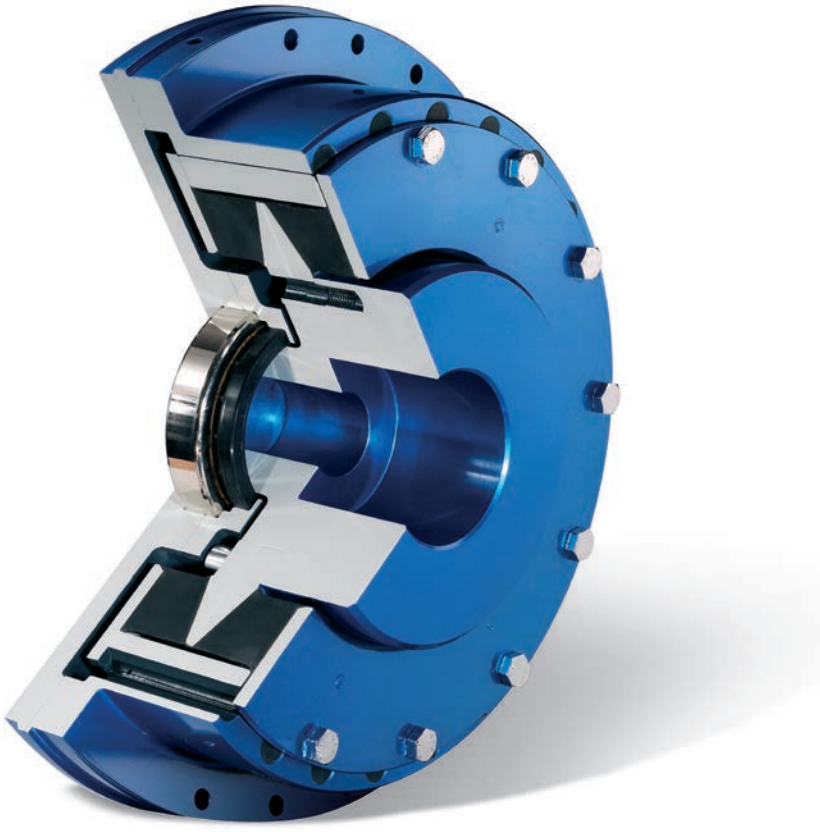
voith.com

VOITH

Bell-house mounted arrangement
Highly flexible K Coupling



Advantages and benefits

+ Shifts resonance frequencies into non-critical speed ranges
+ Ensures a high degree of operational durability
+ Standardized components ensure an optimal cost/benefit ratio
+ High torque capacity

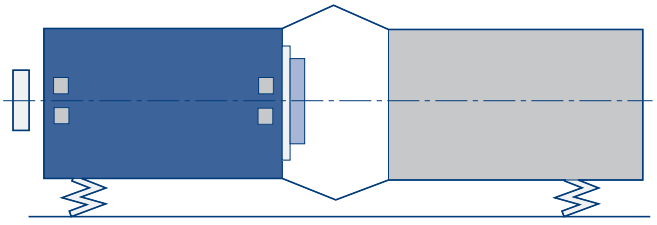
K Couplings for bell-house mounted arrangements are the only coupling type providing a blind assembly connection. They are specially designed for applications where the driven machine is directly flanged onto the engine flywheel housing. The assembly is done directly when driver and driven machine are bolted together.

The K Coupling shifts resonance frequencies below idle speed and dampens torsional vibrations and shock loads. As a result, operational stability and thus productivity of your system or vehicle increase. Typical applications are rail vehicles, construction machinery and gensets. Depending on the size, up to 1 300 000 Nm can be safely transferred.

For bell-house mounted arrangements, we offer different designs of blind assembly couplings. They can be distinguished by the way the blind assembly capability is implemented:

- Positive engagement between an inner and outer ring by means of pins
- Positive engagement by means of splined hub and shaft

Bell-house mounted arrangement

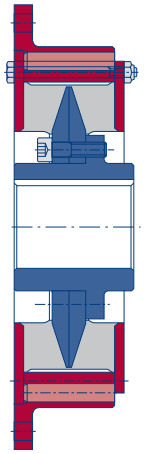


Product range highly flexible blind assembly couplings

Designation	Type of coupling	Bearing type	Frictional damping	Connection	Notes
BR 362	Single element blind assembly coupling	–	yes	Engine flywheel – splined shaft	
BR 364	Single element blind assembly coupling	–	yes	Engine flywheel – splined shaft	
BR 366	Twin element blind assembly coupling	–	no	Engine flywheel – splined shaft	
BR 368	Twin element blind assembly coupling	–	yes	Engine flywheel – splined shaft	
BR 371	Twin element blind assembly coupling	Antifriction bearing	no	Engine flywheel – generator solid shaft	for single-bearing generators
BR 372	Single element blind assembly coupling	Antifriction bearing	yes	Engine flywheel – generator solid shaft	for single-bearing generators, short installed length

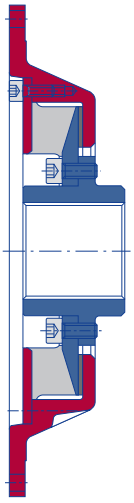
Positive engagement between an inner and outer ring by means of pins

Series 366



Positive engagement by means of splined hub and shaft

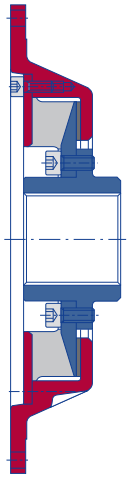
Series 362



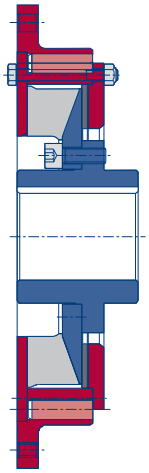
Coupling parameters

Single standard elastomer element, preloaded, with frictional damping

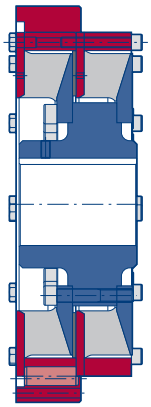
Series 362



Series 364



Series 368



Size	Shore hardness shA [°]	Nominal torque T_{KN} [Nm]	Maximum torque T_{Kmax} [Nm]	Admissible continuous alt. torque T_{KW} [Nm]	Dynamic torsional rigidity C_{Tdyn} [Nm/rad]	Admissible power loss P_{KV} [W]	Relative damping ψ
K 005	N 45	180	540	65	950	90	1.6
	N 50	200	600	70	1 400		
	N 60	220	660	75	2 100		
	N 70	240	720	85	4 100		
K 010	N 45	260	780	90	1 300	110	1.6
	N 50	300	900	105	2 000		
	N 60	330	990	115	3 000		
	N 70	360	1 080	125	6 200		
K 015	N 45	350	1 050	120	1 700	130	1.6
	N 50	390	1 170	135	2 600		
	N 60	430	1 290	150	4 000		
	N 70	480	1 440	170	8 100		
K 020	N 45	450	1 350	160	2 100	150	1.6
	N 50	510	1 530	180	3 600		
	N 60	570	1 710	200	5 000		
	N 70	620	1 860	215	10 600		
K 025	N 45	590	1 770	180	2 800	170	1.6
	N 50	660	1 980	200	4 600		
	N 60	730	2 190	220	6 800		
	N 70	810	2 430	245	13 600		
K 030	N 45	750	2 250	225	3 600	200	1.6
	N 50	840	2 520	250	6 000		
	N 60	930	2 790	280	8 800		
	N 70	1030	3 090	310	17 950		
K 035	N 45	960	2 880	290	4 600	230	1.6
	N 50	1090	3 270	325	7 600		
	N 60	1210	3 630	365	11 700		
	N 70	1330	3 990	400	22 600		
K 040	N 45	1 240	3 720	370	6 000	260	1.6
	N 50	1 400	4 200	420	9 800		
	N 60	1 550	4 650	465	15 000		
	N 70	1 710	5 130	515	29 100		
K 045	N 45	1 680	5 040	420	8 500	310	1.6
	N 50	1 890	5 670	470	13 300		
	N 60	2 100	6 300	525	20 400		
	N 70	2 310	6 930	580	39 500		

Dynamische Drehsteifigkeit bei 20°C
Zulässige Temperatur an der Naturkautschukoberfläche von -40 bis +90°C

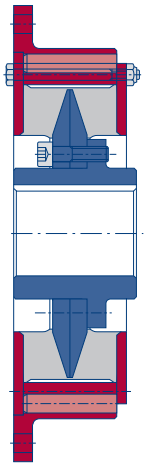
Size	Shore hardness shA [°]	Nominal torque T_{KN} [Nm]	Maximum torque T_{Kmax} [Nm]	Admissible continuous alt. torque T_{KW} [Nm]	Dynamic torsional rigidity C_{Tdyn} [Nm/rad]	Admissible power loss P_{KV} [W]	Relative damping ψ
K 050	N 45	2 170	6 510	540	10 500	350	1.6
	N 50	2 440	7 320	610	17 100		
	N 60	2 710	8 130	680	26 000		
	N 70	2 990	8 970	750	50 000		
K 055	N 45	2 990	8 970	750	14 600	420	1.6
	N 50	3 360	10 080	840	23 600		
	N 60	3 730	11 190	935	36 400		
	N 70	4 110	12 330	1 030	70 500		
K 060	N 45	4 400	13 200	1 100	21 400	510	1.6
	N 50	4 950	14 850	1 240	34 700		
	N 60	5 500	16 500	1 375	53 000		
	N 70	6 050	18 150	1 515	103 400		
K 065	N 45	6 300	18 900	1 260	31 000	630	1.6
	N 50	7 100	21 300	1 420	50 000		
	N 60	7 900	23 700	1 580	77 000		
	N 70	8 700	26 100	1 740	149 500		
K 070	N 45	9 100	27 300	1 820	44 300	760	1.6
	N 50	10 200	30 600	2 040	71 500		
	N 60	11 400	34 200	2 280	110 000		
	N 70	12 500	37 500	2 500	213 400		
K 075	N 45	12 400	37 200	2 480	61 000	900	1.6
	N 50	14 000	42 000	2 800	98 000		
	N 60	15 500	46 500	3 100	151 000		
	N 70	17 100	51 300	3 420	290 000		
K 080	N 45	16 900	50 700	3 380	82 300	1 060	1.6
	N 50	19 000	57 000	3 800	133 000		
	N 60	21 100	63 300	4 220	205 000		
	N 70	23 200	69 600	4 640	397 000		
K 085	N 45	23 900	71 700	4 780	117 000	1 280	1.6
	N 50	26 900	80 700	5 380	188 000		
	N 60	29 900	89 700	5 980	290 000		
	N 70	32 900	98 700	6 580	562 000		
K 090	N 45	35 700	98 200	6 660	216 000	1 530	1.6
	N 50	41 200	113 300	7 500	360 000		
	N 60	45 400	124 800	8 320	525 600		
	N 70	49 000	134 700	9 160	1 080 000		
K 095	N 50	48 500	145 500	9 700	245 000	–	1.6
	N 60	54 600	163 000	10 920	400 000		
	N 70	60 600	181 000	12 120	600 000		
	N 45	66 700	200 100	13 340	1 200 000		
K 100	N 50	64 400	193 200	12 880	320 000	–	1.6
	N 60	72 400	217 000	14 480	520 000		
	N 70	80 500	240 000	16 100	790 000		
	N 45	88 500	265 500	17 700	1 550 000		
K 105	N 50	80 000	240 000	16 000	430 000	–	1.6
	N 60	90 000	270 000	18 000	690 000		
	N 70	100 000	300 000	20 000	1 100 000		
	N 45	110 000	330 000	22 000	2 100 000		
K 110	N 50	105 000	315 000	21 000	620 000	–	1.6
	N 60	118 000	354 000	23 600	1000 000		
	N 70	131 000	390 000	26 200	1 500 000		
	N 45	144 200	432 600	28 840	3 000 000		
K 115	N 50	130 000	390 000	26 000	830 000	–	1.6
	N 60	146 100	438 000	29 220	1 323 000		
	N 70	162 300	487 000	32 460	2 000 000		
	N 45	178 500	535 500	35 700	4 000 000		
K 120	N 45	161 100	483 300	32 220	1 100 000	–	1.6
	N 50	181 000	542 000	36 240	1 764 000		
	N 60	201 300	604 000	40 260	2 700 000		
	N 70	221 500	664 500	44 300	5 300 000		

Dynamische Drehsteifigkeit bei 20°C
Zulässige Temperatur an der Naturkautschukoberfläche von -40 bis +90°C

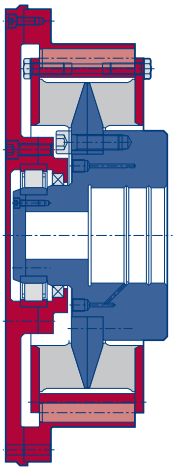
Coupling parameters

Twin standard elastomer elements in parallel, preloaded, without friction damping

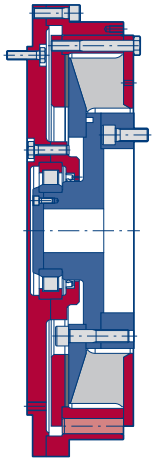
Series 366



Series 371



Series 372



Size	Shore hardness shA [°]	Nominal torque T_{KN} [Nm]	Maximum torque T_{Kmax} [Nm]	Admissible continuous alt. torque T_{KW} [Nm]	Dynamic torsional rigidity C_{Tdyn} [Nm/rad]	Axial spring rigidity C_{ax} [N/mm]	Radial spring rigidity C_{rad} [N/mm]	Admissible power loss P_{KV} [W]	Relative damping ψ
K 005	N 45	360	1 080	130	1 900	2 200	700	100	0.75
	N 50	400	1 200	140	2 800	3 000	900		0.75
	N 60	440	1 320	150	4 200	3 600	1 300		0.95
	N 70	480	1 440	170	8 200	6 000	2 500		1.15
K 010	N 45	520	1 560	180	2 600	2 600	800	130	0.75
	N 50	600	1 800	210	4 000	3 400	1 000		0.75
	N 60	660	1 980	230	6 000	4 000	1 400		0.95
	N 70	720	2 160	250	12 400	6 800	2 800		1.15
K 015	N 45	700	2 100	240	3 400	3 000	900	150	0.75
	N 50	780	2 340	270	5 200	3 800	1 100		0.75
	N 60	860	2 580	300	8 000	4 400	1 600		0.95
	N 70	960	2 880	340	16 200	7 800	3 100		1.15
K 020	N 45	900	2 700	320	4 200	3 400	1 000	170	0.75
	N 50	1 020	3 060	360	7 200	4 400	1 200		0.75
	N 60	1 140	3 420	400	10 000	5 000	1 700		0.95
	N 70	1 240	3 720	430	21 200	8 800	3 400		1.15
K 025	N 45	1 180	3 540	360	5 600	3 800	1 100	200	0.75
	N 50	1 320	3 960	400	9 200	5 000	1 300		0.75
	N 60	1 460	4 380	440	13 600	5 800	1 900		0.95
	N 70	1 620	4 860	490	27 200	10 000	3 600		1.15
K 030	N 45	1 500	4 500	450	7 200	4 200	1 300	220	0.75
	N 50	1 680	5 040	500	12 000	5 800	1 500		0.75
	N 60	1 860	5 580	560	17 600	6 600	2 100		0.95
	N 70	2 060	6 180	620	35 900	11 200	4 200		1.15
K 035	N 45	1 920	5 760	580	9 200	4 800	1 500	250	0.75
	N 50	2 180	6 540	650	15 200	6 600	1 700		0.75
	N 60	2 420	7 260	730	23 400	7 600	2 500		0.95
	N 70	2 660	7 980	800	45 200	12 600	4 800		1.15
K 040	N 45	2 480	7 440	740	12 000	5 400	1 600	290	0.75
	N 50	2 800	8 400	840	19 600	7 000	1 900		0.75
	N 60	3 100	9 300	930	30 000	8 800	2 800		0.95
	N 70	3 420	10 260	1030	58 200	14 000	5 300		1.15
K 045	N 45	3 360	10 080	840	17 000	6 000	1 800	340	0.75
	N 50	3 780	11 340	940	26 600	8 000	2 100		0.75
	N 60	4 200	12 600	1 050	40 800	10 000	3 000		0.95
	N 70	4 620	13 860	1 160	79 000	16 000	5 900		1.15

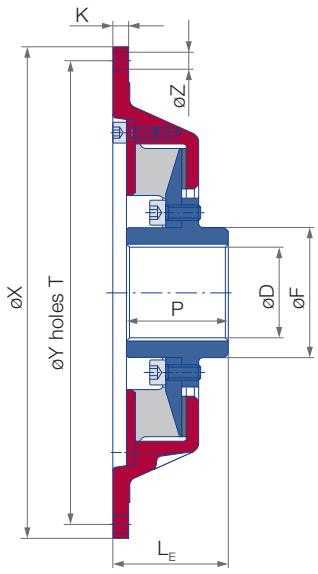
Dynamische Drehsteifigkeit bei 20°C
Zulässige Temperatur an der Naturkautschukoberfläche von -40 bis +90°C

Size	Shore hardness shA [°]	Nominal torque T_{KN} [Nm]	Maximum torque T_{Kmax} [Nm]	Admissible continuous alt. torque T_{KW} [Nm]	Dynamic torsional rigidity C_{Tdyn} [Nm/rad]	Axial spring rigidity C_{ax} [N/mm]	Radial spring rigidity C_{rad} [N/mm]	Admissible power loss P_{KV} [W]	Relative damping ψ
K 050	N 45	4340	13020	1080	21000	6600	2000	390	0.75
	N 50	4880	14640	1220	34200	9000	2300		0.75
	N 60	5420	16260	1360	52000	11200	3300		0.95
	N 70	5980	17940	1500	100000	18000	6400		1.15
K 055	N 45	5980	17940	1500	29200	7400	2200	460	0.75
	N 50	6720	20160	1680	47200	10000	2600		0.75
	N 60	7460	22380	1870	72800	12500	3800		0.95
	N 70	8220	24660	2060	141000	20000	7300		1.15
K 060	N 45	8800	26400	2200	42800	8200	2600	570	0.75
	N 50	9900	29700	2480	69400	11000	3000		0.75
	N 60	11000	33000	2750	106000	13800	4400		0.95
	N 70	12100	36300	3030	206800	22000	8400		1.15
K 065	N 45	12600	37800	2520	62000	9600	2900	690	0.75
	N 50	14200	42600	2840	100000	13000	3400		0.75
	N 60	15800	47400	3160	154000	16000	4900		0.95
	N 70	17400	52200	3480	299000	26000	9500		1.15
K 070	N 45	18200	54600	3640	88600	11000	3300	840	0.75
	N 50	20400	61200	4080	143000	15000	3900		0.75
	N 60	22800	68400	4560	220000	18800	5700		0.95
	N 70	25000	75000	5000	426800	30000	10900		1.15
K 075	N 45	24800	74400	4960	122000	12500	3800	980	0.75
	N 50	28000	84000	5600	196000	17000	4400		0.75
	N 60	31000	93000	6200	302000	21600	6400		0.95
	N 70	34200	102600	6840	580000	34000	12300		1.15
K 080	N 45	33800	101400	6760	164600	14000	4300	1160	0.75
	N 50	38000	114000	7600	266000	19000	5000		0.75
	N 60	42200	126600	8440	410000	24500	7300		0.95
	N 70	46400	139200	9280	794000	38000	14000		1.15
K 085	N 45	47800	143400	9560	234000	16000	5000	1390	0.75
	N 50	53800	161400	10760	376000	21000	5800		0.75
	N 60	59800	179400	11960	580000	27000	8400		0.95
	N 70	65800	197400	13160	1124000	42000	16400		1.15
K 090	N 45	71400	196400	13320	432000	19800	6380	1660	0.75
	N 50	82400	226600	15000	720000	26400	7480		0.75
	N 60	90800	249600	16640	1051200	32450	9790		0.95
	N 70	98000	269400	18320	2160000	50600	20900		1.15
K 095	N 45	97000	291000	19400	490000	–	–	–	0.75
	N 50	109200	326000	21840	800000				0.75
	N 60	121200	362000	24240	1200000				0.95
	N 70	133400	400200	26680	2400000				1.15
K 100	N 45	128800	386400	25760	640000	–	–	–	0.75
	N 50	144800	434000	28960	1040000				0.75
	N 60	161000	480000	32200	1580000				0.95
	N 70	177000	531000	35400	3100000				1.15
K 105	N 45	160000	480000	32000	860000	–	–	–	0.75
	N 50	180000	540000	36000	1380000				0.75
	N 60	200000	600000	40000	2200000				0.95
	N 70	220000	660000	44000	4200000				1.15
K 110	N 45	210000	630000	42000	1240000	–	–	–	0.75
	N 50	236000	708000	47200	2000000				0.75
	N 60	262000	780000	52400	3000000				0.95
	N 70	288400	865200	57680	6000000				1.15
K 115	N 45	260000	780000	52000	1660000	–	–	–	0.75
	N 50	292200	876000	58440	2646000				0.75
	N 60	324600	974000	64920	4000000				0.95
	N 70	357000	1071000	71400	8000000				1.15
K 120	N 45	322200	966600	64440	2200000	–	–	–	0.75
	N 50	362000	1084000	72480	3528000				0.75
	N 60	402600	1208000	80520	5400000				0.95
	N 70	443000	1329000	88600	10600000				1.15

Dynamische Drehsteifigkeit bei 20°C
Zulässige Temperatur an der Naturkautschukoberfläche von -40 bis +90°C

Dimensions

Series 362

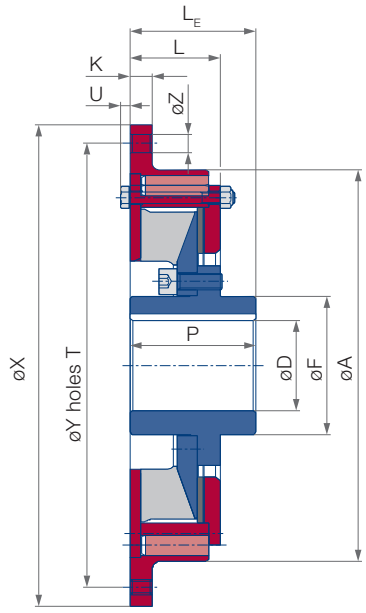


Size	Flywheel	Flywheel connecting dimensions					Hub dimensions				Mass	Mass moments of inertia	
	SAE J620	X_{g7}	$Y_{\pm 0,2}$	Z	T	K	D_{max}	F	P	L_E	m [kg]	Primary side J_A [kgm²]	Secondary side J_I [kgm²]
K 005	6.5 7.5	215.9 241.3	200.0 222.3	9 9	6 8	8 8	45	59	45	55	5.3 5.9	0.023 0.030	0.002
K 010	7.5 8	241.3 263.5	222.3 244.5	9 11	8 6	8 8	55	69	55	65	7.2 7.7	0.036 0.045	0.004
K 015	7.5 8	241.3 263.5	222.3 244.5	9 11	8 6	8 10	55	69	55	61	7.3 7.8	0.040 0.048	0.006
K 020	8 10	263.5 314.3	244.5 295.3	11 11	6 8	10 10	65	84	65	79	10.2 11.3	0.068 0.095	0.009
K 025	10 11.5	314.3 352.4	295.3 333.4	11 11	8 8	10 10	65	84	65	73	13.8 15.3	0.122 0.165	0.013
K 030	10 11.5 14	314.3 352.4 466.7	295.3 333.4 438.2	11 11 14	8 8 8	11 11 12	85	110	80	87	17.0 18.7 25.9	0.131 0.177 0.466	0.027
K 035	11.5 14	352.4 466.7	333.4 438.2	11 14	8 8	12 12	85	110	80	89	24.4 30.4	0.246 0.521	0.033
K 040	11.5 14	352.4 466.7	333.4 438.2	11 14	8 8	14 12	105	132	100	107	27.1 32.2	0.262 0.530	0.060
K 045	14	466.7	438.2	14	8	12	101	130	100	108	36.9	0.590	0.087
K 050	14	466.7	438.2	14	8	12	135	170	130	147	54.1	0.800	0.169
K 055	14	466.7	438.2	14	8	30	150	188	150	166	75.1	1.40	0.285
K 060	16 18	517.5 571.5	489.0 542.9	14 18	8 6	42 42	170	212	170	181	100 112	2.24 3.16	0.461
K 065	18 21	571.5 673.1	542.9 641.4	18 18	6 12	45 22	195	244	190	201	143 163	3.55 5.38	0.970
K 070	21 24	673.1 733.4	641.4 692.2	18 20	12 12	40 33	220	274	210	228	215 230	7.82 7.95	1.68
K 075	24	733.4	692.2	20	12	39	245	305	230	245	296	12.5	2.81
K 080	–	798.0	762.0	24	12	24	275	342	250	280	394	20.2	4.58

Dimensions in mm
Mass and mass moment of inertia are based on the use of steel
Aluminum is available on request
Sizes bigger K 080 are available on request; splined hub (øD) according to DIN/ANSI or on request

Dimensions

Series 364



Size	Flywheel	Flywheel connecting dimensions					Hub dimensions							Mass	Mass moments of inertia	
	SAE J620	X_{g7}	$Y_{\pm 0,2}$	Z	T	K	D_{max}	F	P	A	U	L	L_E	m [kg]	Primary side J_A[kgm²]	Secondary side J_I[kgm²]
K 005	6.5	215.9	200.0	9	6	10	38	59	56	176	4.0	37.2	56	5.7	0.026	0.002
	7.5	241.3	222.3	9	8	10								6.4	0.035	0.002
K 010	7.5	241.3	222.3	9	8	10	46	69	68	196	4.0	39.7	68	7.5	0.040	0.004
	8	263.5	244.5	11	6	10								8.1	0.051	0.004
K 015	8	241.3	244.5	9	6	12	46	69	68	210	4.0	42.8	68	9.4	0.065	0.006
	10	263.5	295.3	11	8	12								11.5	0.110	0.006
K 020	10	263.5	295.3	11	8	12	56	84	82	240	5.3	46.4	82	13.9	0.130	0.010
	11.5	314.3	333.4	11	8	12								15.7	0.182	0.010
K 025	10	314.3	295.3	11	8	13	56	84	82	254	5.3	48.7	82	15.5	0.153	0.014
	11.5	352.4	333.4	11	8	13								17.5	0.209	0.014
K 030	11.5	352.4	333.4	11	8	14	73	110	112	282	5.3	55.7	112	22.5	0.251	0.031
	14	466.7	438.2	14	8	14								30.5	0.594	0.031
K 035	11.5	352.4	333.4	11	8	15	73	110	112	302	5.3	58.0	112	24.8	0.302	0.037
	14	466.7	438.2	14	8	15								33.4	0.670	0.037
K 040	14	466.7	438.2	11	8	16	88	132	135	334	6.4	63.7	135	41.3	0.776	0.071
	16	517.5	489.0	14	8	16								46.2	1.070	0.071
K 045	14	466.7	438.2	14	8	17	88	130	135	358	6.4	68.2	135	44.9	0.878	0.098
	16	517.5	489.0	14	8	17								50.1	1.19	0.098
K 050	14	466.7	438.2	14	8	18	114	170	180	402	7.5	77.5	180	61.1	1.13	0.211
	16	517.5	489.0	14	8	18								66.6	1.47	0.211
K 055	16	517.5	489.0	14	8	20	126	188	195	447	8.8	86.1	195	84.4	1.97	0.349
	18	571.5	542.9	18	6	20								91.6	2.50	0.349
K 060	18	571.5	542.9	18	6	22	142	212	218	497	8.8	97.2	218	115	2.24	0.648
	21	673.1	641.4	18	12	22								132	3.16	0.648
K 065	21	673.1	641.4	18	12	24	164	244	255	565	10.0	108.5	255	178	3.55	1.22
	24	733.4	692.2	20	12	24								190	5.38	1.22
K 070	24	733.4	692.2	20	12	28	184	274	285	631	11.5	120.7	285	242	10.96	2.14
K 075	–	753.0	720.0	22	12	32	204	305	315	687	11.5	135.5	315	306	14.76	3.60
K 080	–	835.0	799.0	24	12	36	227	342	352	763	12.5	149.2	352	416	24.63	6.02

Dimensions in mm

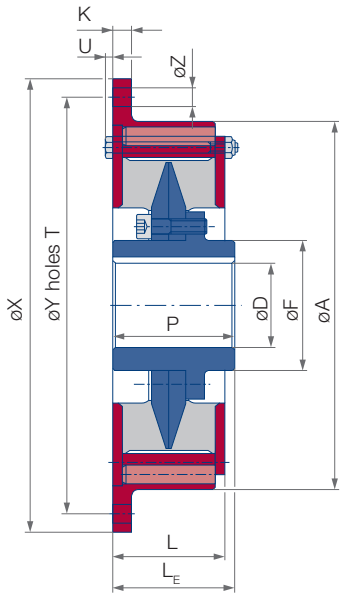
Mass and mass moment of inertia are based on the use of steel

Aluminum is available on request

Sizes bigger K 080 are available on request; splined hub (øD) according to DIN/ANSI or on request

Dimensions

Series 366

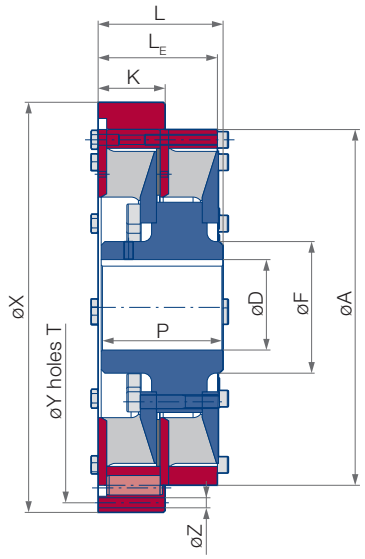


Size	Flywheel	Flywheel connecting dimensions					Hub dimensions							Mass	Mass moments of inertia	
	SAE J620	X_{g7}	$Y_{\pm 0,2}$	Z	T	K	D_{H7}	F	P	A	U	L	L_E	m [kg]	Primary side J_A[kgm²]	Secondary side J_I[kgm²]
K 005	6.5	215.9	200.0	9	6	10	38	65	56	176	4.0	53.2	56	7.4	0.030	0.003
	7.5	241.3	222.3	9	8	10								8.1	0.039	0.003
K 010	7.5	241.3	222.3	9	8	10	46	74	68	196	4.0	58.0	68	9.7	0.050	0.008
	8	263.5	244.5	11	6	10								10.4	0.061	0.008
K 015	8	263.5	244.5	11	6	12	46	74	68	210	4.0	64.2	68	12.7	0.084	0.012
	10	314.3	295.3	11	8	12								14.9	0.129	0.012
K 020	10	314.3	295.3	11	8	12	56	89	82	240	5.3	69.2	82	17.9	0.156	0.016
	11.5	352.4	333.4	11	8	12								19.7	0.208	0.016
K 025	10	314.3	295.3	11	8	13	56	89	82	254	5.3	73.8	82	20.6	0.192	0.024
	11.5	352.4	333.4	11	8	13								22.6	0.248	0.024
K 030	11.5	352.4	333.4	11	8	14	74	115	112	282	5.3	83.4	112	28.6	0.306	0.050
	14	466.7	438.2	14	8	14								36.6	0.650	0.050
K 035	11.5	352.4	333.4	11	8	15	74	115	112	302	5.3	88.0	112	33.0	0.397	0.062
	14	466.7	438.2	14	8	15								41.6	0.765	0.062
K 040	14	466.7	438.2	14	8	16	88	138	135	334	6.4	97.2	135	52.1	0.913	0.114
	16	517.5	489.0	14	8	16								57.0	1.21	0.114
K 045	14	466.7	438.2	14	8	17	88	138	135	358	6.4	104.0	135	59.4	1.10	0.168
	16	517.5	489.0	14	8	17								64.6	1.41	0.168
K 050	14	466.7	438.2	14	8	18	114	176	180	402	7.5	118.2	180	80.2	1.50	0.320
	16	517.5	489.0	14	8	18								85.7	1.83	0.320
K 055	16	517.5	489.0	14	8	20	126	195	195	447	8.8	133.0	195	110	2.57	0.532
	18	571.5	542.9	18	6	20								118	3.11	0.532
K 060	18	571.5	542.9	18	6	22	142	220	218	497	8.8	148.8	218	149	4.14	0.992
	21	673.1	641.4	18	12	22								166	5.80	0.992
K 065	21	673.1	641.4	18	12	24	164	252	255	565	10.0	167.0	255	213	8.55	1.62
	24	733.4	692.2	20	12	24								225	10.10	1.62
K 070	24	733.4	692.2	20	12	28	184	280	285	631	11.5	187.0	285	311	14.23	3.18
K 075	–	753.0	720.0	22	12	32	205	312	315	687	11.5	208.0	315	390	19.16	5.36
K 080	–	835.0	799.0	24	12	36	228	348	352	763	12.5	231.0	352	530	32.26	8.91

Dimensions in mm
Mass and mass moment of inertia are based on the use of steel
Aluminum is available on request
Sizes bigger K 080 are available on request; splined hub (øD) according to DIN/ANSI or on request

Dimensions

Series 368

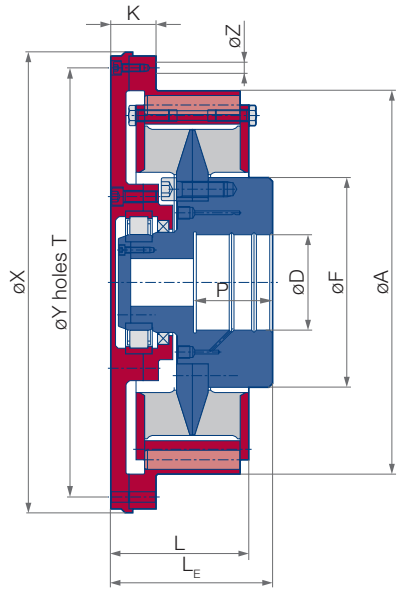


Size	Flywheel	Flywheel connecting dimensions				Hub dimensions						Mass	Mass moments of inertia	
	SAE J620	X_{g7}	$Y_{\pm 0,2}$	Z	T	K	D_{H7}	F	P	A	L	L_E	m [kg]	Primary side J_A[kgm²]	Secondary side J_I[kgm²]
K 070	21	673.15	641.4	17	12	110	140	216	200	584	205	197.4	278	2.844	13.34

Dimensions in mm
Mass and mass moment of inertia are based on the use of steel
Aluminum is available on request
Sizes bigger K 070 are available on request; splined hub (øD) according to DIN/ANSI or on request

Dimensions

Series 371

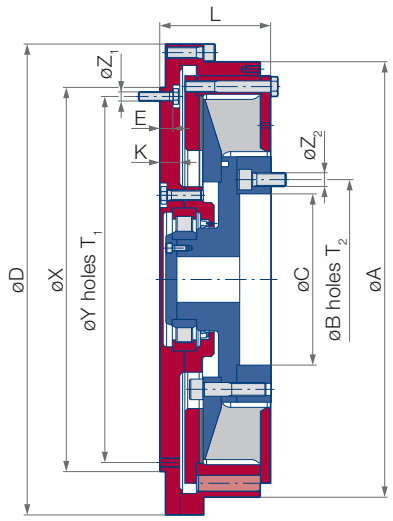


Size	Flywheel	Flywheel connecting dimensions				Hub dimensions						Mass	Mass moments of inertia	
	SAE J620	X_{g7}	$Y_{\pm 0,2}$	Z	T	K	D_{H7}	F	P	A	L	L_E	m [kg]	Primary side J_A[kgm²]	Secondary side J_I[kgm²]
K 040	14	466.7	438.2	14	8	42.5	80	130	130	334	133.1	233.5	72.0	1.777	0.082
K 045	14	466.7	438.2	14	8	40.5	80	130	135	358	130.5	238.5	80.7	1.752	0.105
K 050	14	475.0	438.2	11	12	47.5	95	220	131	402	144.7	215.7	121.4	2.483	0.400

Dimensions in mm
Mass and mass moment of inertia are based on the use of steel
Aluminum is available on request
Sizes bigger K 050 are available on request; splined hub (øD) according to DIN/ANSI or on request

Dimensions

Series 372



Size	Flywheel	Flywheel connecting dimensions						Hub dimensions							Mass	Mass moments of inertia	
	SAE J620	X_{g7}	$Y_{\pm0,2}$	Z_1	T_1	K	E	C_{H7}	$B_{\pm0,2}$	Z_2	T_2	A	L	D	m [kg]	Primary side J_A[kgm²]	Secondary side J_I[kgm²]
K 080	21	673.1	641.35	17	26	35	23	300	350	25	18	763	195	825	480.0	35.021	4.667

Dimensions in mm
Mass and mass moment of inertia are based on the use of steel
Aluminum is available on request
Sizes bigger K 080 are available on request; splined hub (øD) according to DIN/ANSI or on request

Maximum admissible speeds

Series	BR 362			BR 364, 366, 368, 371, 372	
Size	**Aluminum**	**C 45**	**GGG 40**	**C 45**	**GGG 40**
K 005	**13 300**	**11 800**	**10 100**	11 800	10 100
K 010	**11 500**	**10 400**	**8 900**	10 400	8 900
K 015	**10 500**	**9600**	**8 200**	9600	8 200
K 020	**9 700**	**8 700**	**7 400**	8 700	7 400
K 025	**9 000**	**8 100**	**6 900**	8 100	6 900
K 030	**8 000**	**7 200**	**6 200**	7 200	6 200
K 035	**7 400**	**6 700**	**5 700**	6 700	5 700
K 040	**6 800**	**6 100**	**5 200**	6 100	5 200
K 045	**6 100**	**5 600**	**4 800**	5 600	4 800
K 050	**5 600**	**5 000**	**4 300**	5 000	4 300
K 055	**5 000**	**4 500**	**3 800**	4 500	3 800
K 060	**4 300**	**3 900**	**3 400**	3 900	3 400
K 065	**3 900**	**3 500**	**3 000**	3 500	3 000
K 070	**3 400**	**3 100**	**2 700**	3 100	2 700
K 075	**3 100**	**2 800**	**2 400**	2 800	2 400
K 080	**2 800**	**2 500**	**2 200**	2 500	2 200
K 085	**2 500**	**2 300**	**1 900**	2 300	1 900
K 090	**2 200**	**2 000**	**1 700**	2 000	1 700

All speeds stated in rpm
Higher speeds available on request with special designs
Speeds for sizes bigger K 090 available on request

Admissible shaft misalignments

Size	Maximum admissible radial misalignment during load peaks	Continuous admissible radial misalignment r at 600 rpm	Continuous admissible axial misalignment	Continuous admissible angular misalignment at 600 rpm
	[mm]	[mm]	[mm]	[°]
K 005	1.5	1.0	0.9	1
K 010	1.5	1.2	1.0	1
K 015	1.7	1.3	1.2	1
K 020	3.0	1.4	1.4	1
K 025	3.5	1.5	1.5	1
K 030	4.0	1.6	1.7	1
K 035	4.0	1.7	1.8	1
K 040	4.0	1.8	2.0	1
K 045	4.0	2.0	2.1	1
K 050	5.0	2.2	2.3	1
K 055	5.0	2.4	2.8	1
K 060	5.0	2.7	3.1	1
K 065	5.0	3.0	3.5	1
K 070	5.0	3.5	3.9	1
K 075	6.0	3.6	4.3	1
K 080	6.0	4.0	4.8	1
K 085	6.0	4.4	5.3	1
K 090	7.0	4.8	6.0	1

The recommended alignment tolerances are 10 % of the stated admissible shaft misalignment.

Radial displacement of couplings:
The admissible radial displacements for couplings can be stated only with reference to one determined speed since any radial displacement causes additional thermal stress.
The continuous displacement is stated for 600 rpm; at higher speeds n_x,

$$r_{adm} = r \cdot \sqrt{\frac{600}{n_x}}$$, n_x: max. speed

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