



GFR

Types GFR, GFRN are roller type freewheels. They are bearing supported, using two 160.. series bearings, and require oil lubrication. These units may be used in designs providing oil lubrication and sealing as on the example overleaf. The bearings must not be axially stressed. Typically, types GFR, GFRN are used with the F series covers that are designed to transmit torque, and provide oil lubrication and sealing. Usually these covers are used in pairs according to combinations shown on the following pages. The outer race of the GFR model is plain to receive and center any component bored to H7 tolerance. Torque is transmitted by bolts through the cover plate in this case. Types GFR, GFRN are identical except that type GFRN has a keyway on the outside diameter to transmit the torque. Two paper seals are delivered with each unit to be placed between the outer race and cover plates.

Type	Model Number	Torque TKN(Nm)	Overrunning speeds		Diameter[mm]													Size	Num	Weight [kg]
			ni(r/min)	na(r/min)	d	D	D 2	D 4	D 3	t	L1	L	B	t1	b	f	G			
GFR	GFR12	55	4000	7200	12	62	20	42	51	—	42	20	27	2,5	4	0,5	Φ5.5	3	0.5	
	GFR15	125	3600	6500	15	68	25	47	56	8	52	28	32	3	5	0,8	M5	3	0.8	
	GFR20	181	2700	5600	20	75	30	55	64	8	57	34	39	3,5	6	0,8	M5	4	1	
	GFR25	288	2100	4500	25	90	40	68	78	10	60	35	40	4	8	1,0	M6	4	1.5	
	GFR30	500	1700	4100	30	100	45	75	87	10	68	43	48	4	8	1,0	M6	6	2.2	
	GFR35	725	1550	3800	35	110	50	80	96	12	74	45	51	5	10	1,0	M6	6	3	
	GFR40	1025	1150	3400	40	125	55	90	108	14	86	53	59	5	12	1,5	M8	6	4.6	
	GFR45	1125	1000	3200	45	130	60	95	112	14	86	53	59	5,5	14	1,5	M8	8	4.7	
	GFR50	2125	800	2800	50	150	70	110	132	14	94	64	72	5,5	14	1,5	M8	8	7.2	
	GFR55	2625	750	2650	55	160	75	115	138	16	104	66	72	6	16	2,0	M10	8	8.6	
	GFR60	3500	650	2450	60	170	80	125	150	16	114	78	89	7	18	2,0	M10	10	10.5	
	GFR70	5750	550	2150	70	190	90	140	165	16	134	95	108	7,5	20	2,5	M10	10	13.5	
	GFR80	8500	500	1900	80	210	105	160	185	16	144	100	108	9	22	2,5	M10	10	18.2	
	GFR90	14500	450	1700	90	230	120	180	206	20	158	115	125	9	25	3,0	M12	10	28.5	
	GFR100	20000	350	1450	100	270	140	210	240	24	182	120	131	10	28	3,0	M16	10	42.5	
GFR130	31250	250	1250	130	310	160	240	278	24	212	152	168	11	32	3,0	M16	12	65		
GFR150	70000	200	980	150	400	200	310	360	32	246	180	194	12	36	4,0	M20	12	138		
GFRN	GFRN12	55	4000	7200	12	62	20	42	51	—	42	20	27	2,5	4	0,5	Φ5.5	3	0.5	
	GFRN15	125	3600	6500	15	68	25	47	56	8	52	28	32	3	5	0,8	M5	3	0.8	
	GFRN20	181	2700	5600	20	75	30	55	64	8	57	34	39	3,5	6	0,8	M5	4	1	
	GFRN25	288	2100	4500	25	90	40	68	78	10	60	35	40	4	8	1,0	M6	4	1.5	
	GFRN30	500	1700	4100	30	100	45	75	87	10	68	43	48	4	8	1,0	M6	6	2.2	
	GFRN35	725	1550	3800	35	110	50	80	96	12	74	45	51	5	10	1,0	M6	6	3	
	GFRN40	1025	1150	3400	40	125	55	90	108	14	86	53	59	5	12	1,5	M8	6	4.6	
	GFRN45	1125	1000	3200	45	130	60	95	112	14	86	53	59	5,5	14	1,5	M8	8	4.7	
	GFRN50	2125	800	2800	50	150	70	110	132	14	94	64	72	5,5	14	1,5	M8	8	7.2	

GFRN55	2625	750	2650	55	160	75	115	138	16	104	66	72	6	16	2,0	M10	8	8.6
GFRN60	3500	650	2450	60	170	80	125	150	16	114	78	89	7	18	2,0	M10	10	10.5
GFRN70	5750	550	2150	70	190	90	140	165	16	134	95	108	7,5	20	2,5	M10	10	13.5
GFRN80	8500	500	1900	80	210	105	160	185	16	144	100	108	9	22	2,5	M10	10	18.2
GFRN90	14500	450	1700	90	230	120	180	206	20	158	115	125	9	25	3,0	M12	10	28.5
GFRN100	20000	350	1450	100	270	140	210	240	24	182	120	131	10	28	3,0	M16	10	42.5
GFRN130	31250	250	1250	130	310	160	240	278	24	212	152	168	11	32	3,0	M16	12	65
GFRN150	70000	200	980	150	400	200	310	360	32	246	180	194	12	36	4,0	M20	12	138

NOTES

- 1) $T_{max} = 2 \times T_{KN}$
» Refer to Selection page 10 to 13
- 2) Inner race overruns. Values without radial lip seals
- 3) Outer race overruns. Values without radial lip seals
Keyway to DIN 6885.1
- *) GFR12 has through holes in outer race
» Refer to mounting and maintenance instructions
page 16 to 19

MOUNTING EXAMPLE

