



KOP-FLEX®
SERIES H PLUS
TECHNICAL DATA



KOP-FLEX[®] SERIES H PLUS

FEATURES AND BENEFITS



High Misalignment Capability

- Crowned hub teeth with flank, tip, and root curvature

Large Bore Capacity

- Accommodates large shaft diameters without increasing coupling size

High Torque Ratings

- Increased tooth pitch diameter allows more torque with the same flange size

Versatile

- Half-for-half interchangeable with competitive AGMA coupling designs

Lubrication

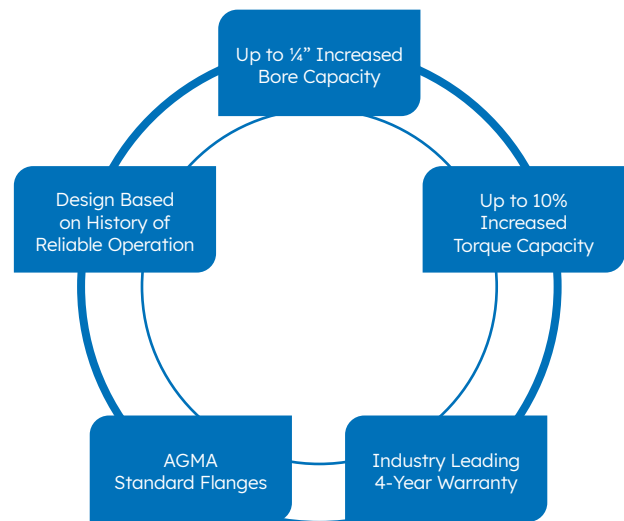
- Lube ports moved to sleeve body, closer to gear mesh
- Buna-N O-ring to retain grease and protect against contamination
- KHP coupling grease is recommended in order to obtain maximum operating life.

Center Flange Bolting

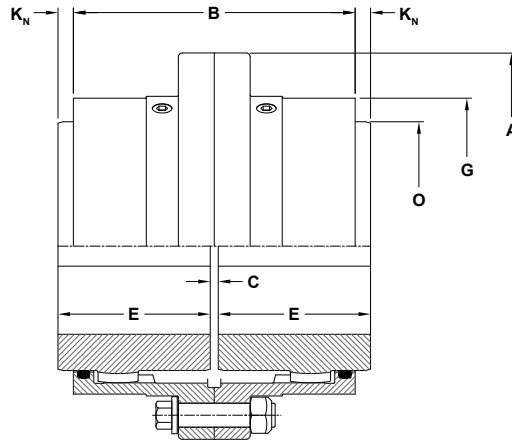
- Exposed and shrouded bolt options
- Precision drilled flange bolt holes
- Tight tolerance Grade 8 bolts

KOP-FLEX[®] SERIES H PLUS

ADVANTAGES



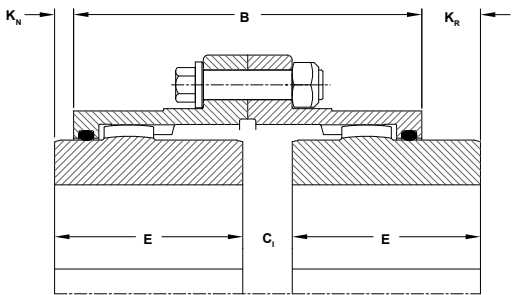
*When a new coupling is aligned, installed, lubricated and operated within the limits specified in the Kop-Flex Series H Plus gear coupling installation instructions Form 10568E, the following warranties apply from date of purchase. Kop-Flex Series H Plus gear couplings are warranted for four years when Kop-Flex KHP grease is used. If other approved coupling greases are used, our standard one-year warranty applies to the coupling.



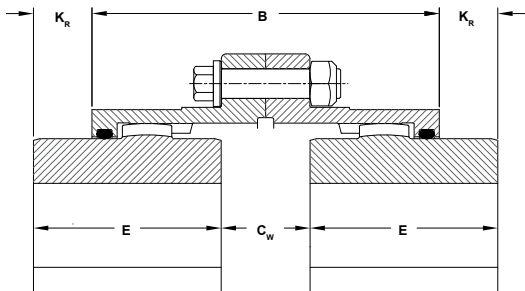
Coupling Size	Maximum Bore with Standard Keyway	Rating HP / 100 RPM	Torque Rating (lb.-in.)	Peak Torque Rating (lb.-in.)	Maximum Speed (RPM) (Without Balancing)	Weight with Solid Hubs (lbs.)	Dimensions												
							A	B	C	C _i	C _w	E	G	K _N	K _R	O	T	U	W
1	1.875	13	8,250	16,500	8000	10	4.56	3.08	0.13	0.27	0.41	1.69	3.30	0.22	0.36	2.70	.55	.20	.25
1 1/2	2.375	30	18,700	37,400	6500	20	6.00	3.78	0.13	0.63	1.13	1.94	4.14	0.12	0.62	3.40	.75	.20	.25
2	2.875	55	34,700	69,400	5600	35	7.00	4.70	0.13	0.59	1.05	2.44	4.98	0.16	0.62	4.14	.75	.20	.25
2 1/2	3.625	99	62,400	124,800	5000	65	8.38	5.66	0.19	0.76	1.33	3.03	6.10	0.30	0.87	5.14	.86	.20	.32
3	4.125	176	105,000	210,000	4400	95	9.44	6.62	0.19	0.98	1.77	3.59	7.10	0.38	1.17	6.00	.86	.20	.32
3 1/2	4.875	258	162,800	325,600	3900	150	11.00	7.70	0.25	1.32	2.39	4.19	8.32	0.46	1.53	7.00	1.12	.20	.40
4	5.750	412	260,000	520,000	3600	215	12.50	8.78	0.25	1.68	3.11	4.75	9.66	0.48	1.91	8.25	1.12	.32	.40
4 1/2	6.750	555	350,000	700,000	3200	300	13.62	9.70	0.31	1.84	3.37	5.31	10.79	0.61	2.14	9.25	1.12	.32	.40
5	7.375	770	485,000	970,000	2900	420	15.31	11.10	0.31	2.16	4.01	6.03	12.04	0.63	2.48	10.00	1.50	.40	.56
5 1/2*	8.250	1012	638,000	1,276,000	2650	550	16.75	12.46	0.31	2.79	5.27	6.62	13.16	0.55	3.02	11.00	1.50	.40	-
6*	9.125	1325	780,000	1,560,000	2450	675	18.00	13.34	0.31	2.66	5.01	7.41	14.41	0.89	3.24	12.00	1.00	.52	-
7*	10.875	2025	1,180,000	2,360,000	2150	1070	20.75	15.42	0.38	3.15	5.92	8.69	16.73	1.16	3.93	14.00	1.12	.66	-

*Sizes 5 1/2, 6 and 7 are only available with exposed bolt sleeves. Type EB exposed bolt sleeves are standard.

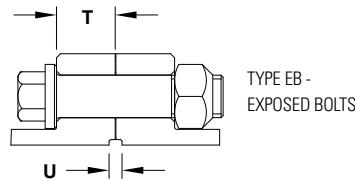
All finish bores and keyways per AGMA/ANSI 9002 or 9112 commercial standard tolerances, unless otherwise specified.



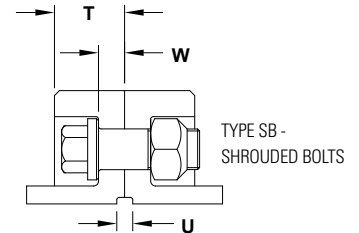
ONE HUB REVERSED



TWO HUBS REVERSED



TYPE EB - EXPOSED BOLTS



TYPE SB - SHROUDED BOLTS

Coupling Size	Type EB Exposed Bolt			Type SB Shrouded Bolt		
	Qty.	Size & Length	Bolt Circle	Qty.	Size & Length	Bolt Circle
1	6	0.25 X 1.50	3.750	6	0.25 X 0.812	3.750
1 1/2	8	0.375 X 2.00	4.812	8	0.375 X 0.938	4.812
2	6	0.50 X 2.25	5.875	10	0.375 X 0.938	5.812
2 1/2	6	0.625 X 2.44	7.125	10	0.500 X 1.250	7.000
3	8	0.625 X 2.44	8.125	12	0.500 X 1.250	8.000
3 1/2	8	0.75 X 3.00	9.500	12	0.625 X 1.500	9.281
4	8	0.75 X 3.00	11.000	14	0.625 X 1.500	10.625
4 1/2	10	0.75 X 3.00	12.000	14	0.625 X 1.500	11.750
5	8	0.875 X 4.00	13.500	14	0.75 X 2.000	13.188
5 1/2*	14	0.875 X 4.00	14.500	-	-	-
6*	14	0.875 X 4.00	15.750	-	-	-
7*	16	1.00 X 3.00	18.250	-	-	-

SERIES H PLUS GEAR COUPLINGS



FULL FLEX COUPLING SIZES 1-7

COUPLING TYPE EB (EXPOSED BOLT) PART NUMBERS

Coupling Size	Full Flex Coupling			Fastener Set (Includes Gasket)		Sleeve		Flex Hub		
	No Bore Part No.	Wt.	Finish Bore	Part No.	Wt.	Part No.	Wt.	No Bore Part No.	Wt.	Finish Bore
1	1HG EB FF	10	1HG EB FF FB	1 EB FS PLUS	1	1HG EB SLEEVE	2	1HG FHUB	3	1HG FHUB FB
1 1/2	1 1/2HG EB FF	19	1 1/2HG EB FF FB	1 1/2 EB FS PLUS	1	1 1/2HG EB SLEEVE	6	1 1/2HG FHUB	3	1 1/2HG FHUB FB
2	2HG EB FF	30	2HG EB FF FB	2 EB FS PLUS	1	2HG EB SLEEVE	8	2HG FHUB	7	2HG FHUB FB
2 1/2	2 1/2HG EB FF	52	2 1/2HG EB FF FB	2 1/2 EB FS PLUS	2	2 1/2HG EB SLEEVE	14	2 1/2HG FHUB	12	2 1/2HG FHUB FB
3	3HG EB FF	76	3HG EB FF FB	3 EB FS PLUS	3	3HG EB SLEEVE	17	3HG FHUB	20	3HG FHUB FB
3 1/2	3 1/2HG EB FF	117	3 1/2HG EB FF FB	3 1/2 EB FS PLUS	5	3 1/2HG EB SLEEVE	28	3 1/2HG FHUB	28	3 1/2HG FHUB FB
4	4HG EB FF	180	4HG EB FF FB	4 EB FS PLUS	5	4HG EB SLEEVE	41	4HG FHUB	47	4HG FHUB FB
4 1/2	4 1/2HG EB FF	244	4 1/2HG EB FF FB	4 1/2 EB FS PLUS	7	4 1/2HG EB SLEEVE	53	4 1/2HG FHUB	66	4 1/2HG FHUB FB
5	5HG EB FF	361	5HG EB FF FB	5 EB FS PLUS	9	5HG EB SLEEVE	80	5HG FHUB	96	5HG FHUB FB
5 1/2**	5 1/2HG EB FF	422	5 1/2HG EB FF FB	5 1/2 EB FS PLUS	14	5 1/2HG EB SLEEVE	89	5 1/2HG FHUB	115	5 1/2HG FHUB FB
6	6HG EB FF	494	6HG EB FF FB	6 EB FS PLUS	14	6HG EB SLEEVE	100	6HG FHUB	140	6HG FHUB FB
7	7HG EB FF	822	7HG EB FF FB	7 EB FS PLUS	22	7HG EB SLEEVE	160	7HG FHUB	240	7HG FHUB FB

All finish bores and keyways per AGMA/ANSI 9002 or 9112 commercial standard tolerances, unless otherwise specified.

Clearance fit bores are available on request and include one setscrew over keyway.

** For 5 1/2 EB ONLY:

FLANGE 1 "T"	FLANGE 2 "T"	REQUIRED BOLT KIT DESCRIPTION	REQUIRED BOLT KIT PART NUMBER
0.94"	0.94"	5 1/2 EB FS	1961051
1.50"	0.94"	5 1/2 EB FS SPECIAL	WA37379
1.50"	1.50"	5 1/2 EB FS PLUS	HG1961051

NOTE: Prior to 1980 and after 2023, the "T" dimension of the 5 1/2 EB flange was 1.50". Between 1980 and 2023, the flange thickness was 0.94". When mating different flange thicknesses together, the hardware kit may need to be adjusted accordingly. Please utilize this table to determine the correct hardware kit number, or contact us for further help (see back cover).

COUPLING TYPE SB (SHROUDED BOLT) PART NUMBERS

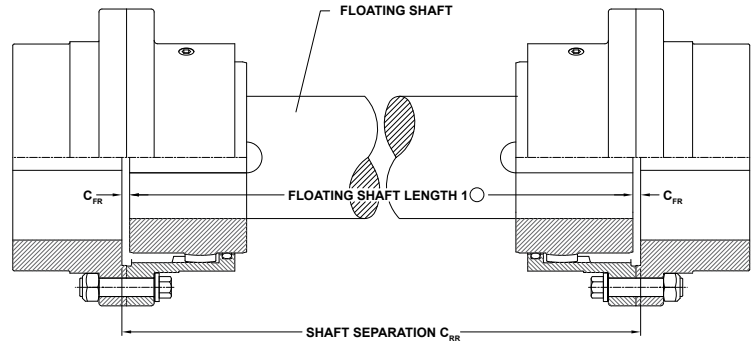
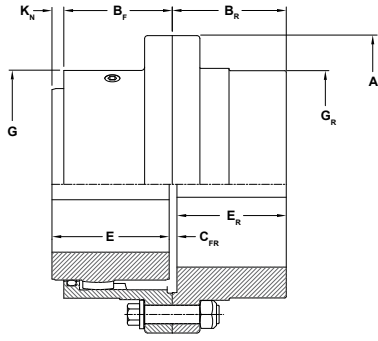
Coupling Size	Full Flex Coupling			Fastener Set (Includes Gasket)		Sleeve		Flex Hub		
	No Bore Part No.	Wt.	Finish Bore	Part No.	Wt.	Part No.	Wt.	No Bore Part No.	Wt.	Finish Bore
1	1HG SB FF	10	1HG SB FF FB	1 SB FS PLUS	1	1HG SB SLEEVE	2	1HG FHUB	3	1HG FHUB FB
1 1/2	1 1/2HG SB FF	19	1 1/2HG SB FF FB	1 1/2 SB FS PLUS	1	1 1/2HG SB SLEEVE	6	1 1/2HG FHUB	3	1 1/2HG FHUB FB
2	2HG SB FF	30	2HG SB FF FB	2 SB FS PLUS	1	2HG SB SLEEVE	8	2HG FHUB	7	2HG FHUB FB
2 1/2	2 1/2HG SB FF	52	2 1/2HG SB FF FB	2 1/2 SB FS PLUS	2	2 1/2HG SB SLEEVE	14	2 1/2HG FHUB	12	2 1/2HG FHUB FB
3	3HG SB FF	76	3HG SB FF FB	3 SB FS PLUS	3	3HG SB SLEEVE	17	3HG FHUB	20	3HG FHUB FB
3 1/2	3 1/2HG SB FF	117	3 1/2HG SB FF FB	3 1/2 SB FS PLUS	5	3 1/2HG SB SLEEVE	28	3 1/2HG FHUB	28	3 1/2HG FHUB FB
4	4HG SB FF	180	4HG SB FF FB	4 SB FS PLUS	5	4HG SB SLEEVE	41	4HG FHUB	47	4HG FHUB FB
4 1/2	4 1/2HG SB FF	244	4 1/2HG SB FF FB	4 1/2 SB FS PLUS	7	4 1/2HG SB SLEEVE	53	4 1/2HG FHUB	66	4 1/2HG FHUB FB
5	5HG SB FF	361	5HG SB FF FB	5 SB FS PLUS	9	5HG SB SLEEVE	80	5HG FHUB	96	5HG FHUB FB

Sizes 5 1/2, 6 and 7 are not available with shrouded bolt.

All finish bores and keyways per AGMA/ANSI 9002 or 9112 commercial standard tolerances, unless otherwise specified.

Clearance fit bores are available on request and include one setscrew over keyway.

FLEX RIGID AND FLOATING SHAFT COUPLING SIZES 1-7



Coupling Size	Maximum Bore with Standard Keyway		Rating HP / 100 RPM	Torque Rating (lb.-in.)	Peak Torque Rating (lb.-in.)	Maximum Speed (RPM)	Dimensions						
	Flex	Rigid					A	B _F	B _R	C _{FR}	E	E _R	G _R
1	1.875	2.375	13	8,250	16,500	14,500	4.56	1.53	1.66	0.16	1.69	1.56	3.30
1 1/2	2.375	2.938	30	18,700	37,400	12,000	6.00	1.88	1.92	0.16	1.94	1.82	4.14
2	2.875	3.625	55	34,700	69,400	9,300	7.00	2.34	2.40	0.16	2.44	2.30	4.98
2 1/2	3.625	4.375	99	62,400	124,800	7,900	8.38	2.82	3.00	0.19	3.03	2.90	6.10
3	4.125	5.125	176	105,000	210,000	6,800	9.44	3.30	3.56	0.19	3.59	3.46	7.10
3 1/2	4.875	5.875	258	162,800	325,600	6,000	11.00	3.84	4.12	0.22	4.19	4.02	8.32
4	5.750	7.250	412	260,000	520,000	5,260	12.50	4.38	4.70	0.28	4.75	4.54	9.66
4 1/2	6.750	8.125	555	350,000	700,000	4,770	13.62	4.84	5.30	0.31	5.31	5.14	10.79
5	7.375	9.000	770	485,000	970,000	4,300	15.31	5.54	6.00	0.34	6.03	5.80	12.04
5 1/2	8.250	10.00	1012	638,000	1,276,000	3,880	16.75	6.22	7.00	0.34	6.62	6.80	13.16
6	9.125	11.00	1325	780,000	1,560,000	3,600	18.00	6.66	7.60	0.41	7.41	7.34	14.41
7	10.875	13.00	2025	1,180,000	2,360,000	3,000	20.75	7.70	9.00	0.50	8.69	8.67	16.73

All finish bores and keyways per AGMA/ANSI 9002 or 9112 commercial standard tolerances, unless otherwise specified.

Maximum speed is based on flange stress limits and does not consider lateral critical speed considerations for floating shaft applications.

Floating shaft length is equal to the shaft separation minus 2 times the C_{FR} dimension.

COUPLING PART NUMBERS

Coupling Size	Exposed Bolt						Shrouded Bolt					
	Flex Rigid Coupling			Rigid Hub			Flex Rigid Coupling			Rigid Hub		
	No Bore Part No.	Wt.	Finish Bore Part No.	No Bore Part No.	Wt.	Finish Bore	No Bore Part No.	Wt.	Finish Bore Part No.	No Bore Part No.	Wt.	Finish Bore Part No.
1	1HG EB FR	10	1HG EB FR FB	1 EB RHUB PLUS	5	1 EB RHUB PLUS FB	1HG SB FR	10	1HG SB FR FB	1 SB RHUB PLUS	5	1 SB RHUB PLUS FB
1 1/2	1 1/2HG EB FR	19	1 1/2HG EB FR FB	1 1/2 EB RHUB PLUS	9	1 1/2 EB RHUB PLUS FB	1 1/2HG SB FR	19	1 1/2HG SB FR FB	1 1/2 SB RHUB PLUS	9	1 1/2 SB RHUB PLUS FB
2	2HG EB FR	31	2HG EB FR FB	2 EB RHUB PLUS	15	2 EB RHUB PLUS FB	2HG SB FR	31	2HG SB FR FB	2 SB RHUB PLUS	15	2 SB RHUB PLUS FB
2 1/2	2 1/2HG EB FR	55	2 1/2HG EB FR FB	2 1/2 EB RHUB PLUS	27	2 1/2 EB RHUB PLUS FB	2 1/2HG SB FR	55	2 1/2HG SB FR FB	2 1/2 SB RHUB PLUS	27	2 1/2 SB RHUB PLUS FB
3	3HG EB FR	83	3HG EB FR FB	3 EB RHUB PLUS	40	3 EB RHUB PLUS FB	3HG SB FR	83	3HG SB FR FB	3 SB RHUB PLUS	40	3 SB RHUB PLUS FB
3 1/2	3 1/2HG EB FR	126	3 1/2HG EB FR FB	3 1/2 EB RHUB PLUS	65	3 1/2 EB RHUB PLUS FB	3 1/2HG SB FR	126	3 1/2HG SB FR FB	3 1/2 SB RHUB PLUS	65	3 1/2 SB RHUB PLUS FB
4	4HG EB FR	184	4HG EB FR FB	4 EB RHUB PLUS	90	4 EB RHUB PLUS FB	4HG SB FR	184	4HG SB FR FB	4 SB RHUB PLUS	90	4 SB RHUB PLUS FB
4 1/2	4 1/2HG EB FR	252	4 1/2HG EB FR FB	4 1/2 EB RHUB PLUS	124	4 1/2 EB RHUB PLUS FB	4 1/2HG SB FR	252	4 1/2HG SB FR FB	4 1/2 SB RHUB PLUS	124	4 1/2 SB RHUB PLUS FB
5	5HG EB FR	371	5HG EB FR FB	5 EB RHUB PLUS	119	5 EB RHUB PLUS FB	5HG SB FR	371	5HG SB FR FB	5 SB RHUB PLUS	119	5 SB RHUB PLUS FB
5 1/2	5 1/2HG EB FR	418	5 1/2HG EB FR FB	5 1/2 EB RHUB PLUS	200	5 1/2 EB RHUB PLUS FB	-	-	-	-	-	-
6	6HG EB FR	504	6HGEB FR FB	6 EB RHUB PLUS	250	6 EB RHUB PLUS FB	-	-	-	-	-	-
7	7HG EB FR	792	7HG EB FR FB	7 EB RHUB PLUS	370	7 EB RHUB PLUS FB	-	-	-	-	-	-

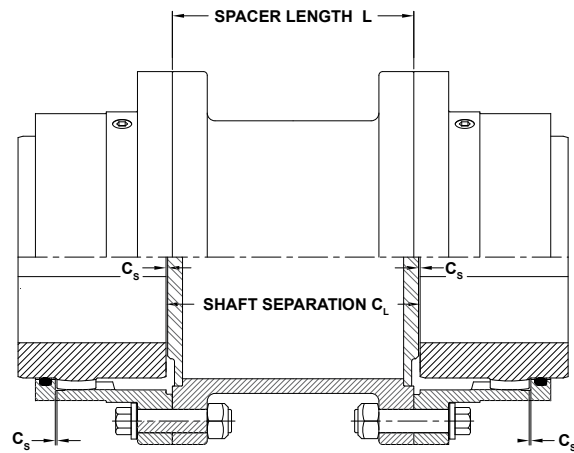
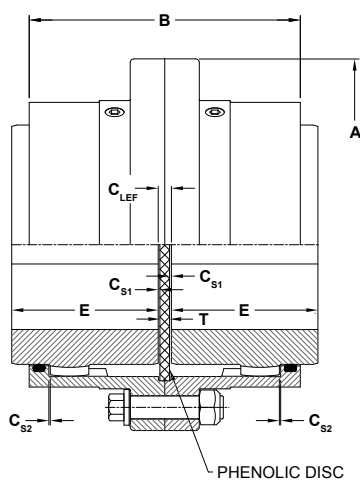
Sizes 5 1/2, 6 and 7 are only available with exposed bolt. Type EB exposed bolt is standard.

Rigid hubs are furnished less fasteners.

SERIES H PLUS GEAR COUPLINGS



LIMITED END FLOAT



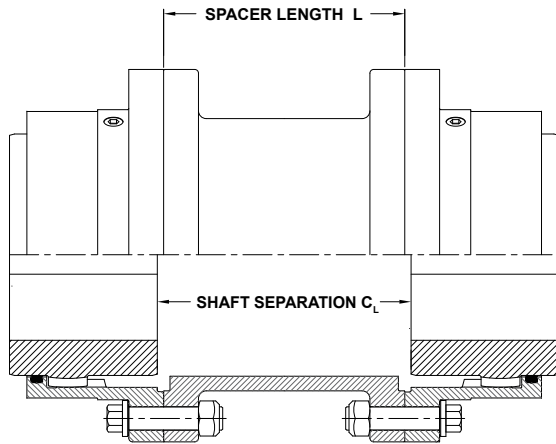
Coupling Size	Total LEF (in.)	Dimensions							LEF Disc	
		A	B	C _{S1}	C _{S2}	C _{LEF} (Hub Sep.)	E	T (Disc Width)	Part No.	Wt.
1	0.116	4.56	3.08	0.029	0.029	0.188	1.69	0.125	1H LEFD	1
1 1/2	0.126	6.00	3.78	0.031	0.031	0.188	1.94	0.125	1 1/2H LEFD	1
2	0.124	7.00	4.70	0.032	0.041	0.188	2.44	0.125	2H LEFD	1
2 1/2	0.182	8.38	5.66	0.047	0.044	0.281	3.03	0.188	2 1/2H LEFD	1
3	0.222	9.44	6.62	0.047	0.065	0.281	3.59	0.188	3H LEFD	1
3 1/2	0.194	11.00	7.70	0.047	0.049	0.406	4.19	0.312	3 1/2H LEFD	2
4	0.192	12.50	8.78	0.047	0.049	0.406	4.75	0.312	4H LEFD	2
4 1/2	0.186	13.62	9.70	0.046	0.047	0.531	5.31	0.438	4 1/2H LEFD	2
5	0.206	15.31	11.10	0.046	0.071	0.531	6.03	0.438	5H LEFD	2
5 1/2*	0.154	16.75	12.46	0.039	0.038	0.594	6.62	0.500	5 1/2H LEFD	2
6*	0.224	18.00	13.34	0.047	0.066	0.594	7.41	0.500	6H LEFD	2
7*	0.200	20.75	15.42	0.063	0.037	0.750	8.69	0.625	7H LEFD	2

SERIES H PLUS GEAR COUPLINGS

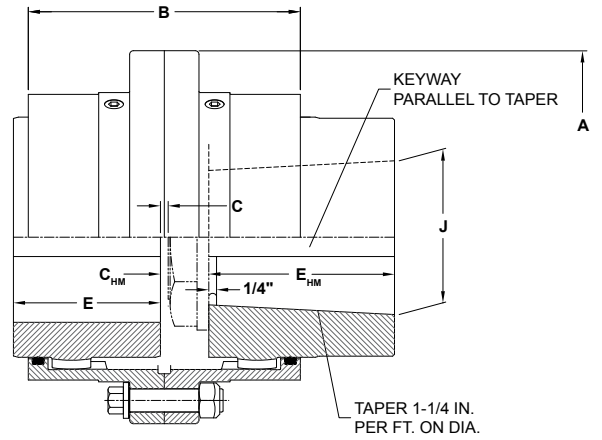
ADDITIONAL STYLES



SPACER STYLE



MILL MOTOR



PRODUCT CATALOG



KOP-FLEX®

Industrial Powertrain Solutions Regal Rexnord

Customer Service: 800-626-2120

Technical Service: 800-626-2093

CustomerService.PTSolutions@regalrexnord.com

regalrexnord.com

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