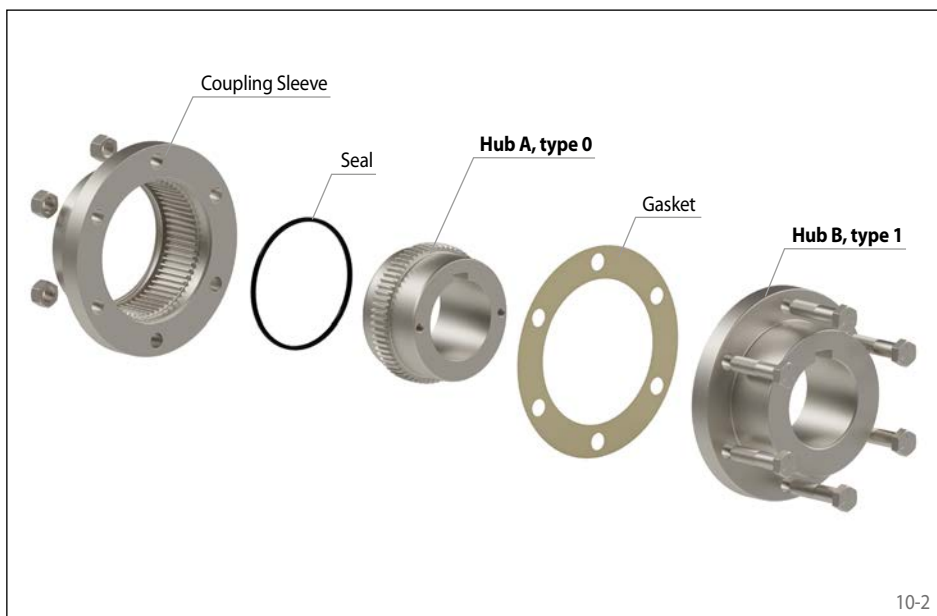


Gear Couplings GFR

single engagement gearing – lubricated
with fully crowned teeth



10-1



10-2

Custom designs available upon request

- Heat-treated, alloyed or nitrided steels
- Balanced couplings for high speeds
- Other sizes and special versions
- Lubrication ports: NPT (BSP and metric on request)
- Documentation: imperial / metric

Features

- High nominal torques up to 1 033 200 inch-lb or 116 750 Nm
- Compensation of axial, radial and angular misalignments
- Angular misalignments up to 1.5° permissible
- Sleeve with extended tothing allows greater axial displacements
- Ideal for use in combination with floating intermediate shafts
- Flange geometry in accordance with ANSI/AGMA – compatible with standard AGMA interfaces
- Interchangeable with standard AGMA couplings of the same size
- High power density
- Typical applications: Roller drives in the steel and paper industry, pumps, conveyor systems, fans and blowers

Order example

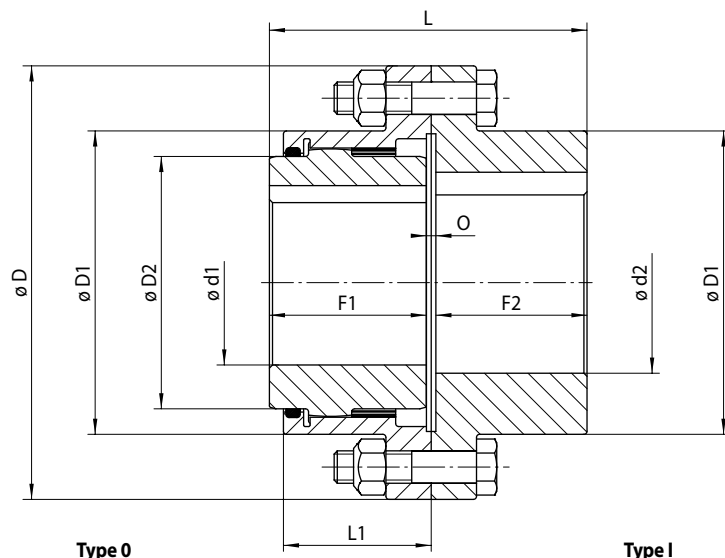
	Code
Coupling design	GFR
Coupling size	1010
Type	DFO
Material of the hub:	STA
• Steel	
Hub A, type:	0
• 0, standard	
Hub A, design:	
• finish bored with keyway	FB
• pilot bored	VA
Bore diameter hub A in inch: 3/4" * or bore diameter hub A in mm: 19 mm**	AAM 019
Hub B, type:	1
• I, coupling half, rigid	
Hub B, design:	
• finish bored with keyway	FB
• pilot bored	VA
Bore diameter hub B in inch: 1" * or bore diameter hub B in mm: 25 mm**	ABA 025

GFR 1010 DFO-STA-0FBAAM-1FBABA

* Bores are made in accordance with AGMA 9002-C14. Please specify the required bore tolerance in accordance with the order code on page 19.

** Metric bores are produced with the standard tolerance H7. Other bore tolerances are available on request.

single engagement gearing – lubricated
with fully crowned teeth



11-1

Coupling size	Nominal torque T_{KN}		Nominal power at 100 rpm P_{K100}		Max. speed n_{max}	Moment of inertia (solid hubs) J_K		Permissible misalignments		
	inch-lb	Nm	HP	kW		lb-in ²	kgm ²	Axial		Angular
					rpm			inch	mm	°
1010	9600	1090	15.3	11,4	7000	18,64	0,005	±0.01	±0,3	0.75
1015	17000	1920	27	20,1	5400	66	0,019	±0.01	±0,3	
1020	31500	3560	50	37,3	4800	150	0,044	±0.01	±0,3	
1025	53500	6000	85	63,4	4300	380	0,111	±0.01	±0,3	
1030	94500	10600	150	111,8	4000	720	0,211	±0.01	±0,3	
1035	141500	16000	225	167,8	3600	1520	0,445	±0.02	±0,5	
1040	218500	24700	347	258,8	3200	2895	0,847	±0.02	±0,5	
1045	324000	36600	515	384,0	3200	4640	1,360	±0.02	±0,5	
1050	415500	47000	660	492,2	3200	9075	2,660	±0.02	±0,5	
1055	551000	62000	875	652,5	2400	14180	4,150	±0.02	±0,5	
1060	749500	84500	1190	887,0	2200	18670	5,460	±0.04	±1,0	
1070	1033000	116500	1640	1223,0	1800	37685	11,030	±0.04	±1,0	

Coupling size	Pilot d1/d2		Bore								D		D1		D2		F1		F2		L		L1		O		Weight varies by bore	
			d1 max.*				d2 max.*																					
	Square key	Reduced key	Square key	Reduced key	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	lbs.	kg		
inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	lbs.	kg	
1010	Solid	Solid	1.63	41,40	1.75	44,45	2.25	57,15	2.38	60,45	4.56	115,82	3.06	77,72	2.38	60,45	1.69	42,93	1.59	40,39	3.44	87,38	1.64	41,66	0.16	4,06	20	9
1015	Solid	Solid	2.25	57,15	2.38	60,45	2.75	69,85	2.88	73,15	6.00	152,40	3.92	99,57	3.13	79,50	1.94	49,28	1.89	48,01	4.00	101,60	1.82	46,23	0.16	4,06	35	16
1020	Solid	Solid	2.75	69,85	3.00	76,20	3.25	82,55	3.50	88,90	7.00	177,80	4.86	123,44	4.00	101,60	2.44	61,98	2.33	59,18	4.93	125,22	2.34	59,44	0.16	4,06	73	33
1025	Solid	Solid	3.50	88,90	3.75	95,25	4.38	111,25	4.50	114,30	8.37	212,60	5.86	148,84	4.88	123,95	3.03	76,96	2.92	74,17	6.12	155,45	2.86	72,64	0.19	4,83	130	59
1030	1.44	36,58	4.00	101,60	4.38	111,25	5.00	127,00	5.19	131,83	9.44	239,78	6.86	174,24	5.75	146,05	3.59	91,19	3.46	87,88	7.25	184,15	3.47	88,14	0.19	4,83	198	90
1035	1.44	36,58	4.50	114,30	5.00	127,00	5.38	136,65	5.75	146,05	11.00	279,40	7.88	200,15	6.50	165,10	4.19	106,43	3.91	99,31	8.31	211,07	3.91	99,31	0.22	5,59	309	140
1040	1.44	36,58	5.50	139,70	5.88	149,35	6.50	165,10	7.00	177,80	12.50	317,50	9.22	234,19	7.75	196,85	4.75	120,65	4.56	115,82	9.63	244,60	4.53	115,06	0.31	7,87	463	210
1045	2.00	50,80	6.25	158,75	6.75	171,45	7.38	187,45	7.88	200,15	13.63	346,20	10.35	262,89	9.00	228,60	5.31	134,87	5.06	128,52	10.71	272,03	5.00	127,00	0.34	8,64	639	290
1050	2.69	68,33	6.75	171,45	7.00	177,80	7.88	200,15	8.38	212,85	15.31	388,87	11.44	290,58	9.50	241,30	6.03	153,16	5.88	149,35	12.25	311,15	5.78	146,81	0.34	8,64	860	390
1055	3.00	76,20	7.50	190,50	7.75	196,85	9.00	228,60	9.25	234,95	16.75	425,45	12.69	322,33	10.50	266,70	6.62	168,15	6.81	172,97	13.77	349,76	6.34	161,04	0.34	8,64	1014	460
1060	3.50	88,90	8.13	206,50	8.75	222,25	10.00	254,00	10.25	260,35	18.00	457,20	13.75	349,25	11.50	292,10	7.41	188,21	7.06	179,32	14.88	377,95	6.94	176,28	0.41	10,41	1532	695
1070	4.00	101,60	9.63	244,60	10.25	260,35	11.25	285,75	12.25	311,15	20.75	527,05	16.00	406,40	13.50	342,90	8.69	220,73	8.31	211,07	17.50	444,50	7.95	201,93	0.50	12,70	2359	1070

* Maximum bore diameter in accordance with AGMA 9002-C14. For bore tolerance, see order code. Lubrication connections in accordance with the order option (NPT / BSP / metric). Hubs up to and including size 1025 are only supplied with extracting threads on request. The maximum permissible bore diameters may be reduced by extracting threads.