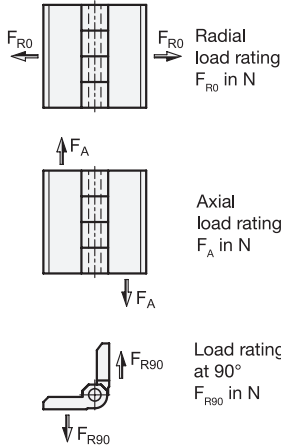


Load Rating of Metal Hinges

in Ascending Order of the Standard Numbers



An extensive series of tests were carried out with the hinges listed below.

The hinges were slowly loaded and relieved at room temperature with incrementally increasing force. After load relieve, a deformation irrelevant in terms of function and appearance remained at the listed values for F_A , F_{R0} and F_{R90} . The breaking loads were in most cases multiples above the specified value.

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 envisaged use. Ambient factors and ageing may influence the specified values.

Article no.	Radial load rating		Axial load rating
	F_{R0} in N	F_{R90} in N	F_A in N
GN 127	-ZD-52-40	1000	600
	-ZD-64-50	1700	900
	-ZD-76-60	2000	1150
	-A4-52-40	1500	600
	-A4-64-50	2300	900
	-A4-76-60	2800	1150
GN 129	-12-D	1000	1000
	-12-Z	600	900
	-16-D	1500	2500
	-16-Z	900	1500
GN 129.2	-45-40-*	1200	250
	-50-51-*	1000	250
	-53-40-*	1000	250
	-61-51-*	1000	250
GN 129.3	-66-55-A-ST	1000	400
	-91-55-A-ST	1000	400
GN 129.5	-12-D-*	1000	1000
	-16-D-*	1500	2500
GN 136	-ST-30-30	500	700
	-ST-30-45	750	1300
	-ST-40-40	1000	2000
	-ST-40-60	1500	2400
	-ST-45-30	500	700
	-ST-50-50	2000	2500
	-ST-50-75	2250	2500
	-ST-60-30	500	700
	-ST-60-40	1000	1200
	-ST-60-60	2500	2800
	-ST-60-90	3000	3000
	-ST-75-50	2000	1600
	-ST-80-40	1000	1200
	-ST-90-60	2500	1100
	-ST-100-50	1600	1200
	-ST-120-60	2500	1100
-NI-30-30		500	700
	-NI-30-45	750	1300
	-NI-40-40	1000	2000



Article no.	Radial load rating		Axial load rating	
	F_{R0} in N	F_{R90} in N	F_A in N	
GN 136	-NI-40-60	1500	1300	2400
	-NI-45-30	500	450	700
	-NI-50-50	2000	1000	2500
	-NI-50-75	2250	1300	2500
	-NI-60-30	500	450	700
	-NI-60-40	1000	1000	1200
	-NI-60-60	2500	1000	2800
	-NI-60-90	3000	1200	3000
	-NI-75-50	2000	1000	1600
	-NI-80-40	1000	1000	1200
	-NI-90-60	2500	1000	1100
	-NI-100-50	1600	700	1200
	-NI-120-60	2500	1000	1100
GN 138	-ZD-40-42-A	1500	4000	1000
	-ZD-40-65-A	2500	4500	1750
	-ZD-50-52-A	3000	5000	2000
	-ZD-50-80-A	3500	6000	2500
	-ZD-60-62-A	4000	6500	2900
	-ZD-60-95-A	4500	7000	3100
	-ZD-80-82-A	5000	8000	3500
	-ZD-80-125-A	6000	9000	4100
GN 139.1	-49-101	1000	1000	1500
	-79-101	500	500	750
GN 139.2	-49-101	1000	1000	1500
	-79-101	500	500	750
GN 139.5	-76-126	2000	2000	2000
GN 139.6	-76-126	2000	2000	2000
GN 161	-57	1150	1500	600
	-68	1500	1200	750
	-80	2500	2500	1000
GN 235	-NI-40-45	2500	3000	2500
	-NI-45-45	2500	3000	2500
	-NI-50-45	2500	3000	2500
	-NI-50-55	3000	4000	2200
	-NI-55-55	3000	4000	2200
	-NI-60-55	3000	4000	2200
	-NI-60-65	3500	4500	1800
	-NI-68-65	3500	4500	1800
	-NI-76-65	3500	4500	1800
	-ZD-40-45	1000	2000	1700
	-ZD-45-45	1000	2000	1700
	-ZD-50-45	1000	2000	1700
	-ZD-50-55	1500	2500	1500
	-ZD-55-55	1500	2500	1500
	-ZD-60-55	1500	2500	1500
	-ZD-60-65	2500	3500	1200
	-ZD-68-65	2500	3500	1200
	-ZD-76-65	2500	3500	1200
GN 237	-AL-30-30-A-EL	1000	800	500
	-AL-40-40-A-EL	2000	2800	1000
	-AL-50-50-A-EL	3000	4300	2300
	-AL-60-60-A-EL	5000	4600	4100
	-NI-30-30-A-GS	1800	800	800
	-NI-40-40-A-GS	4000	3000	2100
	-NI-50-50-A-GS	6900	3200	2600

Article no.	Radial load rating		Axial load rating
	F_{R0} in N	F_{R90} in N	F_A in N
GN 237	-NI-60-60-A-GS	10000	5000
	-NI-40-40-C	2300	1000
	-NI-50-50-C	2800	1300
	-NI-60-60-C	4500	1500
	-A4-30-30-A-GS	1800	800
	-A4-40-40-A-GS	4000	1700
	-A4-50-50-A-GS	6900	2300
	-A4-60-60-A-GS	10000	5000
	-ZD-30-30-A	1200	750
	-ZD-40-40-A	2100	2000
	-ZD-50-50-A	3500	2500
	-ZD-60-60-A	6000	5000
	-ZD-40-40-C	1700	1900
	-ZD-50-50-C	3500	2000
	-ZD-60-60-C	4000	2500
	GN 237	-NI-63-50-A-GS	4000
-NI-76-50-A-GS		4000	2000
-NI-90-60-A-GS		4500	2000
-NI-120-60-A-GS		4500	2000
-ZD-63-50-A		2600	1200
-ZD-76-50-A		3000	1300
-ZD-90-60-A		4500	1400
-ZD-120-60-A		4500	1500
-ZD-63-50-C		2800	1500
-ZD-76-50-C		3000	1500
-ZD-90-60-C		3500	1500
-ZD-120-60-C		5000	1500
GN 237	-NI-30-45-A-GS	1900	3500
	-NI-40-60-A-GS	4100	4700
	-NI-50-75-A-GS	6900	5900
	-NI-60-90-A-GS	11600	8900
	-NI-80-120-A-GS	15900	10700
	-NI-30-45-C-GS	2000	1900
	-NI-40-60-C-GS	3500	3500
	-NI-50-75-C-GS	5900	3900
	-NI-60-90-C-GS	7100	7900
	-NI-80-120-C-GS	11100	12500
	-ZD-30-45-A-GS	1500	2900
	-ZD-40-60-A-GS	2900	3500
	-ZD-50-75-A-GS	5300	4100
	-ZD-60-90-A-GS	6300	6900
	-ZD-80-120-A-GS	7900	8300
	-ZD-30-45-C-GS	3400	2100
	-ZD-40-60-C-GS	5500	2600
	-ZD-50-75-C-GS	6400	5400
-ZD-60-90-C-GS	7100	6500	
-ZD-80-120-C-GS	8900	10700	
GN 237.3	-A4-50-50-A	3900	2900
	-A4-50-50-B	5900	2900
	-A4-63-50-A	3900	2900
	-A4-63-50-B	5900	2900
	-A4-76-50-A	6000	5400
	-A4-76-50-B	7900	5400
	-A4-60-60-A	4900	3900
	-A4-60-60-B	7400	3900



Article no.	Radial load rating		Axial load rating	
	F_{R0} in N	F_{R90} in N	F_A in N	
GN 237.3	-A4-80-80-A	5900	8900	5900
	-A4-80-80-B	11900	8900	8900
	-A4-90-60-A	3900	3900	3900
	-A4-90-60-B	7400	3900	5900
	-A4-120-60-A	7400	7900	3900
	-A4-120-60-B	9900	7900	5900
	-A4-120-80-A	5900	8900	5900
	-A4-120-80-B	11900	8900	8900
	-A4-160-80-A	11900	8900	5900
	-A4-160-80-B	15900	8900	8900
GN 237.3	-NI-50-50-A	6000	3000	3000
	-NI-50-50-B	10000	5000	5000
	-NI-63-50-A	6000	3000	3000
	-NI-63-50-B	10000	5000	5000
	-NI-76-50-A	7000	5000	4000
	-NI-76-50-B	13000	7000	7000
	-NI-60-60-A	8000	6000	6000
	-NI-60-60-B	15000	8000	10000
	-NI-80-80-A	10000	8000	8000
	-NI-80-80-B	22000	10000	13000
	-NI-90-60-A	8000	6000	6000
	-NI-90-60-B	15000	8000	10000
	-NI-120-60-A	10000	8000	6000
	-NI-120-60-B	21000	10000	13000
	-NI-120-80-A	10000	8000	8000
	-NI-120-80-B	22000	10000	13000
	-NI-160-80-A	13000	10000	10000
	-NI-160-80-B	28000	13000	15000
GN 238	-42-42-BJ	1500	2100	1050
	-42-42-EJ	1000	1500	1200
	-42-42-NJ	1250	1350	1500
	-50-50-BJ	1500	2200	1500
	-50-50-EJ	1500	1700	1500
	-50-50-NJ	1800	1900	2000
	-60-60-BJ	2500	3200	1500
	-60-60-EJ	2000	2000	1500
	-60-60-NJ	3700	2600	2550
GN 337	-NI-40-40-A-GS	3000	3500	2000
	-NI-50-50-A-GS	5000	3500	2500
	-NI-60-60-A-GS	6000	6000	5000
	-ZD-40-40-A	2200	1600	1500
	-ZD-50-50-A	3000	2500	2500
	-ZD-60-60-A	4300	3500	3100
GN 437	-A4-40-40-A	2500	1500	1200
	-A4-50-50-A	3200	2000	1600
	-A4-60-60-A	4500	2400	2000
	-ZD-40-40-A	2500	1500	1200
	-ZD-50-50-A	3200	2000	1600
	-ZD-60-60-A	4500	2400	2000
GN 437.1	-ZD-60-60-A	2800	2300	2000
GN 437.2	-ZD-60-60-A	3000	2800	2000
GN 437.3	-ZD-60-60	2300	2000	1700
GN 437.4	-ZD-60-60	2800	2300	1700
GN 938	-ZD-92-60-4	3800	3800	1800
	-ZD-122-90-8	6200	6200	2400

Article no.	Radial load rating		Axial load rating	
	F_{R0} in N	F_{R90} in N	F_A in N	
GN 1362	-NI-60-30-A	1500	1700	2750
	-NI-60-40-A	1500	1950	3750
	-NI-60-60-A	1750	1350	4250
	-NI-80-30-A	1500	1700	2750
	-NI-80-40-A	1500	1950	3750
	-NI-80-80-A	3000	1500	6750
	-NI-100-100-A	3500	1750	7250
GN 1364	-NI-70-50-B	2750	2000	3750
	-NI-105-50-B	2750	2000	3750
	-NI-140-50-B	2750	2000	3750
GN 1366	-ST-60-30-A	9500	3750	5750
	-ST-120-30-A	9500	3750	5750
	-ST-160-30-A	9500	3750	5750
GN 1366	-ST-60-40-A	10000	4350	7000
	-ST-120-40-A	10000	4350	7000
	-ST-160-40-A	10000	4350	7000
	-ST-60-50-A	12000	5000	7750
	-ST-120-50-A	12000	5000	7750
	-ST-160-50-A	12000	5000	7750
	-ST-60-60-A	17500	5500	11000
	-ST-120-60-A	17500	5500	11000
	-ST-160-60-A	14000	7000	11000
	-ST-160-80-A	19000	7500	13500
	-ST-200-80-A	19000	7500	13500
	-ST-160-100-A	26000	9750	17500
	-ST-200-100-A	26000	9750	17500
	-ST-220-100-A	26000	9750	17500
	-ST-60-40-S	7000	3000	7000
	-ST-120-40-S	7000	3000	7000
	-ST-160-40-S	7000	3000	7000
	-ST-60-50-S	8400	3500	7750
	-ST-120-50-S	8400	3500	7750
	-ST-160-50-S	8400	3500	7750
	-ST-60-60-S	12250	3850	11000
	-ST-120-60-S	12250	3850	11000
	-ST-160-60-S	9800	4900	11000
	-ST-160-80-S	13300	5250	13500
	-ST-200-80-S	13300	5250	13500
	-ST-160-100-S	18200	6800	17500
	-ST-200-100-S	18200	6800	17500
	-ST-220-100-S	18200	6800	17500

