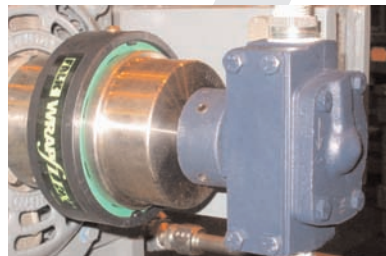
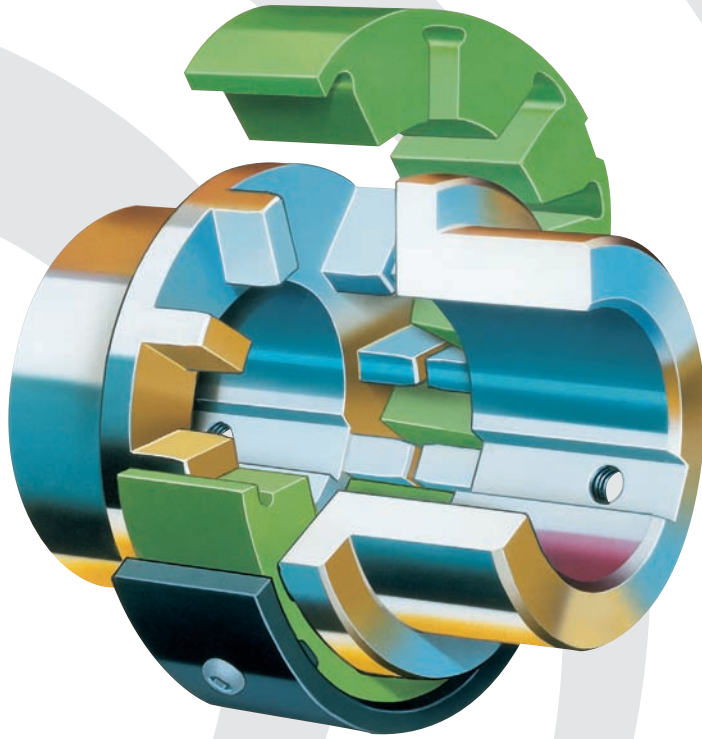


Falk™ Wrapflex® Elastomer Couplings | Talk About Simple! (English-Inch)



Falk™ Wrapflex® Elastomer Couplings

Now There's a Simple Way to Increase Productivity

- 12 sizes
- Torque Range: 133,000 lb.in. (15 028 Nm)
 - Bore Capacity: 7¼" (186 mm)
 - "Replace in Place"
 - Non-Lubricated/Low Maintenance
 - 3-Year Heavy-Duty Warranty

Ever think that keeping your production lines running more profitably could be as simple as replacing a light bulb or opening a can with a pop-top?

Quick, easy installation and replacement set new standards for reduced downtime. Because motors or drives don't need to be moved, our "replace in place" elements even eliminate the need for time-consuming realignment, further reducing downtime.

Available in close-coupled and spacer designs, Wrapflex couplings accommodate up to 7¼" (186 mm) shafts and torque loads up to 133,000 lb.in. (15 028 Nm).

For simplicity and cost-effectiveness over the life of your coupling, it just doesn't get any easier than this – Wrapflex couplings from Rexnord.

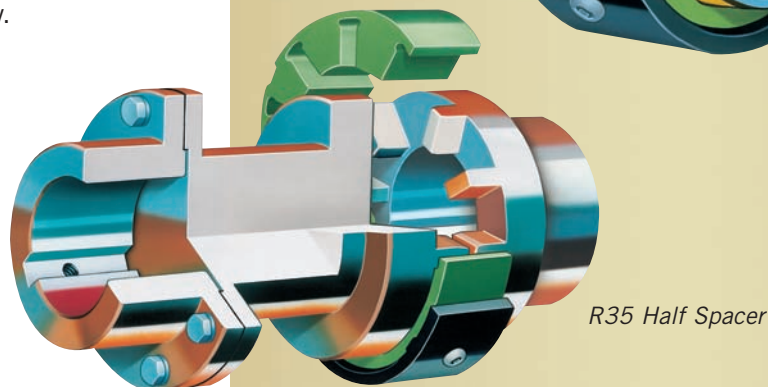
Low Initial Cost

- Advanced manufacturing methods and innovative material allow us to offer you higher capacity ratings at a more competitive price than ever before possible.
- Initial investment protected by the industry's first, standard 3-Year Heavy-Duty Warranty.

Easy to Install

- The compound root radius in the element teeth (patent #6,342,011) increases flexibility for easier and quicker assembly.
- Can be blind assembled from either direction.

R10 Close-Coupled



R35 Half Spacer



Tough, Long-Lasting

- Polyurethane element has excellent wear and chemical resistance, and an operating temperature of -40° C (-40° F) to 95° C (200° F).
- Weather-resistant, high-grade nylon cover is standard.
- Optional carbon steel covers with black epoxy coating for highly corrosive, severe-duty applications. (Standard for sizes 60-80.)
- Optional Stainless steel hubs are available for Type R10 when required in the food industry or corrosive environments.

Safety First

- Two stainless steel button-head capscrews, positioned 180° apart, prevent relative motion between cover and element and provide a positive means of retaining the cover to the element.
- Flexible element is retained after failure, helping minimize the potential for damage or personal injury.

Quick and Easy Retrofits

- Compact design eliminates the need for coupling guard redesign on existing applications.
- Stock finished bores in popular sizes. Taper bores for Q.D. and TaperLock bushings are available off-the-shelf from our worldwide distribution network.

Replace in Place

- Design allows quick and easy element replacement.
- There's no need to remove hubs or realign motors or drives, reducing downtime.

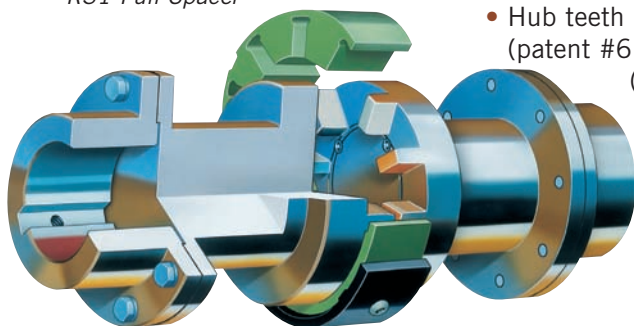
No Maintenance Needed

- Non-lubricated design of the tough, flexible polyurethane element reduces periodic maintenance costs.

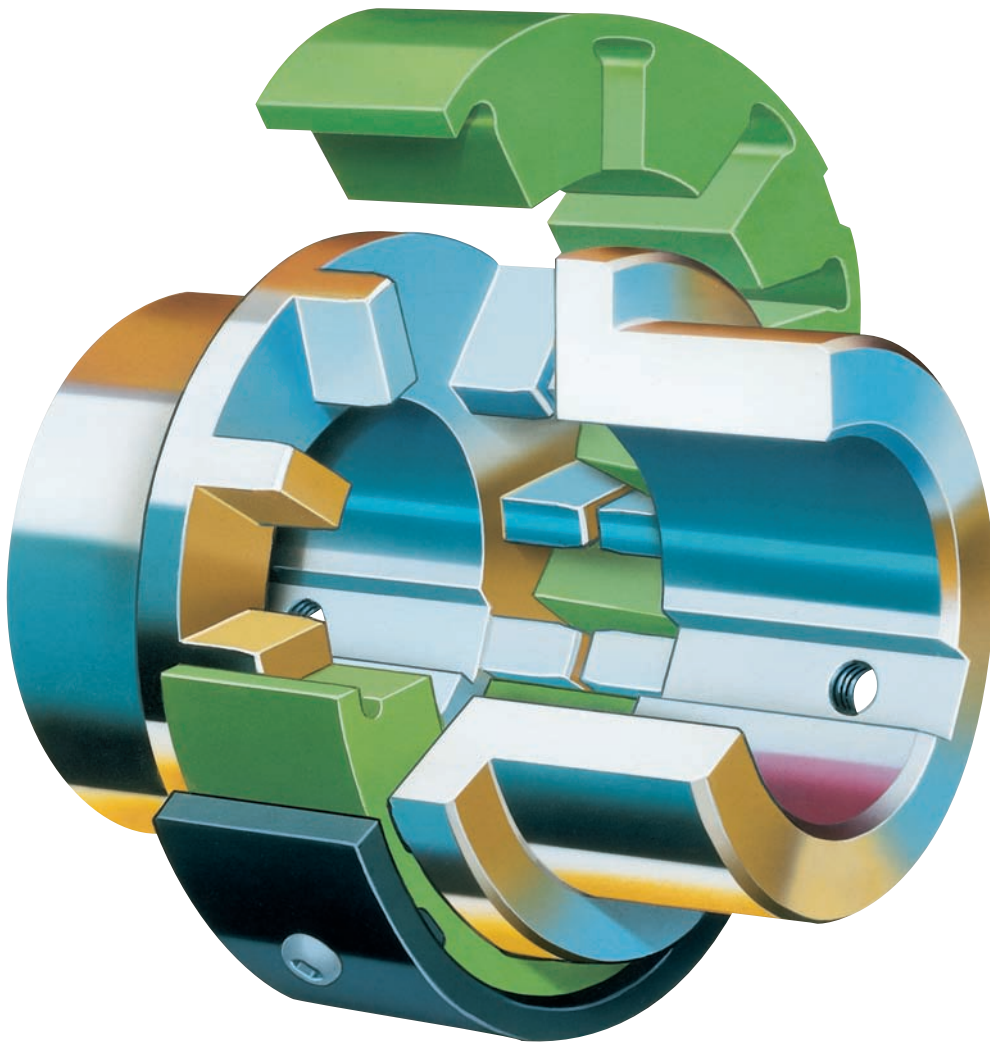
Protects Equipment

- Compound root radius on inner corners of flex element (patent #6,342,011) act as a stress relief for longer element life.
- Hub teeth machined with special nose radius (patent #6,342,011) for better tooth-to-tooth contact (Sizes 5 to 80 only).
- Special hub feature to reduce reaction loads transferred to connected equipment (patent #6,648,763).

R31 Full Spacer



Falk™ Wrapflex® Selection Guide



Selection Guide 491-110, June 2007

Wrapflex Quick Selection Method

1. Determine Service Factor — Refer to Table 1 or 4 for motor or turbine driven applications. See Table 5 for Engine Drives.
2. Determine Equivalent Horsepower:
Refer to Table 2 — Under the actual hp required and opposite the service factor, read the equivalent hp.
3. Determine Coupling Size:
- A. Refer to Table 3 — Trace horizontally from the required speed to a hp value equal to or larger than the equivalent hp determined in Step 2. Read the coupling size at the top of the column.
- B. Check shaft diameters against coupling maximum bores shown in Table 3 and on Page 8 for the correct coupling size selected.
- C. In Table 3, check the required speed against the allowable speed shown below the correct coupling size selected.
4. Determine Coupling Dimensional Requirements:
- A. Determine application/design shaft spacing and check application dimension requirements against selected coupling type dimensions shown on Pages 8 thru 12. Confirm sufficient clearances for coupling.
5. Confirm that application ambient operating temperatures are between -40°C (-40°F) to 95°C (200°F). For applications requiring Service Factor above 1.5 and temperatures above 79°C (175°F), consult Rexnord Engineering for selection assistance or optional high temperature elements.

SERVICE FACTORS are a guide, based on experience, of the ratio between coupling catalog rating and system characteristics. The system characteristics are best measured with a torque meter.

TABLE 1 — Service Factors

Torque Demands Driven Machine	Typical applications for electric motor or turbine driven equipment	Typical Service Factor
	Constant torque such as Centrifugal Pumps, Blowers, and Compressors.	1.0
	Continuous duty with some torque variations including Plastic extruders, Forced Draft Fans.	1.5
	Light shock loads from Metal Extruders, Cooling Towers, Cane Knife, Log Haul.	2.0
	Moderate shock loading as expected from a Car Dumper, Stone Crusher, Vibrating Screen.	2.5
	Heavy shock load with some negative torques from Roughing Mills, Reciprocating Pumps, Compressors, Reversing Runout Tables.	3.0
	Applications like Reciprocating Compressors with frequent torque reversals, which do not necessarily cause reverse rotations.	Refer to Factory

TABLE 2 — Equivalent Horsepower = (Actual hp x Service Factor)

Service Factor ‡	Actual HP																			
	3/4	1	1½	2	3	5	7½	10	15	20	25	30	40	50	60	75	100	125	150	200
1.0	.75	1.0	1.5	2.0	3.0	5.0	7.5	10	15	20	25	30	40	50	60	75	100	125	150	200
1.25	.94	1.25	1.9	2.5	3.8	6.3	9.4	12.5	19	25	31	38	50	63	75	94	125	156	188	250
1.5	1.1	1.5	2.3	3.0	4.5	7.5	11.3	15	23	30	38	45	60	75	90	113	150	188	225	300
1.75	1.3	1.8	2.6	3.5	5.3	8.8	13.1	18	26	35	44	53	70	88	105	131	175	219	262	350
2.0	1.5	2.0	3.0	4.0	6.0	10.0	15.0	20	30	40	50	60	80	100	120	150	200	250	300	400
2.5	1.9	2.5	3.8	5.0	7.5	12.5	18.8	25	38	50	63	75	100	125	150	187	250	312	375	500
3.0	2.3	3.0	4.5	6.0	9.0	15.0	22.5	30	45	60	75	90	120	150	180	225	300	375	450	600
3.5	2.6	3.5	5.3	7.0	10.5	17.5	26.2	35	52	70	87	105	140	175	210	262	350	437	525	700

‡ For service factors not listed, Equivalent hp = Actual hp x Service Factor.

TABLE 3 — Falk “Wrapflex” Coupling Quick Selection Chart

	2R	3R	4R	5R	10R	20R	30R	40R	50R	60R	70R	80R
Max Bore (Inches)	0.875	1.125	1.375	1.625	1.875	2.375	2.875	3.375	4.125	5.250	6.125	7.250
Max Speed	4500 rpm	4500 rpm	4500 rpm	4500 rpm	4500 rpm	4500 rpm	4500 rpm	3600 rpm	3000 rpm	2500 rpm	2100 rpm	1800 rpm
Torque (lb-in)	100	300	500	550	1,150	2,800	4,600	9,100	22,200	35,500	70,900	133,000
HP/100 rpm	0.159	0.476	0.793	0.873	1.82	4.44	7.30	14.4	35.2	56.3	112	211
RPM	HP Ratings											
4500	7.14	21.4	35.7	39.3	82.1	200	328					
3600	5.71	17.1	28.6	31.4	65.7	160	263					
3000	4.76	14.3	23.8	26.2	54.7	133	219	520	1057			
2500	3.97	11.9	19.8	21.8	45.6	111	182	361	881	1408		
2100	3.33	10.0	16.7	18.3	38.3	93.3	153	303	740	1183	2362	
1800	2.86	8.57	14.3	15.7	32.8	80.0	131	260	634	1014	2025	3798
1750	2.78	8.33	13.9	15.3	31.9	77.7	128	253	616	986	1969	3693
1450	2.30	6.90	11.5	12.7	26.5	64.4	106	209	511	817	1631	3060
1170	1.86	5.57	9.28	10.2	21.3	52.0	85.4	169	412	659	1316	2469
1000	1.59	4.76	7.93	8.73	18.2	44.4	73.0	144	352	563	1125	2110
870	1.38	4.14	6.90	7.59	15.9	38.7	63.5	126	306	490	979	1836
720	1.14	3.43	5.71	6.28	13.1	32.0	52.6	104	254	406	810	1519
650	1.03	3.09	5.16	5.67	11.9	28.9	47.4	93.9	229	366	731	1372
580	0.920	2.76	4.60	5.06	10.6	25.8	42.3	83.7	204	327	652	1224
520	0.825	2.48	4.13	4.54	9.49	23.1	38.0	75.1	183	293	585	1097
420	0.666	2.00	3.33	3.67	7.66	18.7	30.7	60.6	148	237	472	886
350	0.555	1.67	2.78	3.05	6.39	15.5	25.5	50.5	123	197	394	739
280	0.444	1.33	2.22	2.44	5.11	12.4	20.4	40.4	98.6	158	315	591
230	0.365	1.09	1.82	2.01	4.20	10.2	16.8	33.2	81.0	130	259	485
190	0.301	0.904	1.51	1.66	3.47	8.44	13.9	27.4	66.9	107	214	401
155	0.246	0.738	1.23	1.35	2.83	6.89	11.3	22.4	54.6	87.3	174	327
125	0.198	0.595	0.992	1.09	2.28	5.55	9.12	18.0	44.0	70.4	141	264
100	0.159	0.476	0.793	0.873	1.82	4.44	7.30	14.4	35.2	56.3	112	211
84	0.133	0.400	0.666	0.733	1.53	3.73	6.13	12.1	29.6	47.3	94.5	177
68	0.108	0.324	0.539	0.593	1.24	3.02	4.96	9.82	24.0	38.3	76.5	143
56	0.089	0.267	0.444	0.489	1.02	2.49	4.09	8.09	19.7	31.5	63.0	118
45	0.071	0.214	0.357	0.393	0.821	2.00	3.28	6.50	15.9	25.3	50.6	95.0
37	0.059	0.176	0.294	0.323	0.675	1.64	2.70	5.34	13.0	20.8	41.6	78.1
30	0.048	0.143	0.238	0.262	0.547	1.33	2.19	4.33	10.6	16.9	33.7	63.3
25	0.040	0.119	0.198	0.218	0.456	1.11	1.82	3.61	8.81	14.1	28.1	52.8
20	0.032	0.095	0.159	0.175	0.365	0.889	1.46	2.89	7.04	11.3	22.5	42.2
16.5	0.026	0.079	0.131	0.144	0.301	0.733	1.20	2.38	5.81	9.29	18.6	34.8
13.5	0.021	0.064	0.107	0.118	0.246	0.600	0.985	1.95	4.76	7.60	15.2	28.5
11	0.017	0.052	0.087	0.096	0.201	0.489	0.803	1.59	3.87	6.20	12.4	23.2
9	0.014	0.043	0.071	0.079	0.164	0.400	0.657	1.30	3.17	5.07	10.1	19.0
7.5	0.012	0.036	0.060	0.065	0.137	0.333	0.547	1.08	2.64	4.22	8.44	15.8
5	0.0079	0.024	0.040	0.044	0.091	0.222	0.365	0.722	1.76	2.82	5.62	10.6

Service Factors

TABLE 4 — Flexible Coupling Service Factors for Motor ♦ and Turbine Drives

Service factors listed are typical values based on normal operation of the drive systems.

Alphabetical listing of applications

Service Factor	Service Factor
AERATOR2.0	HAMMERMILL1.75
AGITATORS	LAUNDRY WASHER OR TUMBLER2.0
Vertical and Horizontal	LINE SHAFTS
Screw, Propeller, Paddle1.0	Any Processing Machinery1.5
BARGE HAUL PULLER1.5	MACHINE TOOLS
BLOWERS	Auxiliary and Traverse Drive1.0
Centrifugal1.0	Bending Roll, Notching Press, Punch Press, Planer, Plate
Lobe or Vane1.25	Reversing1.75
CAR DUMPERS2.5	Main Drive1.5
CAR PULLERS1.5	MAN LIFTSNot Approved
CLARIFIER OR CLASSIFIER1.0	METAL FORMING MACHINES
COMPRESSORS	Continuous Caster1.75
Centrifugal1.0	Draw Bench Carriage and Main Drive2.0
Rotary, Lobe or Vane1.25	Extruder2.0
Rotary, Screw1.0	Farming Machine and Forming Mills2.0
Reciprocating	Slitters1.0
Direct ConnectedRefer to Factory	Wire Drawing or Flattening1.75
Without FlywheelRefer to Factory	Wire Winder1.5
*With Flywheel and Gear between Compressor and Prime Mover	Coilers and Uncoilers1.5
1 cylinder, single acting3.0	MIXERS (see Agitators)
1 cylinder, double acting3.0	Concrete1.75
2 cylinders, single acting3.0	Muller1.5
2 cylinders, double acting3.0	PRESS, PRINTING1.5
3 cylinders, single acting3.0	PUG MILL1.75
3 cylinders, double acting2.0	PULVERIZERS
4 or more cyl., single act.1.75	Hammermill and Hog1.75
4 or more cyl., double act.1.75	Roller1.5
CONVEYORS	PUMPS
Apron, Assembly, Belt, Chain, Flight, Screw1.0	Boiler Feed1.5
Bucket1.25	Centrifugal —
Live Roll, Shaker and Reciprocating3.0	Constant Speed1.0
CRANES AND HOIST	Frequent Speed Changes under Load1.25
Main Hoist1.75▲	Descaling, with accumulators1.25
Skip Hoist1.75▲	Gear, Rotary, or Vane1.25
Slope1.5	Reciprocating, Plunger Piston
Bridge, Travel or Trolley1.75	1 cyl., single or double act.3.0
DYNAMOMETER1.0	2 cyl., single acting2.0
ELEVATORS	2 cyl., double acting1.75
Bucket, Centrifugal Discharge1.25	3 or more cylinders1.5
Freight or PassengerNot Approved	Screw Pump, Progressing Cavity1.25
Gravity Discharge1.25	Vacuum Pump1.25
ESCALATORSNot Approved	SCREENS
EXCITER, GENERATOR1.0	Air Washing1.0
EXTRUDER, PLASTIC1.5	Grizzly2.0
FANS	Rotary Coal or Sand1.5
Centrifugal1.0	Vibrating2.5
Cooling Tower2.0	Water1.0
Forced Draft — Across the Line start1.5	SKI TOWS & LIFTSNot Approved
Forced Draft Motor	STEERING GEAR1.0
Driven thru fluid or electric slip clutch1.0	STOKER1.0
Gas Recirculating1.5	TIRE SHREDDER1.50
Induced Draft with damper control or blade cleaner1.25	TUMBLING BARREL1.75
Induced Draft without controls2.0	WINCH, MANEUVERING
FEEDERS	Dredge, Marine1.5
Apron, Belt, Disc, Screw1.0	WINDLASS1.5
Reciprocating2.5	WOODWORKING MACHINERY1.0
GENERATORS	WORK LIFT PLATFORMSNot Approved
Even Load1.0	
Hoist or Railway Service1.5	
Welder Load2.0	

♦ For engine drives, refer to Table 5. Electric motors, generators, engines, compressors and other machines fitted with sleeves or straight roller bearings usually require limited end float couplings. If in doubt, provide axial clearances and centering forces to the Factory for a recommendation.

* For balanced opposed design, refer to the Factory.

▲ If people are occasionally transported, refer to the Factory for the selection of the proper size coupling.

♣ For high peak load applications (such as Metal Rolling Mills) refer to the Factory.

TABLE 5 — Engine Drive Service Factors ▼

Service Factors for engine drives are those required for applications where good flywheel regulation prevents torque fluctuations greater than $\pm 20\%$. For drives where torque fluctuations are greater or where the operation is near a serious critical or torsional vibration, a mass elastic study is necessary.

No. of Cylinders	4 or 5 ▼					6 or more ▼				
Table 4 S.F.	1.0	1.25	1.5	1.75	2.0	1.0	1.25	1.5	1.75	2.0
Engine S.F.	2.0	2.25	2.5	2.75	3.0	1.5	1.75	2.0	2.25	2.5

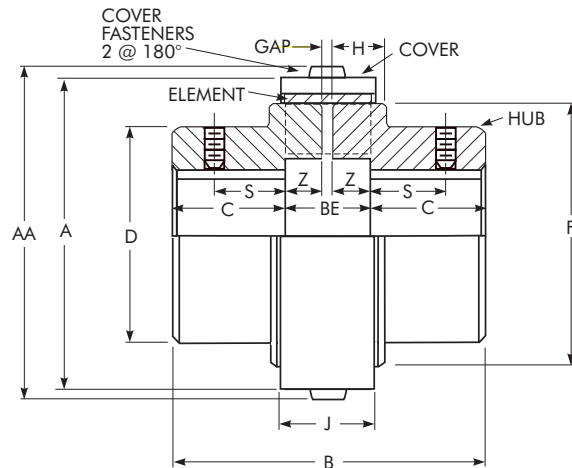
▼ To use Table 5, first determine application service factor from Table 4. Use that factor to determine ENGINE Service Factor from Table 5. When service factor from Table 4 is greater than 2.0, or where 1, 2, or 3 cylinder engines are involved, refer complete application details to Rexnord Engineering.

Alphabetical listing of industries

Service Factor	Service Factor
AGGREGATE PROCESSING, CEMENT, MINING KILNS; TUBE, ROD AND BALL MILLS	Shear, CroppersRefer to Factory
Direct or on L.S. shaft of Reducer, with final drive	Sideguards3.0
Machined Spur Gears2.0	Skelp MillsRefer to Factory
Single Helical or Herringbone Gears1.75	Slitters, Steel Mill only1.75
Conveyors, Feeders, Screens, ElevatorsSee General Listing	Soaking Pit Cover Drives —
Crushers, Ore or Stone2.5	Lift1.0
Dryer, Rotary1.75	Travel2.0
Grizzly2.0	Straighteners (Billet Bundle Busters)2.0
Hammermill or Hog1.75	Wire Drawing Machinery1.75
Tumbling Mill or Barrel1.75	OIL INDUSTRY
BREWING AND DISTILLING	Chiller1.25
Bottle and Can Filling Machines1.0	Oilwell Pumping (not over 150% peak torque)2.0
Brew Kettle1.0	Paraffin Filter Press1.5
Cookers, Continuous Duty1.25	Rotary Kiln2.0
Lauter Tub1.5	PAPER MILLS
Mash Tub1.25	Barker Auxiliary, Hydraulic2.0
Scale Hopper, Frequent Peaks1.75	Barker, Mechanical2.0
CLAY WORKING INDUSTRY	Barking Drum
Brick Press, Briquette Machine, Clay Working Machine, Pug Mill1.75	L.S. shaft of reducer with final drive - Helical or Herringbone Gear2.0
DREDGES	Machined Spur Gear2.5
Cable Reel1.75	Cast Tooth Spur Gear3.0
Conveyors1.25	Beater & Pulper1.75
Cutter head, Jig Drive2.0	Bleachers, Coaters1.0
Maneuvering Winch1.5	Calendar & Super Calendar1.75
Pumps (uniform load)1.5	Chipper2.5
Screen Drive, Stacker1.75	Converting Machine1.25
Utility Winch1.5	Couch1.75
FOOD INDUSTRY	Cutter, Felt Whipper2.0
Beet Slicer1.75	Cylinder1.75
Bottling, Can Filling Machine1.0	Dryer1.75
Cereal Cooker1.25	Felt Stretcher1.25
Dough Mixer, Meat Grinder1.75	Fourdrinier1.75
LUMBER	Jordan2.0
Band Resaw1.5	Log Haul2.0
Circular Resaw, Cut-off1.75	Line Shaft1.5
Edger, Head Rig, Hog2.0	Press1.75
Gang Saw (Reciprocating)Refer to Factory	Pulp Grinder1.75
Log Haul2.0	Reel, Rewinder, Winder1.5
Planer1.75	Stock Chest, Washer, Thickener1.5
Rolls, Non-Reversing1.25	Stock Pumps, Centrifugal Constant Speed1.0
Rolls, Reversing2.0	Frequent Speed Changes Under Load1.25
Sawdust Conveyor1.25	Suction Roll1.75
Slab Conveyor1.75	Vacuum Pumps1.25
Sorting Table1.5	RUBBER INDUSTRY
Trimmer1.75	Calendar2.0
METAL ROLLING MILLS	Cracker, Plasticator2.5
Coilers (Up or Down) Cold Mills only1.5	Extruder1.75
Coilers (Up or Down) Hot Mills only2.0	Intensive or Banbury Mixer2.5
Coke Plants	Mixing Mill, Refiner or Sheeter
Pusher Ram Drive2.5	One or two in line2.5
Door Opener2.0	Three or four in line2.0
Pusher or Larry Car	Five or more in line1.75
Traction Drive3.0	Tire Building Machine2.5
Continuous Caster1.75	Tire & Tube Press Opener (Peak Torque)1.0
Cold Mills —	Tuber, Strainer, Pelletizer1.75
Strip MillsRefer to Factory	Warming Mill
Temper MillsRefer to Factory	One or two Mills in line2.0
Cooling Beds1.5	Three or more Mills in line1.75
Drawbench2.0	Washer2.5
Feed Rolls - Blooming Mills3.0	SEWAGE DISPOSAL EQUIPMENT
Furnace Pushers2.0	Bar Screen, Chemical Feeders, Collectors, Dewatering Screen, Grit Collector1.0
Hot and Cold Saws2.0	SUGAR INDUSTRY
Hot Mills —	Cane Carrier & Leveler1.75
Strip or Sheet MillsRefer to Factory	Cane Knife & Crusher2.0
Reversing BloomingRefer to Factory	Mill Stands, Turbine Driver
or Slabbing MillsRefer to Factory	With all helical or Herringbone gears1.5
Edger DrivesRefer to Factory	Electric Drive or Steam Engine Drive with Helical, Herringbone, or Spur Gears with any Prime Mover1.75
Ingot Cars2.0	TEXTILE INDUSTRY
Manipulators3.0	Batcher1.25
Merchant MillsRefer to Factory	Calendar, Card Machine1.5
Mill Tables	Cloth Finishing Machine1.5
Roughing Breakdown Mills3.0	Dry Can, Loom1.5
Hot Bed or Transfer, non-reversing1.5	Dyeing Machinery1.25
Runout, reversing3.0	Knitting MachineRefer to Factory
Runout, non-reversing, non-plugging2.0	Mangle, Napper, Soaper1.25
Reel Drives1.75	Spinner, Tenter Frame, Winder1.5
Rod MillsRefer to Factory	
Screwdown2.0	
Seamless Tube Mills	
Piercer3.0	
Thrust Block2.0	
Tube Conveyor Rolls2.0	
Reeler2.0	
Kick Out2.0	

Type R10

Close Coupled Coupling/Dimensions — Inches



CPLG SIZE ★	DIMENSIONS – INCHES																				
	Torque Rating lb-in	Allow Speed rpm	Max Bore †	Cplg Wt - lb ‡		A		AA		B	BE ■	C	D	F	H	J	S	Z	GAP ■	Cover Fasteners ♦	
						Nylon Cover	Steel Cover ●	Nylon Cover	Steel Cover ●											Nylon Cover	Steel Cover ●
2R	100	4500	.875	.804	.886	1.92	1.93	2.04	2.05	2.22	.65	.79	...	1.53	...	.55	.38	.30	.062	M3	M2
3R	300	4500	1.125	1.69	1.82	2.40	2.40	2.52	2.52	2.70	.73	.98	...	2.00	...	.63	.48	.33	.062	M3	M2
4R	500	4500	1.375	2.57	2.77	2.78	2.80	2.94	2.96	3.13	.77	1.18	...	2.28	...	.67	.58	.35	.062	M4	M2.5
5R	550	4500	1.625	2.96	3.27	3.01	3.01	3.17	3.17	2.83	.78	1.02	2.36	2.52	.59	.91	.63	.35	.078	M4	M2.5
10R	1,150	4500	1.875	5.48	5.98	3.56	3.56	3.72	3.72	3.62	.94	1.34	2.84	2.99	.75	1.10	.88	.43	.078	M4	M2.5
20R	2,800	4500	2.375	12.4	13.4	4.96	4.88	5.20	5.12	4.80	1.26	1.77	3.62	4.02	.98	1.46	1.00	.59	.078	M6	M4
30R	4,600	4500	2.875	20.7	22.1	5.77	5.63	6.01	5.87	5.98	1.42	2.28	4.13	4.65	1.14	1.65	1.25	.67	.078	M6	M4
40R	9,100	3600	3.375	37.6	39.8	7.17	6.97	7.48	7.28	7.13	1.85	2.64	5.12	5.91	1.34	2.15	1.63	.83	.188	M8	M5
50R	22,200	3000	4.125	78.8	82.9	9.09	8.82	9.41	9.13	8.46	2.39	3.03	7.01	7.48	1.81	2.74	1.75	1.10	.188	M8	M5
60R	35,500	2500	5.250	...	146	...	10.51	...	10.94	10.84	2.97	3.94	8.25	8.98	2.37	2.64	...	1.39	.188	M10	M6
70R	70,900	2100	6.125	...	244	...	12.20	...	12.64	12.76	3.31	4.72	9.88	10.63	2.74	2.95	...	1.56	.188	M10	M6
80R	133,000	1800	7.250	...	365	...	14.57	...	15.00	14.84	3.82	5.51	10.63	12.91	3.28	3.35	...	1.79	.250	M10	M6

★ Wrapflex is a metric product. Metric to inch conversions may not be direct. Dimensions are for reference only and are subject to change without notice unless certified.

† AGMA Class 1 clearance fit bores are standard for Sizes 2R thru 50R, with two setscrews (one over keyway & one at 90°). Interference fit bores and no setscrews are standard for Sizes 60R thru 80R. Long hubs and interference fits are available and recommended when at or near maximum bore and: a) Number of start/stop cycles exceeds 10 per hour; or b) Application service factor = 2.0 or higher.

‡ Coupling assembly weight is based on "no bore" hubs. For coupling assembly weight and bored hubs, subtract the following value for each hub: $(0.20)(\text{Bore})^2(C)$ lb. Bore in "inches".

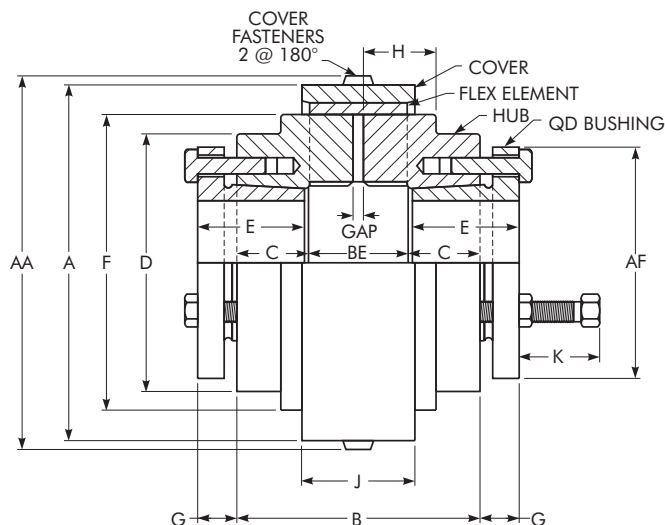
• Nylon cover is standard on Sizes 2R thru 50R, with an epoxy-coated steel cover as an option. Epoxy-coated steel cover is standard on Sizes 60R thru 80R, with no option for nylon cover.

■ "BE" = Standard "Distance Between Shaft Ends" with hubs mounted flush to the shaft ends. "GAP" = Minimum allowable "Distance Between Shaft Ends". Any shaft end spacing between the "GAP" and "BE" dimensions is acceptable. However, if utilizing a shaft end spacing less than the "BE" dimension, the key should not extend beyond the hub face in order to prevent potential interference with the flex element.

♦ Cover fasteners are stainless steel, socket button head capscrews, per ISO 7380-A2. Two capscrews per coupling assembly.

Type R10

QD Bushings/Dimensions — Inches



COUPLING SIZE	Bushing Size	Torque Rating ★	HP per 100 rpm	Max RPM	Max Bore ★	Min Bore ★	Coupling Weight without Bushing		Gap	BE
		lb-in					Nylon Cover – lb	Steel Cover – lb		
5R	JA	550	.87	4500	1.250	.500	2.13	2.43	.078	.78
10R	JA	1,150	1.82	4500	1.250	.500	3.49	3.99	.078	.94
20R	SD	2,800	4.44	4500	1.938	.500	6.73	7.78	.078	1.26
30R	SD	4,600	7.30	4500	1.938	.500	10.2	11.6	.078	1.42
40R	SF	9,100	14.4	3600	2.938	.500	17.0	19.2	.188	1.84
50R	E	22,200	35.2	3000	3.500	.875	38.6	42.7	.188	2.39
60R	J	35,500	56.3	2500	4.500	1.438	NA	86.3	.188	2.96
70R	J	70,900	112	2100	4.500	1.438	NA	142	.188	3.31
80R	M†	133,000	211	1800	5.500	1.938	NA	254	.250	3.82

COUPLING SIZE	Cover Fasteners •		Bushing Fasteners • Inch Hardware	AA – Nylon Cover	AA – Steel Cover	A – Nylon Cover	A – Steel Cover	AF ★	B
	Size	Hex Tool							
5R	M4	M2.5	#10-24 x 1.00	3.17	3.17	3.01	3.01	2.00	2.83
10R	M4	M2.5	#10-24 x 1.00	3.72	3.72	3.56	3.56	2.00	2.99
20R	M6	M4	1/4-20 x 1.00	5.20	5.12	4.96	4.88	3.19	3.78
30R	M6	M4	1/4-20 x 1.00	6.01	5.87	5.77	5.63	3.19	3.94
40R	M8	M5	3/8-16 x 1.25	7.48	7.28	7.17	6.97	4.63	4.52
50R	M8	M5	1/2-13 x 1.75	9.41	9.13	9.09	8.82	6.00	5.70
60R	M10	M6	5/8-11 x 2.50	...	10.94	...	10.51	7.25	9.34
70R	M10	M6	5/8-11 x 2.50	...	12.64	...	12.20	7.25	9.69
80R	M10	M6	3/4-10 x 3.00	...	15.00	...	14.57	9.13	14.22

COUPLING SIZE	C	D	E ★	F	G ★	H	J– Nylon Cover	J – Steel Cover	K – Clearance
5R	1.02	2.36	1.00	2.520	.44	.59	.91	.91	1.16
10R	1.02	2.84	1.00	2.992	.44	.75	1.10	1.10	1.16
20R	1.26	3.62	1.81	4.016	.56	.98	1.46	1.46	1.19
30R	1.26	4.13	1.81	4.646	.56	1.14	1.65	1.64	1.19
40R	1.34	5.12	2.00	5.906	.84	1.34	2.15	2.09	1.50
50R	1.65	7.01	2.63	7.480	1.13	1.81	2.74	2.65	2.13
60R	3.19	8.25	4.50	8.976	1.50	2.37	...	2.64	2.94
70R	3.19	9.88	4.50	10.630	1.50	2.74	...	2.95	2.94
80R	5.20	10.63	6.75	12.913	1.66	3.28	...	3.35	3.50

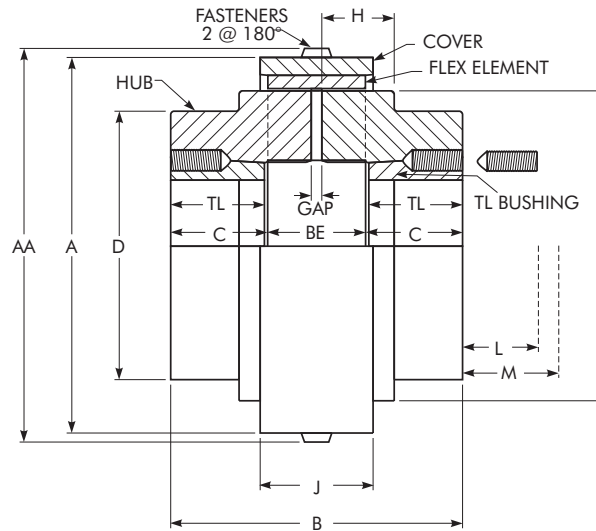
★ Typical – refer to bushing manufacturer for exceptions and Service Factor limitations.

† 80R requires a special "M" bushing, manufactured for "reverse" mounting. Consult bushing manufacturer.

• Cover Fasteners are ISO 7380, Stainless Steel, Socket Button Head Cap Screws. Bushing fasteners are SAE Grade 5 (inch) or ISO 8.8 (metric), Hex Head Cap Screws.

Type R10

Taper-Lock Bushings/Dimensions — Inches



COUPLING SIZE	Bushing Size	Torque Rating ★	HP Per 100 rpm	Max RPM	Max Bore ★	Min Bore ★	Coupling Weight w/o Bushing		Gap
							Nylon Cover	Steel Cover	
		lb-in					lb	lb	
5R	1108	550	.87	4500	1.125	.500	1.78	2.08	.078
10R	1210	1,150	1.82	4500	1.250	.500	3.44	3.93	.078
20R	1610	2,800	4.44	4500	1.688	.500	6.86	7.91	.078
30R	2012	4,600	7.30	4500	2.125	.500	10.7	12.1	.078
40R	2517	9,100	14.4	3600	2.688	.500	19.4	21.7	.188
50R	3020	22,200	35.2	3000	3.250	.875	43.7	47.8	.188
60R	4040	35,500	56.3	2500	4.438	1.438	...	92.0	.188
70R	4545	70,900	112	2100	4.938	1.938	...	160	.188
80R	5050	126,000	200	1800	5.313	2.438	...	238	.250

COUPLING SIZE	BE	Cover Fasteners †		A – Nylon Cover	A – Steel Cover	AA – Nylon Cover	AA – Steel Cover	B	C
		Size	Hex Tool						
5R	.78	M4	M2.5	3.01	3.01	3.17	3.17	2.56	.89
10R	.94	M4	M2.5	3.56	3.56	3.72	3.72	3.54	1.30
20R	1.26	M6	M4	4.96	4.88	5.20	5.12	3.86	1.30
30R	1.42	M6	M4	5.77	5.63	6.01	5.87	4.72	1.65
40R	1.84	M8	M5	7.17	6.97	7.48	7.28	5.46	1.81
50R	2.39	M8	M5	9.09	8.82	9.41	9.13	6.72	2.17
60R	2.96	M10	M6	...	10.51	...	10.94	10.84	3.94
70R	3.31	M10	M6	...	12.20	...	12.64	12.37	4.53
80R	3.82	M10	M6	...	14.57	...	15.00	13.90	5.04

COUPLING SIZE	D	F	H	J - Nylon Cover	J - Steel Cover	L ‡		M •		TL
						Standard Hex Key	Short ■ Hex Key	Standard Hex Key	Short ■ Hex Key	
5R	2.36	2.520	.59	.91	.91	1.13	.63	1.25	.75	.875
10R	2.84	2.992	.75	1.10	1.10	1.38	.81	1.63	1.06	1.000
20R	3.62	4.016	.98	1.46	1.46	1.38	.81	1.63	1.06	1.000
30R	4.13	4.646	1.14	1.65	1.64	1.56	.94	2.00	1.38	1.250
40R	5.12	5.906	1.34	2.15	2.09	1.63	1.00	2.25	1.63	1.750
50R	7.01	7.480	1.81	2.74	2.65	1.81	1.19	2.69	2.06	2.000
60R	8.25	8.976	2.37	...	2.64	2.38	1.63	4.13	3.38	4.000
70R	9.88	10.630	2.74	...	2.95	2.63	1.94	4.75	4.06	4.500
80R	10.63	12.913	3.28	...	3.35	2.81	2.31	5.25	4.81	5.000

★ Typical – refer to bushing manufacturer for exceptions and Service Factor limitations.

† Cover Fasteners are ISO 7380, Stainless Steel, Socket Button Head Cap Screws.

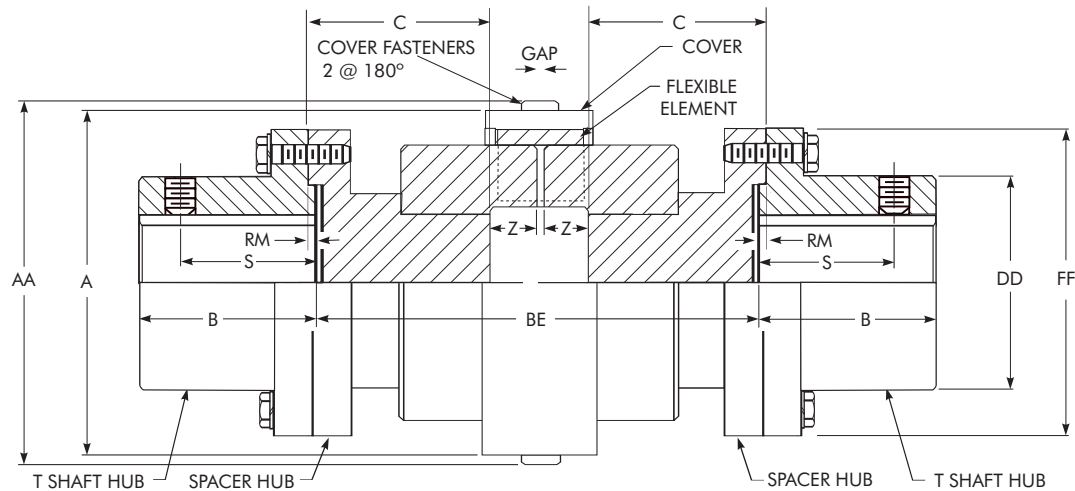
‡ Space required to tighten bushing. Also, space required to loosen screws to permit removal of hub by puller.

• Space required to remove bushing using jackscrews – no puller required.

■ Standard hex key cut to minimum useable length.

Type R31

Full Spacer Coupling/Dimensions — Inches



NOTE: Distance Between Shaft Ends (BE) = 2(C) + 2(Z) + Gap - 2(RM)
SPACER DIMENSIONS — INCHES

SIZE ★	NOTE: Distance Between Shaft Ends (BE) = 2(C) + 2(Z) + Gap – 2(RM)																						
	SPACER DIMENSIONS — INCHES																						
	Torque Rating lb-in	Allow Speed rpm	Max Bore ◆	Cplg Wt No Bore — lb		BE		A		AA		B	DD	FF	RM	S	Z	Gap	Cover Fasteners •		Flange Fasteners ■		T Shaft Hub
				At Min lb	BE lb	Per Added BE lb/in	Min	Max	Nylon Cover	Steel Cover †	Nylon Cover								Steel Cover †	Size	Allen Wrench Tool	Size	
5R	550	4500	1.375	8.0	.79	3.19	9.25	3.01	3.01	3.17	3.17	1.38	2.06	3.39	.05	1.080	.35	.078	M4	M2.5	M6	4	1020T
10R	1,150	4500	1.625	11.0	.86	3.50	10.00	3.56	3.56	3.72	3.72	1.63	2.34	3.70	.05	1.240	.43	.078	M4	M2.5	M6	8	1030T
20R	2,800	4500	2.125	21.0	1.49	3.50	10.00	4.96	4.88	5.20	5.12	2.13	3.09	4.45	.05	1.080	.59	.078	M6	M4	M6	8	1040T
30R	4,600	4500	2.375	31.0	1.88	4.38	10.00	5.77	5.63	6.01	5.87	2.38	3.44	4.96	.05	1.600	.67	.078	M6	M4	M8	8	1050T
40R	9,100	3600	3.125	57.0	2.23	5.00	12.25	7.17	6.97	7.48	7.28	3.13	4.31	6.02	.05	1.840	.83	.188	M8	M5	M10	12	1070T
50R	22,200	3000	3.500	100.0	3.31	6.50	12.25	9.09	8.82	9.41	9.13	3.50	4.81	7.01	.05	1.960	1.10	.188	M8	M5	M12	12	1080T
60R	35,500	2500	4.000	160.0	4.57	7.87	12.25	...	10.51	...	10.94	4.00	5.63	8.27	.05	...	1.39	.188	M10	M6	M16	12	1090T
70R	70,900	2100	4.750	225.0	6.59	8.80	14.70	...	12.20	...	12.64	3.56	6.75	9.88	.06	...	1.56	.188	M10	M6	M20	12	1100T
70R	70,900	2100	5.500	265.0	6.59	8.80	14.70	...	12.20	...	12.64	4.10	7.75	10.88	.06	...	1.56	.188	M10	M6	M20	12	1110T
80R	133,000	1800	6.250	415.0	8.10	9.85	16.69	...	14.57	...	15.00	4.70	8.88	12.56	.06	...	1.79	.250	M10	M6	M24	12	1120T
80R	133,000	1800	7.000	505.0	13.60	10.07	16.69	...	14.57	...	15.00	5.30	9.38	13.63	.06	...	1.79	.250	M10	M6	M27	12	1130T

★ Wrapflex is a metric product. Metric to inch conversions may not be direct. Dimensions are for reference only and are subject to change without notice unless certified.

† 5R-50R nylon cover is standard & epoxy coated steel cover is optional. 60R-80R epoxy coated steel cover is standard (nylon cover not available.)

• Cover Fasteners are ISO 7380 Stainless Steel Socket Button Head Cap Screws. Two cover fasteners per coupling.

■ Flange Fasteners are ISO Grade 10.9 hex head cap screws for 5R-50R and ISO Grade 8.8 hex head cap screws for 60R.

♦ Maximum Inch Bore listed is for a standard square key. Larger bores, with a rectangular key, are available. Sizes 5R-50R are standard clearance fit with setscrew over keyway. Size 60R is standard interference fit with keyway, but no setscrew. For interference fit with setscrew over keyway, refer to 427-105.

TABLE 6 — Taper-Lock® Bushings for
T Shaft Hubs

CPLG SIZE	T Shaft Hub	Assembly Torque Rating	HP per 100 rpm	Allow Speed	Bore Range	Bushings Size
		lb-in				
5R	1020T	550	.87	4500	.500-1.125	1108
10R	1030T	1,150	1.82	4500	.500-1.125	1108
20R	1040T	2,800	4.44	4500	.500-1.375	1310
30R	1050T	4,300	6.82	4500	.500-1.625	1615
40R	1070T	9,100	14.4	3600	.750-2.500	2525
50R	1080T	11,300	17.9	3000	.750-2.500	2525
60R	1090T	24,000	38.1	2500	.938-3.000	3030
70R	1100T	24,000	38.1	2100	.938-3.000	3030
70R	1110T	44,000	71.1	2100	1.19-3.500	3535
80R	1120T	77,300	122	1800	1.44-4.000	4040
80R	1130T	110,000	174	1800	1.94-4.500	4545

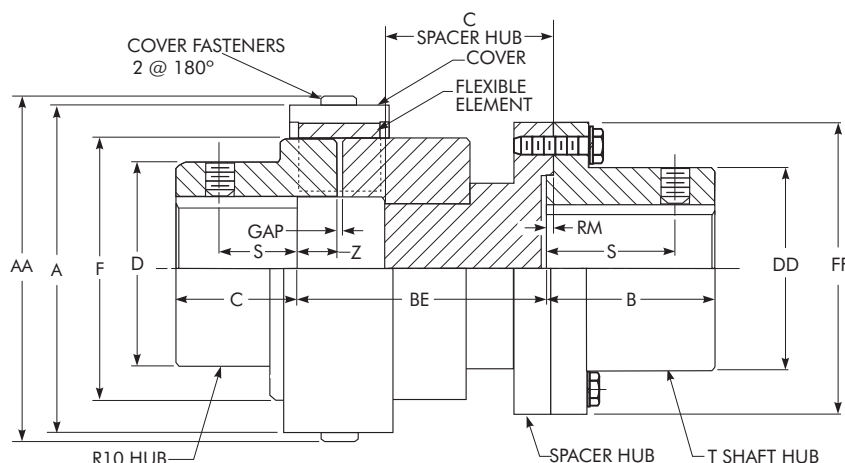
TABLE 7 — Type R31 Standard Spacer Lengths —
Inches

CPLG SIZE	BE Lengths (Distance Between Shaft Ends)					
	3.50	4.38	5.00	7.25	9.75	10.00
5R	X	X	X	...	...	...
10R	X	X	X	X	...	...
20R	X	X	X	X	...	...
30R	...	X	X	X	...	...
40R	...	...	X	X	X	...
50R	...	...	...	X	X	X
60R	...	...	...	...	X	...

Other BE lengths available. Refer to the Factory.

Type R35

Half Spacer Coupling/Dimensions — Inches



NOTE: Distance Between Shaft Ends (BE) = (C)_{Spacer Hub} + 2(Z) + Gap – RM

SPACER DIMENSIONS — INCHES

SIZE ★	Torque Rating lb-in	Allow Speed rpm	Max Bore ♦		Cplg Wt No Bore – lb		BE		A		AA		B	C R10 Hub	D	DD	F	FF	RM	S		Z	Gap	Cover Fasteners ●		Flange Fasteners ■		T Shaft Hub
			T Shaft Hub	R10 Hub	At Min BE lb	Per Added BE lb/in	Min	Max	Nylon Cover	Steel Cover †	Nylon Cover	Steel Cover †								Shaft Hub *	R10 Hub *			Size	Allen Wrench Tool	Size	No. Per Flange	
5R	550	4500	1.375	1.625	5.61	.79	1.99	5.00	3.01	3.01	3.17	3.17	1.38	1.02	2.36	2.06	2.52	3.39	.05	1.08	.63	.35	.078	M4	M2.5	M6	4	1020T
10R	1,150	4500	1.625	1.875	8.73	.86	2.35	5.51	3.56	3.56	3.72	3.72	1.63	1.34	2.84	2.34	2.99	3.70	.05	1.24	.88	.43	.078	M4	M2.5	M6	8	1030T
20R	2,800	4500	2.125	2.375	18.6	1.49	3.01	5.51	4.96	4.88	5.20	5.12	2.13	1.77	3.62	3.09	4.02	4.45	.05	1.08	1.00	.59	.078	M6	M4	M6	8	1040T
30R	4,600	4500	2.375	2.875	28.4	1.88	3.45	5.75	5.77	5.63	6.01	5.87	2.38	2.28	4.13	3.44	4.65	4.96	.05	1.60	1.25	.67	.078	M6	M4	M8	8	1050T
40R	9,100	3600	3.125	3.375	49.4	2.23	3.49	7.25	7.17	6.97	7.48	7.28	3.13	2.64	5.12	4.31	5.91	6.02	.05	1.84	1.63	.83	.188	M8	M5	M10	12	1070T
50R	22,200	3000	3.500	4.125	90.0	3.31	4.45	7.25	9.09	8.82	9.41	9.13	3.50	3.03	7.01	4.81	7.48	7.01	.05	1.96	1.75	1.10	.188	M8	M5	M12	12	1080T
60R	35,550	2500	4.000	5.250	152	4.57	5.42	8.00	...	10.51	...	10.94	4.00	3.94	8.25	5.63	8.98	8.27	.05	...	...	1.39	.188	M10	M6	M16	12	1090T
70R	70,900	2100	4.750	6.125	234	6.55	6.06	9.01	...	12.20	...	12.64	3.56	4.72	9.88	6.75	10.63	9.88	.06	...	...	1.56	.197	M10	M6	M20	12	1100T
70R	70,900	2100	5.510	6.125	254	6.55	6.06	9.01	...	12.20	...	12.64	4.10	4.72	9.88	7.75	10.63	10.88	.06	...	...	1.56	.197	M10	M6	M20	12	1110T
80R	133,000	1800	6.250	7.250	390	8.04	6.80	10.22	...	14.57	...	15.00	4.70	5.51	10.63	8.88	12.91	12.56	.06	...	...	1.79	.236	M10	M6	M24	12	1120T
80R	133,000	1800	7.000	7.250	425	13.44	6.91	10.22	...	14.57	...	15.00	5.30	5.51	10.63	9.37	12.91	13.62	.06	...	...	1.79	.236	M10	M6	M27	12	1130T

★ IMPORTANT: Upon removal of spacer hub, working clearance available for equipment removal = "BE" – "Z".

Wrapflex is a metric product. Metric to inch conversions may not be direct. Dimensions are for reference and are subject to change without notice unless certified.

† 5R-50R nylon cover is standard & epoxy coated steel cover is optional. 60R-80R epoxy coated steel cover is standard (nylon cover not available).

● Cover Fasteners are ISO 7380 Stainless Steel Socket Button Head Cap Screws. Two cover fasteners per coupling.

■ Flange Fasteners are ISO Grade 10.9 hex head cap screws for 5R-50R, and ISO Grade 8.8 hex head cap screws for 60R-80R.

♦ For R10 hubs see Page 8 for "Max Bore Protuded Shaft" along with the footnote. Maximum Inch Bore listed is for a standard square key. For T shaft hubs only, larger inch bores with a rectangular key are available. Sizes 5R-50R are standard clearance fit with setscrew(s) over keyway. Sizes 60R - 80R are standard interference fit with keyway, but no setscrew. For interference fit with setscrew over keyway, refer to 427-105. For R10 hubs at the Max Bore condition, limit the number of start/stop cycles to 10 per hour unless long hubs are used.

* Standard for T shaft hub is one setscrew over keyway; standard for R10 hub is two setscrews (one over keyway and one at 90° from keyway), Sizes 5-50R.

TABLE 8 — R35 Standard Spacer Lengths

Size	BE	Z	Usable Clearance Gap
5R	2.143	.35	1.793
	2.362	.35	2.012
	2.581	.35	2.231
	2.893	.35	2.543
	3.500	.35	3.150
10R	2.004	.43	1.574
	2.441	.43	2.011
	2.660	.43	2.230
	2.973	.43	2.543
	3.228	.43	2.798
	3.500	.43	3.070
	3.937	.43	3.507
20R	4.098	.43	3.668
	1.775	.59	1.185
	2.070	.59	1.480
	2.510	.59	1.920
	2.986	.59	2.396
	3.130	.59	2.540
	3.386	.59	2.796
	3.500	.59	2.910
	3.937	.59	3.347
	4.255	.59	3.665

TABLE 8 — R35 Standard Spacer Lengths

Size	BE	Z	Usable Clearance Gap
30R	2.332	.67	1.662
	2.952	.67	2.282
	3.464	.67	2.794
	4.333	.67	3.663
	5.000	.67	4.330
40R	3.425	.83	2.595
	3.681	.83	2.851
	4.468	.83	3.638
	4.550	.83	3.720
	5.000	.83	4.170
	5.800	.83	4.970
50R	4.745	1.10	3.645
	4.826	1.10	3.726
	6.076	1.10	4.976
	6.201	1.10	5.101
60R	6.359	1.39	4.969

Other BE lengths available. Refer to the Factory.

Taper-Lock bushing for R10 hub, see Page 10.

QD bushing for R10 hub, see Page 9.

Taper-Lock bushing for T shaft hub, see Table 6, Page 11.

Engineering Data

TABLE 9 — Recommended Bores for Steel Hubs — Inches

Shaft Dia	Clearance Fit		Interference Fit		Shaft Dia	Clearance Fit		Interference Fit		Shaft Dia	Clearance Fit		Interference Fit		Shaft Dia	Interference Fit	
	Hub Bore	Clearance	Hub Bore	Interference		Hub Bore	Clearance	Hub Bore	Interference		Hub Bore	Clearance	Hub Bore	Interference		Hub Bore	Interference
+ .0000 – .0005	+ .0010 – .0000	.0000 .0015	+ .0005 – .0000	.0000 .0010	+ .0000 – .0010	+ .0015 – .0000	.0000 .0025	+ .0010 – .0000	.0000 .0020	+ .0000 – .0010	+ .0015 – .0000	.0000 .0025	+ .0015 – .0000	.0010 .0035	+ .0000 – .0010	+ .0015 – .0000	.0015 .0040
.5000	.5000		.4990		2.2500	2.2500		2.2480		4.0625	4.0625		4.0590		6.7500	6.7460	
.5625	.5625		.5615		3.3125	2.3125		2.3105		4.1250	4.1250		4.1215		7.0000	6.9960	
.6250	.6250		.6240		2.3750	2.3750		2.3730		4.1875	4.1875		4.1840				
.6875	.6875		.6865		2.4375	2.4375		2.4355		4.2500	4.2500		4.2465		+ .0000 – .0010	+ .0020 – .0000	.0020 .0050
.7500	.7500		.7490		2.5000	2.5000		2.4980		4.3125	4.3125		4.3090		7.2500	7.2450	
.8125	.8125		.8115		2.5625	2.5625		2.5605		4.3750	4.3750		4.3715		7.5000	7.4950	
.8750	.8750		.8740		2.6250	2.6250		2.6230		4.4375	4.4375		4.4340		7.7500	7.7450	
.9375	.9375		.9365		2.6875	2.6875		2.6855		4.5000	4.5000		4.4965		8.0000	7.9950	
1.0000	1.0000		.9990		2.7500	2.7500		2.7480		4.5625	4.5625		4.5590				
1.0625	1.0625		1.0615		2.8125	2.8125		2.8105		4.6250	4.6250		4.6215		8.2500	8.2445	.0025
1.1250	1.1250		1.1240		2.8750	2.8750		2.8730		4.6875	4.6875		4.6840		8.5000	8.4945	.0055
1.1875	1.1875		1.1865		2.9375	2.9375		2.9355		4.7500	4.7500		4.7465		8.7500	8.7445	
1.2500	1.2500		1.2490		3.0000	3.0000		2.9980		4.8125	4.8125		4.8090		9.0000	8.9945	
1.3125	1.3125		1.3115		+ .0000 – .0010	+ .0015 – .0000	.0000 .0025	+ .0010 – .0000	.0005 .0025	4.8750	4.8750		4.8715		9.2500	9.2440	.0030
1.3750	1.3750		1.3740							4.9375	4.9375		4.9340		9.5000	9.4940	.0060
1.4375	1.4375		1.4365							5.0000	5.0000		4.9965		9.7500	9.7440	
1.5000	1.5000		1.4990												10.0000	9.9940	
+ .0000 – .0010	+ .0010 – .0000	.0000 .0020	+ .0005 – .0000	.0005 .0015	3.0625	3.0625		3.0600		5.0625	5.0625		5.0585	.0015 .0040	10.2500	10.2435	.0035
1.5625	1.5625		1.5610		3.1250	3.1250		3.1225		5.1250	5.1250		5.1210		10.5000	10.4935	.0065
1.6250	1.6250		1.6235		3.1875	3.1875		3.1850		5.1875	5.1875		5.1835		10.7500	10.7435	
1.6875	1.6875		1.6860		3.2500	3.2500		3.2475		5.2500	5.2500		5.2460		11.0000	10.9935	
1.7500	1.7500		1.7485		3.3125	3.3125		3.3100		5.3125	5.3125		5.3085				
1.8125	1.8125		1.8110		3.3750	3.3750		3.3725		5.3750	5.3750		5.3710		11.2500	11.2430	.0040
1.8750	1.8750		1.8735		3.4375	3.4375		3.4350		5.4375	5.4375		5.4335		11.5000	11.4930	.0070
1.9375	1.9375		1.9360		3.5000	3.5000		3.4975		5.5000	5.5000		5.4960		11.7500	11.7430	
2.0000	2.0000		1.9985		3.5625	3.5625		3.5600		5.5625	5.5625		5.5585		12.0000	11.9930	
+ .0000 – .0010	+ .0015 – .0000	.0000 .0025	+ .0005 – .0000	.0005 .0015	3.6250	3.6250		3.6225		5.6250	5.6250		5.6210		12.5000	12.4925	.0045
2.0625	2.0625		2.0610		3.6875	3.6875		3.6850		5.6875	5.6875		5.6835		13.0000	12.9925	.0075
2.1250	2.1250		2.1235		3.7500	3.7500		3.7475		5.7500	5.7500		5.7460		13.5000	13.4920	.0050
2.1875	2.1875		2.1860		3.8125	3.8125		3.8100		5.8125	5.8125		5.8085		14.0000	13.9920	.0080
					3.8750	3.8750		3.8725		5.8750	5.8750		5.8710		14.5000	14.4915	.0055
					3.9375	3.9375		3.9350		5.9375	5.9375		5.9335		15.0000	14.9915	.0085
					4.0000	4.0000		3.9975		6.0000	6.0000		5.9960		+ .000 – .001	+ .0025 – .0000	.0055 .0090
										6.2500	6.2500		6.2460		15.5000	15.4910	
										6.5000	6.5000		6.4960		16.0000	15.9910	
															16.5000	16.4905	.0060
															17.0000	16.9905	.0095

★ For shaft diameters larger than 17.000", use an average interference fit of .0005" per inch of shaft diameter within the following bore tolerances:
 + .0025, – .0000 for over 17" to 20" dia. incl.
 + .003, – .000 for over 20" to 30" dia. incl.
 + .004, – .000 for over 30" to 40" dia. incl.
 Tolerances and fits comply with, or are within, AGMA 9002 standard (Class 1 clearance fit).

TABLE 10 — Recommended Keyways for Hubs with One Keyway — Inches

Nominal Bore		Keyway Size ‡	Width Tolerance †
Over	Thru		
.4375	.5625	.125 x .062	+ .0020 – .0000
.5625	.875	.1875 x .094	+ .0020 – .0000
.875	1.250	.250 x .125	+ .0020 – .0000
1.250	1.375	.3125 x .156	+ .0020 – .0000
1.375	1.750	.375 x .188	+ .0025 – .0000
1.750	2.250	.500 x .250	+ .0025 – .0000
2.250	2.750	.625 x .312	+ .0030 – .0000
2.750	3.250	.750 x .375	+ .0030 – .0000
3.250	3.750	.875 x .438	+ .0030 – .0000
3.750	4.500	1.000 x .500	+ .0030 – .0000
4.500	5.500	1.250 x .625	+ .0035 – .0000
5.500	6.500	1.500 x .750	+ .0035 – .0000
6.500	7.500	1.750 x .750	+ .0040 – .0000
7.500	9.000	2.000 x .750	+ .0040 – .0000
9.000	11.000	2.500 x .875	+ .0045 – .0000
11.000	13.000	3.000 x 1.000	+ .0045 – .0000
13.000	15.000	3.500 x 1.250	+ .0050 – .0000
15.000	18.000	4.000 x 1.500	+ .0050 – .0000

† One square key for bore diameters thru 6.500"; one rectangular key for bore diameters over 6.500".

‡ Depth tolerance: + .010" to + .020".

Engineering Data

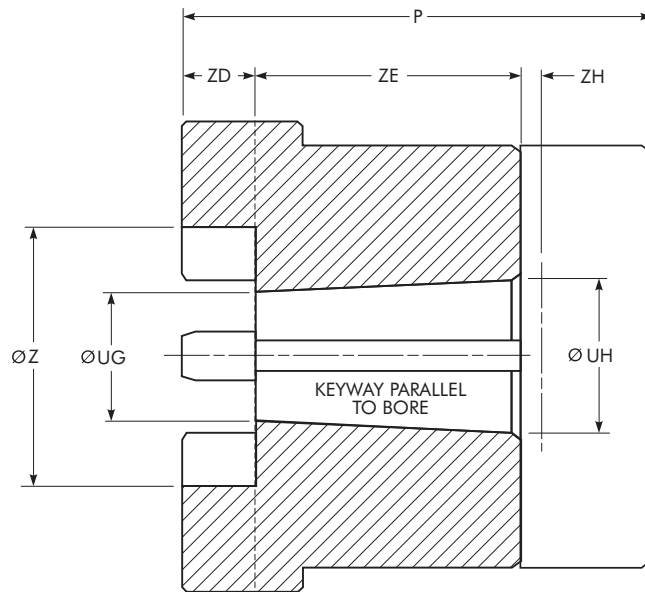


TABLE 11 — Standard AISE AC & DC Mill Motor Coupling Selections

Motor Frame Sizes			Coupling Size	Torque Rating (lb-in)	Ø UG	Ø UH	Ø Z	Keyway	ZD	ZE	ZH + .xxx - .000
2, 602	802 A,B,C	AC 1, 2, 4	40R † 50R	9,100 22,200	1.438	1.750	3.181 4.173	.500 x .250 .500 x .250	0.83 1.10	3.00	.024
603, 604	803, 804	...	50R 60R	22,200 35,500	1.635	2.000	4.173 5.315	.500 x .250 .500 x .250	1.10 1.39	3.50	.029
606	806	AC 8, 12	50R † 60R 70R	22,200 35,550 70,900	2.083	2.500	4.173 5.315 6.299	.500 x .250 .500 x .250 .500 x .250	1.10 1.39 1.56	4.00	.029
608	808	...	60R 70R 80R	35,550 70,900 133,000	2.531	3.000	5.315 6.299 7.480	.750 x .250 .750 x .250 .750 x .250	1.39 1.56 1.79	4.50	.029
610	810	AC 18	70R 80R	70,900 133,000	2.781	3.250	6.299 7.480	.750 x .250 .750 x .250	1.56 1.79	4.50	.034
612	812	AC 25, 30	70R 80R	70,900 133,000	3.104	3.625	6.299 7.480	.750 x .250 .750 x .250	1.56 1.79	5.00	.034
614	814	AC 40, 50	80R	133,000	3.729	4.250	7.480	1.000 x .375	1.79	5.00	.034

† Must use "standard" socket on mill motor nut. "Impact" socket will not fit.

TABLE 12 — Taper & Counter Bore Limitations

Coupling Size	P Max	Ø UG Min	Ø UH Max	Ø Z Max	ZD Max	ZE Min	Keyway ★
5R	2.40	.500	1.500	1.535	.362	.827	.375 x .188
10R	3.11	.500	1.750	1.811	.441	1.000	.375 x .188
20R	4.13	.750	2.250	2.311	.598	1.063	.500 x .250
30R	5.24	1.000	2.500	2.559	.677	1.339	.625 x .313
40R	6.10	1.125	3.125	3.181	.835	1.339	.750 x .375
50R	7.17	1.125	4.125	4.173	1.110	1.811	1.000 x .500
60R	7.29	1.250	5.250	5.315	1.394	2.126	1.250 x .625
70R	8.65	1.500	6.125	6.299	1.571	2.244	1.500 x .750
80R	10.06	1.500	7.250	7.480	1.795	2.618	1.750 x .875

★ Keyway shown is for maximum bore with square key.

TABLE 13 — Type R10 Mill Motor Hubs

Mill Motor Frame Size			R10 Flex Hubs							
			5R	10R	20R	30R	40R	50R	60R	70R
602	802 A, B, C	AC 1, 2 & 4	...	...	...	...	X	X	...	...
603	803		...	...	...	Consult Falk	X	X	...	...
604	804									
606	806	AC 8 & 12	...	...	...	...	X	X	X	...
608	808		...	...	...	...	...	X	X	X
610	810	AC 18	...	...	...	...	...	Consult Falk	X	X
612	812	AC 25 & 50	...	...	...	...	...		...	X
614	814	AC 40 & 50	...	...	...	...	...	...	X	X

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TABLE 14 — Installation & Operating Misalignment Capacity

COUPLING SIZE	Installation Limits		Operating Limits	
	Parallel Offset (Inch)	Angular (Degree)	Parallel Offset (Inch)	Angular (Degree)
2R	.010	0.25	.020	1.00
3R	.010	0.25	.020	1.00
4R	.010	0.25	.020	1.00
5R	.020	0.25	.040	1.00
10R	.020	0.25	.040	1.00
20R	.040	0.25	.080	1.00
30R	.040	0.25	.080	1.00
40R	.040	0.25	.080	1.00
50R	.040	0.25	.080	1.00
60R	.040	0.25	.080	1.00
70R	.040	0.25	.080	1.00
80R	.040	0.25	.080	1.00

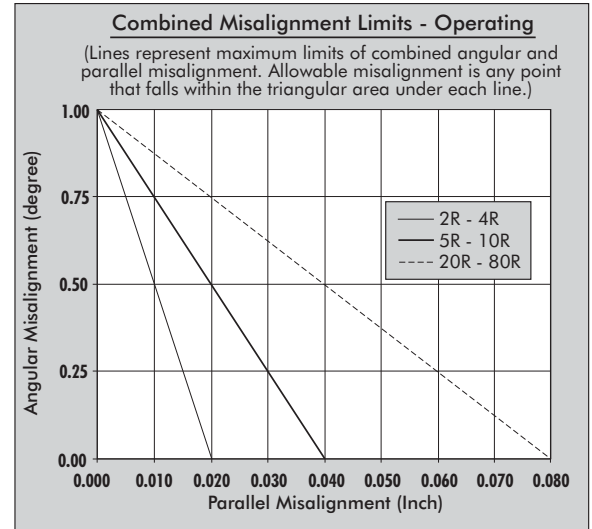


TABLE 15 — Mass & WR²

R10 Mass						
COUPLING SIZE	Element	Nylon Cover	Steel Cover	R10 Hub (No Bore)	Total w/Nylon Cover	Total w/Steel Cover
	lb	lb	lb	lb	lb	lb
2R	0.025	0.018	0.10	0.38	0.80	0.89
3R	0.045	0.027	0.15	0.81	1.69	1.82
4R	0.063	0.042	0.25	1.23	2.57	2.77
5R	0.070	0.068	0.38	1.41	2.96	3.27
10R	0.13	0.11	0.61	2.62	5.48	5.98
20R	0.41	0.28	1.29	5.84	12.4	13.4
30R	0.63	0.37	1.82	9.83	20.7	22.1
40R	1.30	0.86	3.13	17.7	37.6	39.8
50R	2.70	1.70	5.83	37.2	78.8	82.9
60R	4.08	...	7.29	67.1	...	146
70R	6.17	...	10.2	114	...	244
80R	10.2	...	14.6	170	...	365

R10 WR ²						
COUPLING SIZE	Element	Nylon Cover	Steel Cover	R10 Hub (No Bore)	Total w/ Nylon Cover	Total w/ Steel Cover
	lb-in ²	lb-in ²	lb-in ²	lb-in ²	lb-in ²	lb-in ²
2R	0.012	0.015	0.083	0.11	0.25	0.32
3R	0.036	0.036	0.20	0.41	0.89	1.06
4R	0.067	0.072	0.43	0.82	1.78	2.14
5R	0.090	0.14	0.76	1.05	2.33	2.95
10R	0.23	0.32	1.73	2.80	6.15	7.56
20R	1.35	1.57	7.02	10.5	23.9	29.4
30R	2.75	2.80	13.2	23.2	52.0	62.4
40R	8.84	10.1	35.3	65.6	150	175
50R	30.4	31.8	106	245	552	626
60R	67.8	...	188	621	...	1,498
70R	141	...	358	1,500	...	3,499
80R	334	...	740	2,950	...	6,974

R31/R35 WR ² Values ★									
COUPLING SIZE	T31 Shaft Hub	R31 Assembly †				R35 Assembly ‡			
		Min BE (Inch)	WR ² at Min BE (lb-in ²)		WR ² (lb-in ²) per Inch	Min BE (Inch)	WR ² at Min BE (lb-in ²)		WR ² (lb-in ²) per Inch
			Nylon Cover	Steel Cover			Nylon Cover	Steel Cover	
5R	1020	3.19	7.53	8.15	0.351	1.99	4.93	5.55	0.351
10R	1030	3.50	13.6	15.0	0.413	2.35	9.61	11.0	0.413
20R	1040	3.50	39.1	44.8	1.253	3.01	33.0	38.4	1.253
30R	1050	4.38	72.4	82.3	1.980	3.45	65.9	75.8	1.980
40R	1070	5.00	217	243	4.164	3.49	184	209	4.164
50R	1080	6.50	579	654	10.78	4.45	565	640	10.78
60R	1090	7.87	...	1500	20.35	5.42	...	1500	20.35
70R	1100	8.80	...	2970	40.58	6.06	...	3230	40.58
70R	1110	8.80	...	3620	40.58	6.06	...	3550	40.58
80R	1120	9.78	...	7670	61.97	6.80	...	7210	61.97
80R	1130	10.00	...	9610	144.8	6.91	...	8190	144.8

★ WR² values are based on hubs with no bore.

† For R31 Mass, refer to Page 11.

‡ For R35 Mass, refer to Page 12.

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