Floating Shaft

Performance Information

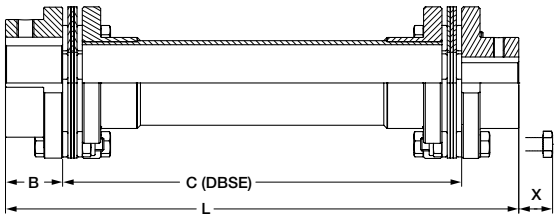
Model	Continuous Rated Torque	Peak Rated Torque	Torsional Stiffness			Misalignments			A Hub		B Hub		Clamp Hub		Weight adder per meter (DBSE)[3]	Inertia adder per meter (DBSE)[3]
			Torsional Stiffness at 300 mm (DBSE)[1]	Factor Z	Factor Y	Angular[2]	Parallel	Axial	Base Unit Wt. at 300 mm DBSE[3]	Base Unit Inertia at 300 mm DBSE[3]	Additional Weight for each hub	Additional Inertia for each hub	Additional Weight for each hub (maximum)	Additional Inertia for each hub (maximum)		
	Nm	Nm	Nm/Rad	Nm/Rad	Nm/Rad	Degrees °	mm/meter DBSE	mm	kg	kg-cm²	kg	kg-cm²	kg	kg-cm²	kg/meter	kg-cm²/meter
6F22 6F22C	30	60	3379	0.338	138	2.5	22	1.5	0.9	2.52	0.02	0.2	0.14	0.4	0.97	1.37
6F26 6F26C	53	106	5589	0.559	344	2.5	22	2	1.5	5.56	0.09	0.4	0.18	1	1.54	3.4
6F30 6F30C	90	180	8157	0.816	344	2.5	22	2.5	1.9	10.1	0.1	1.4	0.3	2.3	1.54	3.4
6F37 6F37C	181	362	24439	2.444	2146	3	26	3.6	3.8	34.5	0.1	3.4	0.5	5.6	3.73	21.2
6F45 6F45C	282	564	46963	4.696	4205	3	26	4.6	6	82.4	0.2	7.9	0.5	13.4	4.54	41.6
6F52 6F52C	402	804	64571	6.457	5874	3	26	5.6	9.5	179	0.2	15.8	1.7	38.8	5.22	58.2
6F60 6F60C	718	1436	102533	10.253	8765	3	26	6.6	12.8	320	0.7	42.8	2.3	45	5.97	86.8
6F67 6F67C	1164	2328	157561	15.756	15454	3	26	7.6	18	587	1	75.5	2.5	52.6	7.21	153

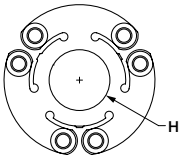
1 For torsional stiffness (K, Nm/Radian) of units longer than 300 mm, use the following formula, where L=(DBSE-300) : $K = \left[\frac{(Z \times Y)}{(L \times Z) + Y}\right] \times 10^4$

2 See next page regarding selection of coupling and misalignment capability.

3 For weight and inertia of units longer than 300 mm, subtract 300 mm from the DBSE (dimension C) and multiply by weight/inertia adders listed above.

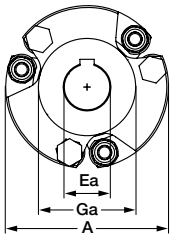
Dimensional Information



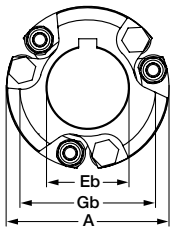


Flex Disc

Set Screw Style Hubs

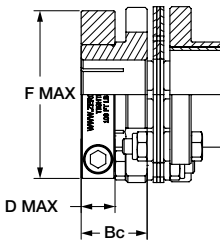


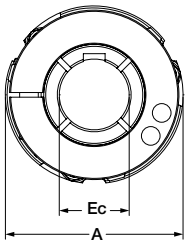
A Hub



B Hub

Clamp Style Hub





Model	A	B	Bc	D max.	F max.	Max. Bohrung				Ga	Gb	H	X*	C min.
						Set Screw Hub		Clamp Hub						
						Ea	Eb	Ec	Ec					
		A & B Hub	C Hub	C Hub	C Hub	A Hub	B Hub	C Hub w/kwy	C Hub w/o kwy	A Hub	B Hub			
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
6F22 6F22C	57.2	23.8	25.4	14	56	16	26	20	25	31	47.6	24.9	13	50.8
6F26 6F26C	65.8	27	27	14	60	19	32	24	30	38.1	54.8	25.4	9.9	60.5
6F30 6F30C	76.2	31.8	31.8	18	74	25	35	30	35	43.4	63.5	31	9.9	68.3
6F37 6F37C	95.3	36.5	36.5	19	94	32	46	40	48	55.6	79.4	38	17.3	87.4
6F45 6F45C	114.3	42.9	42.9	22	109	42	60	45	55	68.3	95.3	46	23.1	113
6F52 6F52C	133.4	49.2	49.2	25	125	45	66	60	65	84.1	111.1	54	18.5	132
6F60 6F60C	152.4	61.9	61.9	34	145	60	76	70	75	93.2	127	61	17.5	154
6F67 6F67C	171.5	69.9	69.9	34	165	65	85	80	90	109	142.9	69	10.4	169

- Dimension L is equal to (2 x B) + C (C is the DBSE or span)
- Dimension C is always manufactured to application requirements.

* „X" dimension is the minimum bolt travel required beyond the hub to disassemble the disc pack from the hubs.

Performance Note: The torque capacity of keyless clamped hubs is governed by many factors, including shaft/hub bore diameter, clamp size, and other installation variables. Keyless coupling hubs with smaller bore sizes (approximately less than one-half the maximum bore listed) may not transmit the full torque rating of the coupling. Consult Zero-Max for further detail if your application is of high torque/small shaft variety.

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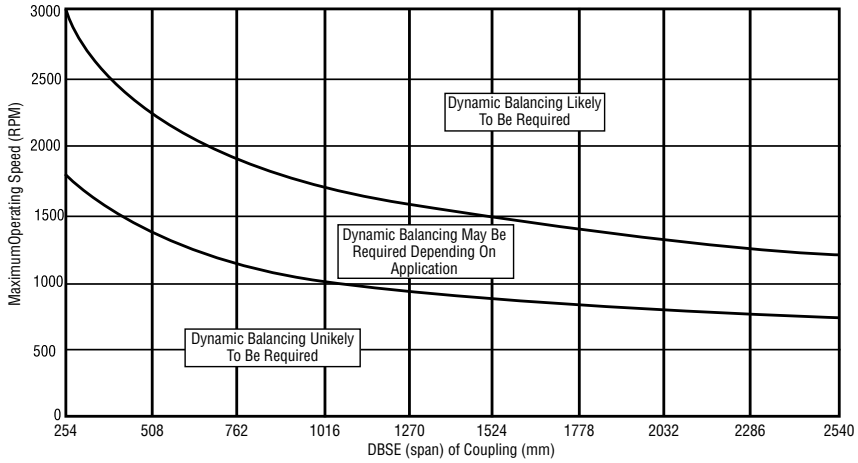
Maximum Span C

Modell	2250 RPM	2000 RPM	1750 RPM	1500 RPM	1250 RPM	1000 RPM	900 RPM	750 RPM	650 RPM	500 RPM
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
6F22 6F22C	1193	1265	1352	1461	1600	1789	1886	2066	2219	2530
6F26 6F26C	1332	1413	1511	1632	1787	1998	2107	2308	2479	2826
6F30 6F30C	1332	1413	1511	1632	1787	1998	2107	2308	2479	2826
6F37 6F37C	1295	1709	1915	2068	2266	2533	2670	2925	3142	3582
6F45 6F45C	1511	2012	2157	2330	2553	2854	3008	3295	3540	4036
6F52 6F52C	655	983	1463	2202	2681	2997	3159	3461	3718	4239
6F60 6F60C	843	1245	1824	2616	2866	3204	3377	3700	3974	4531
6F67 6F67C	826	1252	1877	2840	3150	3522	3713	4067	4369	4981

Dynamic Balancing Guidelines for CD Floating Shaft Couplings



DBSE (Distance "C")

RPM	Up to 750 mm	750 mm–1500 mm	Over 1500 mm
	Degree °	Degree °	Degree °
To 500 RPM	3	2.5	2
500 RPM–1000 RPM	2.5	2	1.5
1000 RPM–1500 RPM	2	1.5	1
Above 1500 RPM	1	0.75	0.5

How to Order

6	Type	Size	Hub-Style	(	Bore 1	Keyway Specification*	X	Bore 2	Keyway Specification*	) –	Distance (DBSE)
	F = Floating-Shaft	22 45 26 52 30 60 37 67	(omit) = Steel Set-Screw Hubs C = Steel Clamp Style Hubs		Specify "mm" or "inches"	KEY = With Keyway NKW = No Keyway		Specify "mm" or "inches"	KEY = With Keyway NKW = No Keyway		Specify "mm" or "inches"

Note: Other hub designs on request.

* Standard Size Keyways (See charts below)

Bore sizes are based on the nominal shaft diameters, as documented by the AGMA Standard 511.02 (Bore and Keyway Sizes for Flexible Couplings).
All clearance fits (standard) are according with the ANSI B4.2 (imperial) and with the ISO 286-1 (metric).

Bore Size (mm)		Keyway	Bore Size (mm)		Keyway
Over	To		Over	To	
10	12	4 x 1.8	58	65	18 x 4.4
12	17	5 x 2.3	65	75	20 x 4.9
17	22	6 x 2.8	75	85	22 x 5.4
22	30	8 x 3.3	85	95	25 x 5.4
30	38	10 x 3.3	95	110	28 x 6.4
38	44	12 x 3.3	110	130	32 x 7.4
44	50	14 x 3.8	130	150	36 x 8.4
50	58	16 x 4.3	150	170	40 x 9.4

Bore Size (mm)		Keyway	Bore Size (mm)		Keyway
Over	To		Over	To	
0.437	0.562	0.125 x 0.062	2.250	2.750	0.625 x 0.312
0.562	0.875	0.187 x 0.094	2.750	3.250	0.750 x 0.375
0.875	1.250	0.250 x 0.125	3.250	3.750	0.875 x 0.437
1.250	1.375	0.312 x 0.156	3.750	4.500	1.000 x 0.500
1.375	1.750	0.375 x 0.187	4.500	5.500	1.250 x 0.625
1.750	2.250	0.500 x 0.250	5.500	6.500	1.500 x 0.750

Example: 6F30C (20mm NKW x 1.125" KEY)–500mm

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