

# FLEXIBLE SHAFT COUPLINGS

## FLEXIBLE DRIVE COUPLINGS

Flexible Drive Couplings are lighter than steel and cast iron couplings, which helps prolong bearing and seal life on pumps, gear boxes and motors. Our Couplings and Pump Motor Adapters work together to reduce vibration, heat, noise and wear and tear.

### Standard Features:

- Made from Lightweight Aluminum
- Machined with tight tolerances to help eliminate vibration and noise
- Alignment can easily be made with a straight edge and a feeler gage
- Double set screws are standard which creates a more secure fit from coupling to shaft
- Max Bore 3.875 (60 mm)
- Max Torque 47,269 in-lbs

### Styles Available:

- Standard Bore and Key
- Metric Bore and Key
- Steel Set Screw (Style SS)
- Steel Clamp (Style SC)
- Set Screw (Style AS)
- Clamp (Style AC)



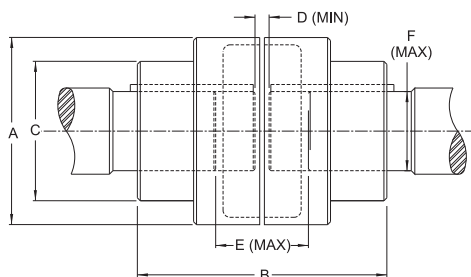
**Flexible Drive Coupling Data**

Size	Maximum Bore (inches)	Dimensions (inches)			Distance Between Shafts (inches)		HP Torque in-lbs	Rated HP at			Inertia ft-lb	Grommet
		F	A	B	C	D (min)		E (max)	100 RPM	1200 RPM		
RC1	1.12	2.62	2.56	2.12	.06	0.75	473	0.75	9	13.5	0.005	P380
RC1	1.12	2.62	2.56	2.12	.06	0.75	630	1	12	18	0.005	Hytrel
RC2	1.38	2.91	3.17	2.31	.06	0.88	630	1	12	18	0.009	P380
RC2	1.38	2.91	3.17	2.31	.06	0.88	1103	1.75	21	31.5	0.009	Hytrel
RC3	1.62	3.44	3.60	2.97	.06	0.88	1261	2	24	36	0.022	P380
RC3	1.62	3.44	3.60	2.97	.06	0.88	2206	3.5	42	63	0.022	Hytrel
RC4	1.88	4.00	4.24	3.12	.06	1.12	1576	2.5	30	45	0.039	P380
RC4	1.88	4.00	4.24	3.12	.06	1.12	3309	5.25	63	94.5	0.039	Hytrel
RC5	2.38	4.81	4.68	4.06	.06	1.25	3466	5.5	66	99	0.100	P380
RC5	2.38	4.81	4.68	4.06	.06	1.25	6933	11	132	198	0.100	Hytrel
RC6	2.62	5.97	6.04	4.56	.06	1.38	7563	12	144	216	0.260	P380
RC6	2.62	5.97	6.04	4.56	.06	1.38	15756	25	300	450	0.260	Hytrel
RC7	2.88	6.91	7.01	5.25	.06	1.88	12605	20	240	360	0.480	P380
RC7	2.88	6.91	7.01	5.25	.06	1.88	28361	45	540	810	0.480	Hytrel
RC8	3.88	8.62	7.92	7.12	.06	2.00	31513	50	600	900	1.560	P380
RC8	3.88	8.62	7.92	7.12	.06	2.00	47269	75	900	1350	1.560	Hytrel

**Spline Coupling Data\***

Spline Specifications			
Number of Teeth	Pitch	SAE	Coupling Sizes
9	16/32	A, AA	RC1-RC5
13	8/16	D, E	RC4-RC8
13	16/32	B	RC1-RC6
14	12/24	C	RC2-RC8
15	8/16	F	RC4-RC8
15	16/32	BB	RC1-RC6
17	12/24	CC	RC3-RC8
21	16/32	—	RC3-RC8
23	16/32	—	RC3-RC8
27	16/32	—	RC4-RC8

\* All splines are SAE 30° PA, flat root, side fit



**Nominal Bore Diameter**

From	To (including)	Tolerance
.375	1.000	+ .0008 / + .0003
1.000	2.000	+ .0013 / + .0005
2.000	3.000	+ .0018 / + .0008
3.000	3.875	+ .0020 / + .0010

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## FLEXIBLE DRIVE COUPLINGS - STANDARD BORE AND KEY



**Flexible Drive Couplings - Standard Bore and Key**

		Coupling Part Numbers							
Bore	Key	RC1	RC2	RC3	RC4	RC5	RC6	RC7	RC8
3/8	3/32	RC1-0375-094	RC2-0375-094						
7/16	3/32	RC1-0437-094	RC2-0437-094						
7/16	1/8	RC1-0437-125	RC2-0437-125						
1/2	1/8	RC1-0500-125	RC2-0500-125	RC3-0500-125					
9/16	1/8	RC1-0562-125	RC2-0562-125	RC3-0562-125					
5/8	5/32	RC1-0625-156	RC2-0625-156	RC3-0625-156					
5/8	3/16	RC1-0625-187	RC2-0625-187	RC3-0625-187	RC4-0625-187				
11/16	3/16	RC1-0687-187	RC2-0687-187	RC3-0687-187	RC4-0687-187				
3/4	1/8	RC1-0750-125	RC2-0750-125	RC3-0750-125	RC4-0750-125				
3/4	3/16	RC1-0750-187	RC2-0750-187	RC3-0750-187	RC4-0750-187	RC5-0750-187	RC6-0750-187		
7/8	3/16	RC1-0875-187	RC2-0875-187	RC3-0875-187	RC4-0875-187	RC5-0875-187	RC6-0875-187		
7/8	1/4	RC1-0875-250	RC2-0875-250	RC3-0875-250	RC4-0875-250	RC5-0875-250	RC6-0875-250		
15/16	1/4	RC1-0937-250	RC2-0937-250	RC3-0937-250	RC4-0937-250	RC5-0937-250	RC6-0937-250		
1	3/16	RC1-1000-187	RC2-1000-187	RC3-1000-187	RC4-1000-187	RC5-1000-187	RC6-1000-187		
1	1/4	RC1-1000-250	RC2-1000-250	RC3-1000-250	RC4-1000-250	RC5-1000-250	RC6-1000-250		
1 1/8	1/4	RC1-1125-250	RC2-1125-250	RC3-1125-250	RC4-1125-250	RC5-1125-250	RC6-1125-250	RC7-1125-250	
1 3/16	1/4		RC2-1187-250	RC3-1187-250	RC4-1187-250	RC5-1187-250	RC6-1187-250	RC7-1187-250	
1 1/4	1/4		RC2-1250-250	RC3-1250-250	RC4-1250-250	RC5-1250-250	RC6-1250-250	RC7-1250-250	RC8-1250-250
1 1/4	5/16		RC2-1250-312	RC3-1250-312	RC4-1250-312	RC5-1250-312	RC6-1250-312	RC7-1250-312	RC8-1250-312
1 3/8	5/16		RC2-1375-312	RC3-1375-312	RC4-1375-312	RC5-1375-312	RC6-1375-312	RC7-1375-312	RC8-1375-312
1 3/8	3/8		RC2-1375-375	RC3-1375-375	RC4-1375-375	RC5-1375-375	RC6-1375-375	RC7-1375-375	RC8-1375-375
1 7/16	3/8			RC3-1437-375	RC4-1437-375	RC5-1437-375	RC6-1437-375	RC7-1437-375	RC8-1437-375
1 1/2	5/16			RC3-1500-312	RC4-1500-312	RC5-1500-312	RC6-1500-312	RC7-1500-312	RC8-1500-312
1 1/2	3/8			RC3-1500-375	RC4-1500-375	RC5-1500-375	RC6-1500-375	RC7-1500-375	RC8-1500-375
1 5/8	3/8			RC3-1625-375	RC4-1625-375	RC5-1625-375	RC6-1625-375	RC7-1625-375	RC8-1625-375
1 3/4	3/8				RC4-1750-375	RC5-1750-375	RC6-1750-375	RC7-1750-375	RC8-1750-375
1 3/4	7/16				RC4-1750-437	RC5-1750-437	RC6-1750-437	RC7-1750-437	RC8-1750-437
1 7/8	1/2				RC4-1875-500	RC5-1875-500	RC6-1875-500	RC7-1875-500	RC8-1875-500
1 15/16	1/2					RC5-1937-500	RC6-1937-500	RC7-1937-500	RC8-1937-500
2	1/2					RC5-2000-500	RC6-2000-500	RC7-2000-500	RC8-2000-500
2 1/8	1/2					RC5-2125-500	RC6-2125-500	RC7-2125-500	RC8-2125-500
2 1/4	1/2					RC5-2250-500	RC6-2250-500	RC7-2250-500	RC8-2250-500
2 3/8	5/8					RC5-2375-625	RC6-2375-625	RC7-2375-625	RC8-2375-625
2 1/2	5/8						RC6-2500-625	RC7-2500-625	RC8-2500-625
2 5/8	5/8						RC6-2625-625	RC7-2625-625	RC8-2625-625
2 3/4	5/8							RC7-2750-625	RC8-2750-625
2 7/8	3/4							RC7-2875-750	RC8-2875-750
3	3/4								RC8-3000-750
3 1/4	3/4								RC8-3250-750
3 3/8	7/8								RC8-3375-875
3 1/2	7/8								RC8-3500-875
3 5/8	7/8								RC8-3625-875
3 3/4	7/8								RC8-3750-875
3 7/8	1								RC8-3875-100

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## FLEXIBLE DRIVE COUPLINGS - METRIC BORE AND KEY



**Flexible Drive Couplings - Metric Bore and Key Chart**

Bore	Key	Coupling Part Numbers							
		RC1	RC2	RC3	RC4	RC5	RC6	RC7	RC8
19	6	RC1-M019-06	RC2-M019-06	RC3-M019-06	RC4-M019-06	RC5-M019-06			
20	6	RC1-M020-06	RC2-M020-06	RC3-M020-06	RC4-M020-06	RC5-M020-06	RC6-M020-06		
24	8	RC1-M024-08	RC2-M024-08	RC3-M024-08	RC4-M024-08	RC5-M024-08	RC6-M024-08		
25	8	RC1-M025-08	RC2-M025-08	RC3-M025-08	RC4-M025-08	RC5-M025-08	RC6-M025-08	RC7-M025-08	
28	8	RC1-M028-08	RC2-M028-08	RC3-M028-08	RC4-M028-08	RC5-M028-08	RC6-M028-08	RC7-M028-08	
30	8		RC2-M030-08	RC3-M030-08	RC4-M030-08	RC5-M030-08	RC6-M030-08	RC7-M030-08	
32	10		RC2-M032-10	RC3-M032-10	RC4-M032-10	RC5-M032-10	RC6-M032-10	RC7-M032-10	
35	10			RC3-M035-10	RC4-M035-10	RC5-M035-10	RC6-M035-10	RC7-M035-10	
38	10			RC3-M038-10	RC4-M038-10	RC5-M038-10	RC6-M038-10	RC7-M038-10	
40	12				RC4-M040-12	RC5-M040-12	RC6-M040-12	RC7-M040-12	RC8-M040-12
42	12				RC4-M042-12	RC5-M042-12	RC6-M042-12	RC7-M042-12	RC8-M042-12
45	14				RC4-M045-14	RC5-M045-14	RC6-M045-14	RC7-M045-14	RC8-M045-14
50	14					RC5-M050-14	RC6-M050-14	RC7-M050-14	RC8-M050-14
60	18						RC6-M060-18	RC7-M060-18	RC8-M060-18

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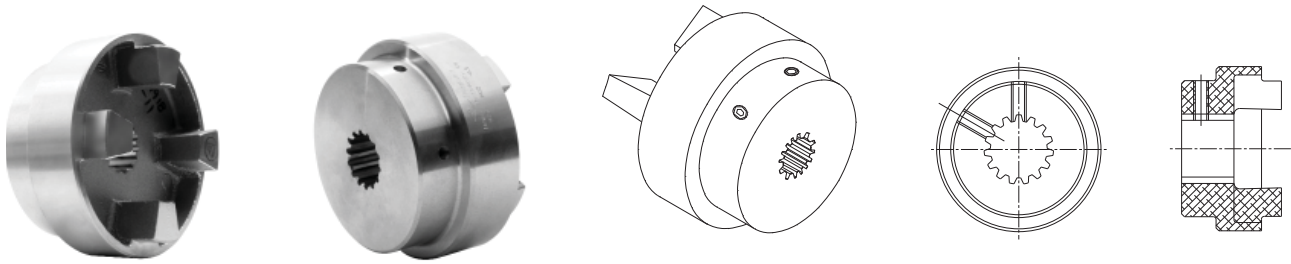
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## FLEXIBLE DRIVE COUPLINGS - SET SCREW TYPE STYLE AS

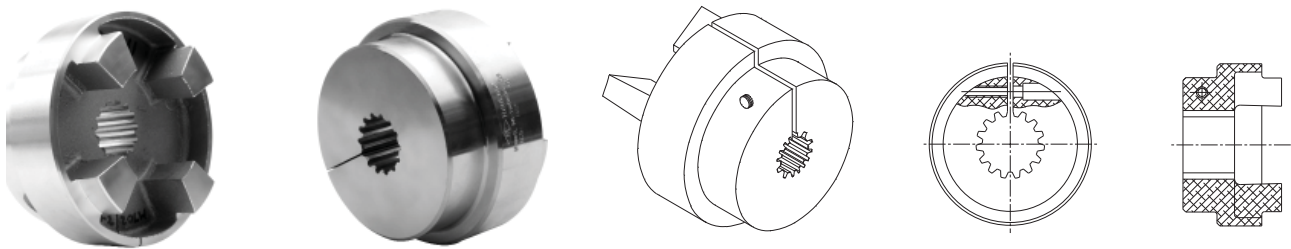


**Style AS - Spline Part Numbers**

No. of Teeth	Pitch	SAE	RC1	RC2	RC3	RC4	RC5	RC6	RC7	RC8
9	16/32	A, AA	RC1-0916-AS	RC2-0916-AS	RC3-0916-AS	RC4-0916-AS	RC5-0916-AS	-	-	-
13	8/16	D, E	-	-	-	RC4-1308-AS	RC5-1308-AS	RC6-1308-AS	RC7-1308-AS	RC8-1308-AS
13	16/32	B	RC1-1316-AS	RC2-1316-AS	RC3-1316-AS	RC4-1316-AS	RC5-1316-AS	RC6-1316-AS	-	-
14	12/24	C	-	RC2-1412-AS	RC3-1412-AS	RC4-1412-AS	RC5-1412-AS	RC6-1412-AS	RC7-1412-AS	RC8-1412-AS
15	8/16	F	-	-	-	RC4-1508-AS	RC5-1508-AS	RC6-1508-AS	RC7-1508-AS	RC8-1508-AS
15	16/32	BB	RC1-1516-AS	RC2-1516-AS	RC3-1516-AS	RC4-1516-AS	RC5-1516-AS	RC6-1516-AS	-	-
17	12/24	CC	-	-	RC3-1712-AS	RC4-1712-AS	RC5-1712-AS	RC6-1712-AS	RC7-1712-AS	RC8-1712-AS
21	16/32	-	-	-	RC3-2116-AS	RC4-2116-AS	RC5-2116-AS	RC6-2116-AS	RC7-2116-AS	RC8-2116-AS
23	16/32	-	-	-	RC3-2316-AS	RC4-2316-AS	RC5-2316-AS	RC6-2316-AS	RC7-2316-AS	RC8-2316-AS
27	16/32	-	-	-	-	RC4-2716-AS	RC5-2716-AS	RC6-2716-AS	RC7-2716-AS	RC8-2716-AS

All Splines are SAE 30° PA, Flat Root, Side Fit

## FLEXIBLE DRIVE COUPLINGS - CLAMP TYPE STYLE AC



**Style AC - Spline Part Numbers**

No. of Teeth	Pitch	SAE	RC1	RC2	RC3	RC4	RC5	RC6	RC7	RC8
9	16/32	A, AA	RC1-0916-AC	RC2-0916-AC	RC3-0916-AC	RC4-0916-AC	RC5-0916-AC	-	-	-
13	8/16	D, E	-	-	-	RC4-1308-AC	RC5-1308-AC	RC6-1308-AC	RC7-1308-AC	RC8-1308-AC
13	16/32	B	RC1-1316-AC	RC2-1316-AC	RC3-1316-AC	RC4-1316-AC	RC5-1316-AC	RC6-1316-AC	-	-
14	12/24	C	-	RC2-1412-AC	RC3-1412-AC	RC4-1412-AC	RC5-1412-AC	RC6-1412-AC	RC7-1412-AC	RC8-1412-AC
15	8/16	F	-	-	-	RC4-1508-AC	RC5-1508-AC	RC6-1508-AC	RC7-1508-AC	RC8-1508-AC
15	16/32	BB	RC1-1516-AC	RC2-1516-AC	RC3-1516-AC	RC4-1516-AC	RC5-1516-AC	RC6-1516-AC	-	-
17	12/24	CC	-	-	RC3-1712-AC	RC4-1712-AC	RC5-1712-AC	RC6-1712-AC	RC7-1712-AC	RC8-1712-AC
21	16/32	-	-	-	RC3-2116-AC	RC4-2116-AC	RC5-2116-AC	RC6-2116-AC	RC7-2116-AC	RC8-2116-AC
23	16/32	-	-	-	RC3-2316-AC	RC4-2316-AC	RC5-2316-AC	RC6-2316-AC	RC7-2316-AC	RC8-2316-AC
27	16/32	-	-	-	-	RC4-2716-AC	RC5-2716-AC	RC6-2716-AC	RC7-2716-AC	RC8-2716-AC

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