528 lbf)</i>	3	-	-
EN 233.3-55-67-O	3500 N <i>787 lbf</i>		1900 N <i>427 lbf</i>		2100 N <i>472 lbf</i>		6	-	-
-55-67-L-1	3500 N <i>787 lbf</i>		1900 N <i>427 lbf</i>		2100 N <i>472 lbf</i>		6	-	-
-55-67-L-2	3500 N <i>787 lbf</i>		1900 N <i>427 lbf</i>		2100 N <i>472 lbf</i>		6	-	-
-55-67-R-1	3500 N <i>787 lbf</i>		1900 N <i>427 lbf</i>		2100 N <i>472 lbf</i>		6	-	-
-55-67-R-2	3500 N <i>787 lbf</i>		1900 N <i>427 lbf</i>		2100 N <i>472 lbf</i>		6	-	-
EN 236 -75-60	2700 N <i>607 lbf</i>		2130 N <i>479 lbf</i>		1800 N <i>405 lbf</i>		5	-	-
EN 237.1-30-30-A	(1700 N) <i>(382 lbf)</i>		(1000 N) <i>(225 lbf)</i>		(1400 N) <i>(315 lbf)</i>		3	-	-
-30-30-B	(1700 N) <i>(382 lbf)</i>		(850 N) <i>(191 lbf)</i>		(1300 N) <i>(292 lbf)</i>		3	-	-
-40-40-A	(1900 N) <i>(427 lbf)</i>		(1280 N) <i>(288 lbf)</i>		(1900 N) <i>(427 lbf)</i>		3	-	-
-40-40-B	(1600 N) <i>(360 lbf)</i>		(1000 N) <i>(225 lbf)</i>		(1900 N) <i>(427 lbf)</i>		5	-	-
-40-40-C	(1900 N) <i>(427 lbf)</i>		(1000 N) <i>(225 lbf)</i>		(2000 N) <i>(450 lbf)</i>		-	-	5
-40-40-D	(1900 N) <i>(427 lbf)</i>		(1000 N) <i>(225 lbf)</i>		(1900 N) <i>(427 lbf)</i>		3	-	5
-40-40-E	(1600 N) <i>(360 lbf)</i>		(1000 N) <i>(225 lbf)</i>		(1900 N) <i>(427 lbf)</i>		5	-	5
-50-50-A	(2400 N) <i>(540 lbf)</i>		(1720 N) <i>(387 lbf)</i>		(2630 N) <i>(591 lbf)</i>		5	-	-
-50-50-B	(2410 N) <i>(542 lbf)</i>		(1360 N) <i>(306 lbf)</i>		(2860 N) <i>(643 lbf)</i>		5	-	-
-50-50-C	(2560 N) <i>(576 lbf)</i>		(2100 N) <i>(472 lbf)</i>		(2340 N) <i>(526 lbf)</i>		-	-	5
-50-50-D	(2400 N) <i>(540 lbf)</i>		(1720 N) <i>(387 lbf)</i>		(2340 N) <i>(526 lbf)</i>		5	-	5
-50-50-E	(2410 N) <i>(542 lbf)</i>		(1360 N) <i>(306 lbf)</i>		(2340 N) <i>(526 lbf)</i>		5	-	5
-60-60-A	(2960 N) <i>(665 lbf)</i>		(3070 N) <i>(690 lbf)</i>		(3320 N) <i>(746 lbf)</i>		5	-	-
-60-60-B	(2810 N) <i>(632 lbf)</i>		(2170 N) <i>(488 lbf)</i>		(3440 N) <i>(773 lbf)</i>		5	-	-
-60-60-C	(3940 N) <i>(886 lbf)</i>		(2130 N) <i>(479 lbf)</i>		(3000 N) <i>(674 lbf)</i>		-	-	5
-60-60-D	(2960 N) <i>(665 lbf)</i>		(2130 N) <i>(479 lbf)</i>		(3000 N) <i>(674 lbf)</i>		5	-	5
-60-60-E	(2810 N) <i>(632 lbf)</i>		(2130 N) <i>(479 lbf)</i>		(3000 N) <i>(674 lbf)</i>		5	-	5
-63-50-A	(1600 N) <i>(360 lbf)</i>		(1000 N) <i>(225 lbf)</i>		(800 N) <i>(180 lbf)</i>		5	-	-
-76-60-A	(1500 N) <i>(337 lbf)</i>		(1000 N) <i>(225 lbf)</i>		(600 N) <i>(135 lbf)</i>		5	-	-
-40-40-A-VDB	200 N <i>45 lbf</i>	(1900 N) <i>(427 lbf)</i>	200 N <i>45 lbf</i>	(1200 N) <i>(270 lbf)</i>	100 N <i>23 lbf</i>	(1600 N) <i>(360 lbf)</i>	3	-	-
-50-50-A-VDB	200 N <i>45 lbf</i>	(3100 N) <i>(697 lbf)</i>	200 N <i>45 lbf</i>	(2000 N) <i>(450 lbf)</i>	100 N <i>23 lbf</i>	(2100 N) <i>(472 lbf)</i>	5	-	-



Part number	Radial load capacity				Axial load capacity		Max. tightening torque of the hinge attachment		
	F_{R0}		F_{R90}		F_A		in Nm		
							Bore	Thread	Bolt
EN 237.1 -40-40-A-MDB	100 N <i>23 lbf</i>	(1800 N) <i>(405 lbf)</i>	100 N <i>23 lbf</i>	(950 N) <i>(214 lbf)</i>	50 N <i>11 lbf</i>	(1100 N) <i>(247 lbf)</i>	2	-	-
-50-50-A-MDB	100 N <i>23 lbf</i>	(3000 N) <i>(674 lbf)</i>	100 N <i>23 lbf</i>	(1200 N) <i>(270 lbf)</i>	50 N <i>11 lbf</i>	(1900 N) <i>(427 lbf)</i>	5	-	-
EN 239.3-70-60-SH	3010 N <i>677 lbf</i>		1310 N <i>294 lbf</i>		2920 N <i>656 lbf</i>		5	-	-
-70-60-CH	1200 N <i>270 lbf</i>		1360 N <i>306 lbf</i>		960 N <i>216 lbf</i>		4	-	-
EN 239.4-70-53	2800 N <i>629 lbf</i>		1300 N <i>292 lbf</i>		2100 N <i>472 lbf</i>		5	-	-
EN 239.6-60-110	2800 N <i>629 lbf</i>		1300 N <i>292 lbf</i>		2100 N <i>472 lbf</i>		5	-	-
EN 239.7-60-70	760 N <i>171 lbf</i>		5800 N <i>1304 lbf</i>		4500 N <i>1012 lbf</i>		5	-	-
-60-110	7600 N <i>1709 lbf</i>		5800 N <i>1304 lbf</i>		4500 N <i>1012 lbf</i>		5	-	-
EN 337.1-40-40	500 N <i>112 lbf</i>		400 N <i>90 lbf</i>		800 N <i>180 lbf</i>		3	-	-
-50-50	1100 N <i>247 lbf</i>		700 N <i>157 lbf</i>		1200 N <i>270 lbf</i>		5	-	-
-60-60	1600 N <i>360 lbf</i>		1250 N <i>281 lbf</i>		2050 N <i>461 lbf</i>		5	-	-