

AUTOFLEX DISC COUPLINGS

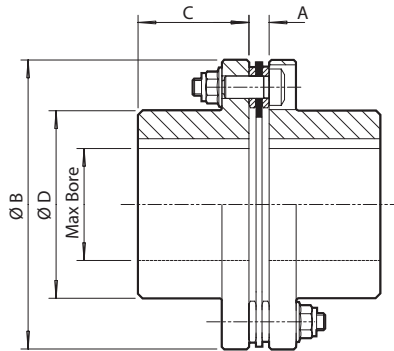
SERIES SF (SINGLE FLEX)

The Autoflex SF coupling has been designed for medium and high duty applications. The coupling has been specifically designed for three bearing systems, which only require angular and axial misalignment capacity.

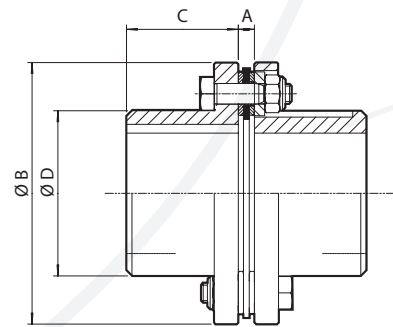
The coupling is offered with four, six and eight link discs. The four and six link couplings have been optimized for medium duty application. The eight-link design offers higher torque capacities within a given diameter.

The coupling consists of three parts, two hubs and a disc pack. The SF couplings use scalloped discs, which provide higher flexibility and ensures lower reaction forces on the driving and driven equipment.

The six and eight-link coupling also utilize overload collars to protect the coupling from high transient torque's.



SF - 4 Link Coupling



SF - 6 Link Coupling

Technical Details

Coupling Size - Links	Rating HP/100 rpm	Torque Rating		Maximum Speed ②		① Weight (lbs)	① Inertia (lb.in ²)	Max. Axial Misalignment (in)
		Cont. (in.lbs)	Peak (in.lbs)	Unbal. (rpm)	Bal. (rpm)			
156 - 4	1.5	974	1,950	11,700	21,000	2.35	2.76	0.030
188 - 4	2.7	1,680	3,360	10,400	19,000	4.04	6.70	0.037
150 - 6	2.1	1,330	2,390	11,600	12,800	2.47	3.78	0.015
200 - 6	4.9	3,100	5,490	9,600	11,300	5.67	13.1	0.019
256 - 6	9.8	6,200	11,000	8,500	10,000	9.41	32.0	0.022
269 - 6	18	11,500	23,000	7,900	9,000	13.2	56.5	0.026
319 - 6	31	19,500	38,900	7,000	7,500	21.6	129	0.031
375 - 6	46	29,200	58,400	6,400	7,200	33.2	259	0.035
419 - 6	67	42,500	85,000	5,900	6,400	45.4	452	0.040
475 - 6	98	62,000	124,000	5,500	6,000	64.5	787	0.045
525 - 6	120	77,900	156,000	5,100	5,600	86.0	1,283	0.049
613 - 6	180	115,000	230,000	4,700	4,700	123	2,453	0.057

1) Weights and Inertias are calculated using maximum bored hubs.

2) Maximum Unbalanced Speeds are based on AGMA 9000-C90 Class 9 with min DBSE and max interference bored coupling hubs.

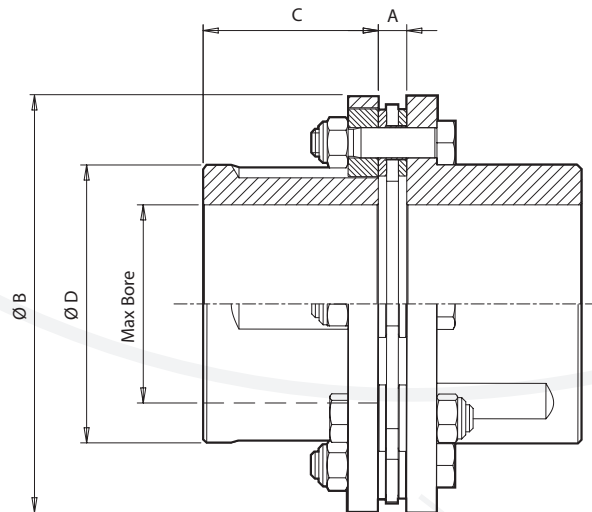
Dimensional Details

Coupling Size - Links	Maximum ③ Bore (in)	A DBSE (in)	B (in)	C (in)	D (in)
156 - 4	1 9/16	0.25	3.50	1.31	2.23
188 - 4	1 7/8	0.32	4.07	1.56	2.64
150 - 6	1 1/2	0.29	3.50	1.44	2.09
200 - 6	2	0.37	4.33	1.81	2.78
256 - 6	2 9/16	0.37	5.24	2.26	3.58
269 - 6	2 11/16	0.37	5.98	2.56	3.78
319 - 6	3 3/16	0.38	7.09	2.95	4.49
375 - 6	3 3/4	0.44	8.07	3.54	5.28
419 - 6	4 3/16	0.59	9.06	3.74	5.91
475 - 6	4 3/4	0.62	10.12	4.33	6.65
525 - 6	5 1/4	0.65	11.10	4.72	7.40
613 - 6	6 1/8	0.76	12.80	5.12	8.58

3) Maximum Bore assumes a standard AGMA interference fit with a square keyway. Larger bores are available using rectangular keys.

NOTE: The SF Coupling is used on 3 bearing systems, and only accepts angular and axial misalignment. Do not use where offset misalignment is needed.

AUTOFLEX DISC COUPLINGS SERIES SF (SINGLE FLEX)



SF - 8 Link Couplings

Technical Details

Coupling Size - Links	Rating HP/100 rpm	Torque Rating		Maximum Speed ②		① Weight (lbs)	① Inertia (lb.in ²)	Max. Axial Misalignment (in)
		Cont. (in.lbs)	Peak (in.lbs)	Unbal. (rpm)	Bal. (rpm)			
313 - 8	47	29,800	59,700	7,200	12,800	20.0	111	0.068
350 - 8	72	45,400	90,700	6,400	11,300	31.5	222	0.077
400 - 8	100	65,800	132,000	5,900	10,000	44.8	403	0.087
450 - 8	150	91,800	184,000	5,500	9,000	61.7	687	0.097
488 - 8	200	125,000	250,000	5,200	8,200	81.4	1,100	0.106
538 - 8	270	168,000	336,000	4,900	7,500	106	1,730	0.116
550 - 8	350	221,000	443,000	4,600	7,200	135	2,460	0.120
638 - 8	400	254,000	507,000	4,300	6,400	175	3,860	0.136
675 - 8	500	318,000	635,000	4,100	6,000	214	5,430	0.146
725 - 8	620	391,000	783,000	3,900	5,600	271	7,760	0.156
850 - 8	1,000	641,000	1,280,000	3,500	4,700	454	18,000	0.186
1000 - 8	1,600	1,030,000	2,060,000	3,200	4,000	686	37,250	0.216
1175 - 8	2,800	1,770,000	3,540,000	2,800	3,400	1,200	90,900	0.257

1) Weights and Inertias are calculated using maximum bored hubs.

2) Maximum Unbalanced Speeds are based on AGMA 9000-C90 Class 9 with min DBSE and max interference bored coupling hubs.

Dimensional Details

Coupling Size - Links	① Maximum Bore (in)	A DBSE (in)	B (in)	C (in)	D (in)
313 - 8	3 1/8	0.51	6.73	2.56	4.45
350 - 8	3 1/2	0.57	7.68	3.15	5.04
400 - 8	4	0.64	8.62	3.54	5.71
450 - 8	4 1/2	0.70	9.57	3.94	6.34
488 - 8	4 7/8	0.76	10.55	4.13	6.97
538 - 8	5 3/8	0.83	11.54	4.53	7.64
550 - 8	5 1/2	0.82	12.20	5.12	7.91
638 - 8	6 3/8	0.93	13.54	5.71	9.06
675 - 8	6 3/4	0.99	14.49	6.10	9.57
725 - 8	7 1/4	1.06	15.47	6.89	10.35
850 - 8	8 1/2	1.19	18.27	8.46	12.28
1000 - 8	10	1.33	21.18	9.25	14.21
1175 - 8	11 3/4	1.53	25.20	11.81	16.81

3) Maximum Bore assumes a standard AGMA interference fit with a square keyway. Larger bores are available using rectangular keys.

NOTE: The SF Coupling is used on 3 bearing systems, and only accepts angular and axial misalignment. Do not use where offset misalignment is needed.