



Elastomeric Bridge Bearings Catalogue

Circulate bearings
Rectangular bearings

28 March 2019
[A]

Elastomeric Rubber Bearing | NRB | Bridge Bearings

circular | G90

Device Type	load limits*		Dimensions		Unit characteristic for modelling [$\gamma=70\%$]*			
	SLS Static Load average [kN]	ULS Static Load maximum [kN]	Bearing dimension [mm]	Total height H [mm]	horizontal displacement Dmax [mm]	Maximum horizontal force Fmax [kN]	Compressive vertical stiffness k_{vc} (kN/mm)	Effective stiffness K_{eff} [kN/mm]
270 dia circular								
270 Dia. NRB - H78	400	600	270	78	38	31	334	0.815
320 dia circular								
320 Dia. NRB - H85	600	900	320	85	45	42	345	0.937
320 Dia. NRB - H78	600	900	320	78	38	5	654	0.119
370 dia circular								
370 Dia. NRB - H118	800	1200	370	118	62	56	416	0.910
370 Dia. NRB - H114	800	1200	370	114	63	53	284	0.837
370 Dia. NRB - H105	800	1200	370	105	50	6	798	0.120
420 dia circular								
420 Dia. NRB - H127	1267	1900	420	127	70	67	417	0.959
420 Dia. NRB - H118	1267	1900	420	118	62	74	683	1.187
420 Dia. NRB - H105	1267	1900	420	105	51	80	1257	1.559
470 dia circular								
470 Dia. NRB - H127	1600	2400	470	127	70	89	652	1.274
470 Dia. NRB - H118	1600	2400	470	118	62	96	1041	1.545
470 Dia. NRB - H105	1600	2400	470	105	50	100	1847	1.996
520 dia circular								
520 Dia. NRB - H166	1933	2900	520	166	91	108	691	1.189
520 Dia. NRB - H153	1933	2900	520	153	84	110	767	1.312
520 Dia. NRB - H140	1933	2900	520	140	77	112	855	1.456
520 Dia. NRB - H118	1933	2900	520	118	62	121	1497	1.947
520 Dia. NRB - H105	1933	2900	520	105	50	124	2567	2.486
570 dia circular								
570 Dia. NRB - H166	2400	3600	570	166	91	134	978	1.478
570 Dia. NRB - H153	2400	3600	570	153	84	137	1081	1.625
570 Dia. NRB - H140	2400	3600	570	140	77	139	1203	1.799
570 Dia. NRB - H127	2400	3600	570	127	70	141	1349	2.008
570 Dia. NRB - H118	2400	3600	570	118	62	147	2058	2.379
570 Dia. NRB - H105	2400	3600	570	105	50	151	3421	3.017
620 dia circular								
620 Dia. NRB - H205	2733	4100	620	205	112	159	1023	1.422
620 Dia. NRB - H192	2733	4100	620	192	105	161	1110	1.535
620 Dia. NRB - H179	2733	4100	570	179	98	163	1212	1.665
620 Dia. NRB - H162	2733	4100	620	162	84	172	1889	2.043
620 Dia. NRB - H141	2733	4100	620	141	67	179	3172	2.665
670 dia circular								
670 Dia. NRB - H205	3333	5000	670	205	112	190	1352	1.696
670 Dia. NRB - H192	3333	5000	670	192	105	192	1466	1.828
670 Dia. NRB - H179	3333	5000	670	179	98	194	1598	1.980
670 Dia. NRB - H162	3333	5000	670	162	84	203	2438	2.415
670 Dia. NRB - H141	3333	5000	670	141	67	210	3994	3.133
720 dia circular								
720 Dia. NRB - H231	3867	5800	720	231	127	222	1494	1.749
720 Dia. NRB - H218	3867	5800	720	218	119	222	1611	1.869
720 Dia. NRB - H205	3867	5800	720	205	112	224	1738	2.003
720 Dia. NRB - H192	3867	5800	720	192	105	226	1884	2.156
720 Dia. NRB - H179	3867	5800	720	179	98	228	2050	2.330
720 Dia. NRB - H162	3867	5800	720	162	84	237	3068	2.824
720 Dia. NRB - H141	3867	5800	720	141	67	244	4909	3.645
770 dia circular								
770 Dia. NRB - H231	4400	6600	770	231	127	260	1880	2.044
770 Dia. NRB - H218	4400	6600	770	218	119	260	2023	2.181
770 Dia. NRB - H192	4400	6600	770	192	112	281	2362	2.510
770 Dia. NRB - H179	4400	6600	770	179	98	265	2564	2.709
770 Dia. NRB - H162	4400	6600	770	162	84	274	3772	3.265
770 Dia. NRB - H141	4400	6600	770	141	67	281	5915	4.195
820 dia circular								
820 Dia. NRB - H270	5000	7500	820	270	147	291	1905	1.979
820 Dia. NRB - H257	5000	7500	820	257	140	293	2031	2.092
820 Dia. NRB - H244	5000	7500	820	244	133	295	2169	2.217
820 Dia. NRB - H231	5000	7500	820	231	126	297	2323	2.356
820 Dia. NRB - H195	5000	7500	820	195	101	310	3683	3.073
820 Dia. NRB - H168	5000	7500	820	168	80	320	5771	3.999
870 dia circular								
870 Dia. NRB - H270	5667	8500	870	270	147	333	2318	2.263
870 Dia. NRB - H257	5667	8500	870	257	140	335	2469	2.390
870 Dia. NRB - H244	5667	8500	870	244	133	337	2630	2.531
870 Dia. NRB - H231	5667	8500	870	231	126	339	2816	2.687
870 Dia. NRB - H195	5667	8500	870	195	100	349	4394	3.487
870 Dia. NRB - H168	5667	8500	870	168	80	362	6767	4.522

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420x270 rectangular								
420x270 NRB - H88	867	1300	420x270	88	50	56	407	1.111
420x270 NRB - H85	867	1300	420x270	85	44	58	677	1.317
420x270 NRB - H78	867	1300	420x270	78	38	64	1260	1.682
420x320 rectangular								
420x320 NRB - H88	1200	1800	420x320	88	49	67	505	1.369
420x320 NRB - H85	1200	1800	420x320	85	44	71	800	1.603
420x320 NRB - H78	1200	1800	420x320	78	38	77	1458	2.025
470x370 rectangular								
470x370 NRB - H127	1600	2400	470x370	127	70	85	532	1.208
470x370 NRB - H118	1600	2400	470x370	118	62	93	868	1.493
470x370 NRB - H105	1600	2400	470x370	105	50	98	1596	1.959
520x420 rectangular								
520x420 NRB - H127	2000	3000	520x420	127	70	113	809	1.619
520x420 NRB - H118	2000	3000	520x420	118	62	121	1292	1.957
520x420 NRB - H105	2000	3000	520x420	105	50	128	2291	2.564
620x470 rectangular								
620x470 NRB - H153	2807	4210	620x470	153	84	152	1200	1.812
620x470 NRB - H140	2807	4210	620x470	140	77	155	1331	2.011
620x470 NRB - H129	2807	4210	620x470	129	67	163	2079	2.433
620x470 NRB - H105	2807	4210	620x470	105	50	171	3886	3.419
620x520 rectangular								
620x520 NRB - H166	3000	4500	620x520	166	91	172	1177	1.894
620x520 NRB - H153	3000	4500	620x520	153	84	175	1298	2.080
620x520 NRB - H140	3000	4500	620x520	140	77	177	1439	2.299
620x520 NRB - H127	3000	4500	620x520	127	70	179	1614	2.563
620x520 NRB - H118	3000	4500	620x520	118	62	188	2459	3.027
620x520 NRB - H105	3000	4500	620x520	105	50	191	4085	3.827
720x620 rectangular								
720x620 NRB - H205	4200	6300	720x620	205	112	244	1588	2.178
720x620 NRB - H192	4200	6300	720x620	192	105	246	1721	2.345
720x620 NRB - H179	4200	6300	720x620	179	98	249	1869	2.536
720x620 NRB - H162	4200	6300	720x620	162	84	259	2849	3.081
720x620 NRB - H141	4200	6300	720x620	141	67	267	4659	3.985
820x720 rectangular								
820x720 NRB - H231	5600	8400	820x720	231	127	333	2165	2.622
820x720 NRB - H218	5600	8400	820x720	218	119	333	2329	2.796
820x720 NRB - H205	5600	8400	820x720	205	112	335	2505	2.991
820x720 NRB - H192	5600	8400	820x720	192	105	337	2710	3.213
820x720 NRB - H179	5600	8400	820x720	179	98	340	2941	3.466
820x720 NRB - H162	5600	8400	820x720	162	84	350	4322	4.164
820x720 NRB - H141	5600	8400	820x720	141	67	358	6763	5.337
820x820 rectangular								
820x820 NRB - H257	6400	9600	820x820	257	140	381	2034	2.718
820x820 NRB - H231	6400	9600	820x820	231	126	385	2322	3.054
820x820 NRB - H218	6400	9600	820x820	218	119	387	2493	3.252
820x820 NRB - H205	6400	9600	820x820	205	112	389	2685	3.475
820x820 NRB - H192	6400	9600	820x820	192	105	391	2904	3.727
820x820 NRB - H179	6400	9600	820x820	179	98	393	3149	4.015
820x820 NRB - H162	6400	9600	820x820	162	84	403	4556	4.796
820x820 NRB - H141	6400	9600	820x820	141	67	410	7019	6.119