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VOITH

Remote 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 remote mounted arrangements are specially designed for applications where driver and driven machines are installed on different foundations and located relatively distant from each other. The driver and the driven machines are then connected via a joint shaft.

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.

Furthermore, the highly flexible coupling supports the weight of the joint shaft, guiding and stiffening it radially. Thus this coupling type is ideally suitable for rail vehicles, construction machinery and engine test rigs. Depending on the size, up to 1 300 000 Nm can be safely transferred.

We offer two different coupling designs for the remote mounted arrangements according to size and length of the joint shaft:

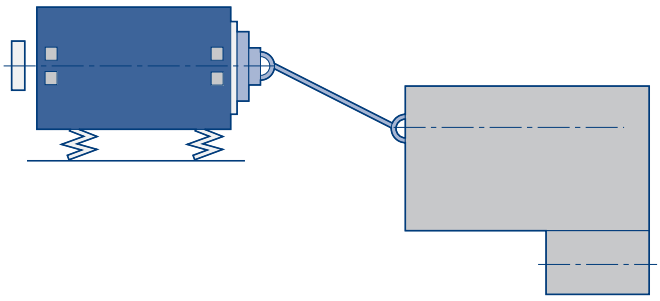
Universal joint shaft couplings

- The bearing which guides the joint shaft is integrated into the coupling design.
- The weight of the joint shaft and coupling is transmitted to the rear crankshaft bearing.
- Depending on the coupling series, friction or antifriction bearings are used.
- These bearings follow any relative twist of the coupling performing an oscillating rotary movement. This is considered both in the bearing design and in the selection of the bearing materials.

Outrigger bearing couplings

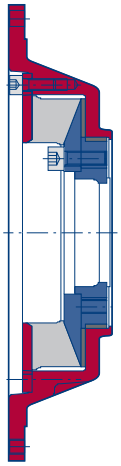
- The coupling comprises of a bearing system for bell-house mounting if the crankshaft bearings of the diesel engine cannot support the weight of joint shaft and coupling.
- The bearing is located inside a bell-housing which is bolted to the engine flywheel housing.
- The weight of the joint shaft is transmitted to the engine flywheel housing.
- The bearing does not carry out a vibrating rotation, it rotates with the joint shaft, and for this reason needle roller bearings are used.

Remote mounted arrangement



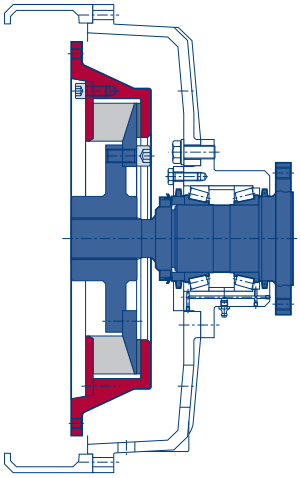
Universal joint shaft coupling

Series 152



Outrigger bearing coupling

Series 142



Product range highly flexible universal joint shaft couplings

Designation	Type of coupling	Bearing type	Frictional damping	Connection	Notes	Page
BR 150	Centred single element coupling	Friction bearing	yes	Engine flywheel – joint shaft	Very short installed length	4, 14
BR 151	Centred single element coupling	Antifriction bearing	yes	Engine flywheel – joint shaft	For higher speeds	4, 15
BR 152	Centred single element coupling	Friction bearing	yes	Engine flywheel – joint shaft		4, 16
BR 153	Centred single element coupling	Antifriction bearing	yes	Flange – joint shaft	For higher speeds	4, 17
BR 154	Centred single element coupling	Friction bearing	yes	Flange – joint shaft		5, 18
BR 155	Centred single element coupling	Friction bearing	yes	Flange – joint shaft	Short installed length	5, 19
BR 157	Centred single element coupling	Friction bearing	yes	Solid shaft – joint shaft	Smallest coupling inertia at universal joint shaft side	5, 20
BR 158	Centred single element coupling	Friction bearing	yes	Solid shaft – joint shaft	Biggest coupling inertia at universal joint shaft side	5, 21
BR 159	Centred twin element coupling with double torsional elasticity	Friction and antifriction bearing	no	Flange – joint shaft	Particularly suitable for engine test rigs	6, 22
BR 160	Centred twin element coupling	Antifriction bearing	no	Engine flywheel – joint shaft	For higher speeds	8, 23
BR 161	Centred twin element coupling	Antifriction bearing	no	Flange – joint shaft	For higher speeds	8, 24
BR 170	Centred twin element coupling	Antifriction bearing	yes	Engine flywheel – joint shaft	For higher speeds	10, 25
BR 171	Centred twin element coupling	Antifriction bearing	yes	Flange – joint shaft	For higher speeds	10, 26
BR 172	Centred twin element coupling	Friction bearing	yes	Engine flywheel – joint shaft		10, 27
BR 173	Centred twin element coupling	Friction bearing	yes	Flange – joint shaft		10, 28
BR 190	Coupling design with longitudinal expansion compensation shaft	Friction bearing	no	Engine flywheel – flange	Particularly suitable for engine test rigs	12, 29
BR 198*	Coupling design consisting of: – highly flexible coupling – synchronising shaft	Friction and antifriction bearing	yes	Engine flywheel – synchronous shaft		
BR 199*	Coupling design consisting of: – highly flexible coupling – joint shaft – connecting elements, if required					

Product range highly flexible outrigger bearing couplings

Designation	Type of coupling	Bearing type	Frictional damping	Connection	Notes
BR 142*	Centred single element coupling as flange bearing	Antifriction bearing	yes	Engine flywheel/housing – joint shaft	Relatively small mass on the flywheel
BR 144*	Centred single element coupling as flange bearing	Antifriction bearing	yes	Engine flywheel/housing – joint shaft	Relatively big mass on the flywheel

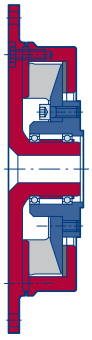
*Coupling parameters and dimensions available on request

Coupling parameters

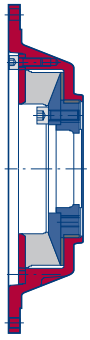
Single standard elastomer element, preloaded, with frictional damping

Series 150

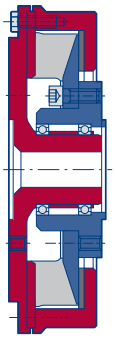
Series 151



Series 152



Series 153

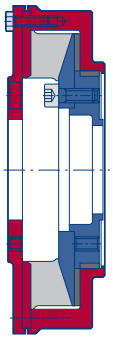


Size	Shore hardness shA [°]	Nominal torque T_{KN} [Nm]	Maximum torque T_{Kmax} [Nm]	Adm. cont. altern. torque T_{KW} [Nm]	Dyn. torsional rigidity C_{Tdyn} [Nm/rad]	Adm. power loss P_{KV} [W]	Relative damping ψ
K 005	N 45	180	540	65	950	90	1.6
	N 50	200	600	70	1 400		
	N 60	220	660	75	2 100		
	N 70	240	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	1 030	3 090	310	17 950		
K 035	N 45	960	2 880	290	4 600	230	1.6
	N 50	1 090	3 270	325	7 600		
	N 60	1 210	3 630	365	11 700		
	N 70	1 330	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	2 400		
	N 70	2 310	6 930	580	39 500		
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		

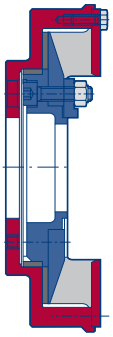
Dyn. torsional rigidity at 20°C

Adm. temperature at the natural rubber surface between -40 to +90 °C

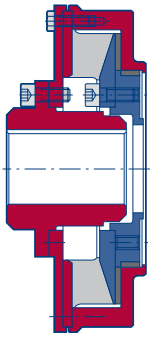
Series 154



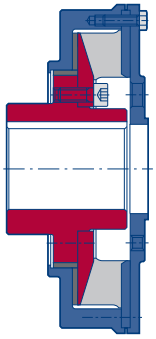
Series 155



Series 157



Series 158



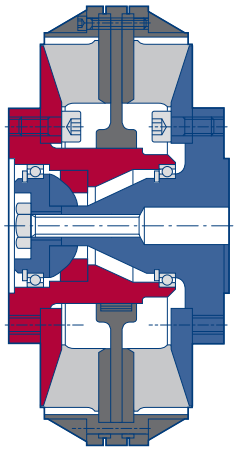
Size	Shore hardness shA [°]	Nominal torque T_{KN} [Nm]	Maximum torque T_{Kmax} [Nm]	Adm. cont. altern. torque T_{KW} [Nm]	Dyn. torsional rigidity C_{Tdyn} [Nm/rad]	Adm. power loss P_{KV} [W]	Relative damping ψ
K 065	N 45	6300	18900	1260	31000	630	1.6
	N 50	7100	21300	1420	50000		
	N 60	7900	23700	1580	77000		
	N 70	8700	26100	1740	149500		
K 070	N 45	9100	27300	1820	44300	760	1.6
	N 50	10200	30600	2040	71500		
	N 60	11400	34200	2280	110000		
	N 70	12500	37500	2500	213400		
K 075	N 45	12400	37200	2480	61000	900	1.6
	N 50	14000	42000	2800	98000		
	N 60	15500	46500	3100	151000		
	N 70	17100	51300	3420	290000		
K 080	N 45	16900	50700	3380	82300	1060	1.6
	N 50	19000	57000	3800	133000		
	N 60	21100	63300	4220	205000		
	N 70	23200	69600	4640	397000		
K 085	N 45	23900	71700	4780	117000	1280	1.6
	N 50	26900	80700	5380	188000		
	N 60	29900	89700	5980	290000		
	N 70	32900	98700	6580	562000		
K 090	N 45	35700	98200	6660	216000	1530	1.6
	N 50	41200	113300	7500	360000		
	N 60	45400	124800	8320	525600		
	N 70	49000	134700	9160	1080000		
K 095	N 45	48500	145500	9700	245000	–	1.6
	N 50	54600	163000	10920	400000		
	N 60	60600	181000	12120	600000		
	N 70	66700	200100	13340	1200000		
K 100	N 45	64400	193200	12880	320000	–	1.6
	N 50	72400	217000	14480	520000		
	N 60	80500	240000	16100	790000		
	N 70	88500	265500	17700	1550000		
K 105	N 45	80000	240000	16000	430000	–	1.6
	N 50	90000	270000	18000	690000		
	N 60	100000	300000	20000	1100000		
	N 70	110000	330000	22000	2100000		
K 110	N 45	105000	315000	21000	620000	–	1.6
	N 50	118000	354000	23600	1000000		
	N 60	131000	390000	26200	1500000		
	N 70	144200	432600	28840	3000000		
K 115	N 45	130000	390000	26000	830000	–	1.6
	N 50	146100	438000	29220	1323000		
	N 60	162300	487000	32460	2000000		
	N 70	178500	535500	35700	4000000		
K 120	N 45	161100	483300	32220	1100000	–	1.6
	N 50	181000	542000	36240	1764000		
	N 60	201300	604000	40260	2700000		
	N 70	221500	664500	44300	5300000		

Dyn. torsional rigidity at 20°C
Adm. temperature at the natural rubber surface between -40 to +90 °C

Coupling parameters

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

Series 159



Size	Shore hardness shA [°]	Nominal torque T_{KN} [Nm]	Maximum torque T_{Kmax} [Nm]	Adm. cont. altern. torque T_{KW} [Nm]	Dyn. torsional rigidity C_{Tdyn} [Nm/rad]	Adm. power loss P_{KV} [W]	Relative damping ψ
K 005	N 45	180	540	65	475	100	0.75
	N 50	200	600	70	700		0.75
	N 60	220	660	75	1 050		0.95
	N 70	240	720	85	2 050		1.15
K 010	N 45	260	780	90	650	130	0.75
	N 50	300	900	105	1 000		0.75
	N 60	330	990	115	1 500		0.95
	N 70	360	1 080	125	3 100		1.15
K 015	N 45	350	1 050	120	850	150	0.75
	N 50	390	1 170	135	1 300		0.75
	N 60	430	1 290	150	2 000		0.95
	N 70	480	1 440	170	4 050		1.15
K 020	N 45	450	1 350	160	1 050	170	0.75
	N 50	510	1 530	180	1 800		0.75
	N 60	570	1 710	200	2 500		0.95
	N 70	620	1 860	215	5 300		1.15
K 025	N 45	590	1 770	180	1 400	200	0.75
	N 50	660	1 980	200	2 300		0.75
	N 60	730	2 190	220	3 400		0.95
	N 70	810	2 430	245	6 800		1.15
K 030	N 45	750	2 250	225	1 800	220	0.75
	N 50	840	2 520	250	3 000		0.75
	N 60	930	2 790	280	4 400		0.95
	N 70	1 030	3 090	310	9 000		1.15
K 035	N 45	960	2 880	290	2 300	250	0.75
	N 50	1 090	3 270	325	3 800		0.75
	N 60	1 210	3 630	365	5 850		0.95
	N 70	1 330	3 990	400	11 300		1.15

Dyn. torsional rigidity at 20°C
Adm. temperature at the natural rubber surface between -40 to +90 °C
Sizes bigger K 060 available on request

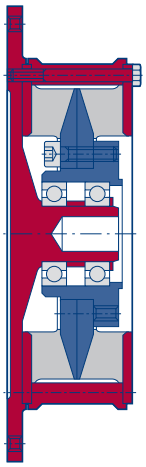
Size	Shore hardness shA [°]	Nominal torque T_{KN} [Nm]	Maximum torque T_{Kmax} [Nm]	Adm. cont. altern. torque T_{KW} [Nm]	Dyn. torsional rigidity C_{Tdyn} [Nm/rad]	Adm. power loss P_{KV} [W]	Relative damping ψ
K 040	N 45	1240	3720	370	3000	290	0.75
	N 50	1400	4200	420	4900		0.75
	N 60	1550	4650	465	7500		0.95
	N 70	1710	5130	515	14550		1.15
K 045	N 45	1680	5040	420	4250	340	0.75
	N 50	1890	5670	470	6650		0.75
	N 60	2100	6300	525	10200		0.95
	N 70	2310	6930	580	19750		1.15
K 050	N 45	2170	6510	540	5250	390	0.75
	N 50	2440	7320	610	8550		0.75
	N 60	2710	8130	680	13000		0.95
	N 70	2990	8970	750	25000		1.15
K 055	N 45	2990	8970	750	7300	460	0.75
	N 50	3360	10080	840	11800		0.75
	N 60	3730	11190	935	18200		0.95
	N 70	4110	12330	1030	35250		1.15
K 060	N 45	4400	13200	1100	10700	570	0.75
	N 50	4950	14850	1240	17350		0.75
	N 60	5500	16500	1375	26500		0.95
	N 70	6050	18150	1515	51700		1.15

Dyn. torsional rigidity at 20°C
Adm. temperature at the natural rubber surface between -40 to +90 °C
Sizes bigger K 060 available on request

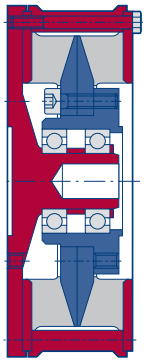
Coupling parameters

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

Series 160



Series 161



Size	Shore hardness shA [°]	Nominal torque T_{KN} [Nm]	Maximum torque T_{Kmax} [Nm]	Adm. cont. altern. torque T_{KW} [Nm]	Dyn. torsional rigidity C_{Tdyn} [Nm/rad]	Adm. power loss P_{KV} [W]	Relative damping ψ
K 005	N 45	360	1 080	130	1 900	100	0.75
	N 50	400	1 200	140	2 800		0.75
	N 60	440	1 320	150	4 200		0.95
	N 70	480	1 440	170	8 200		1.15
K 010	N 45	520	1 560	180	2 600	130	0.75
	N 50	600	1 800	210	4 000		0.75
	N 60	660	1 980	230	6 000		0.95
	N 70	720	2 160	250	12 400		1.15
K 015	N 45	700	2 100	240	3 400	150	0.75
	N 50	780	2 340	270	5 200		0.75
	N 60	860	2 580	300	8 000		0.95
	N 70	960	2 880	340	16 200		1.15
K 020	N 45	900	2 700	320	4 200	170	0.75
	N 50	1 020	3 060	360	7 200		0.75
	N 60	1 140	3 420	400	10 000		0.95
	N 70	1 240	3 720	430	21 200		1.15
K 025	N 45	1 180	3 540	360	5 600	200	0.75
	N 50	1 320	3 960	400	9 200		0.75
	N 60	1 460	4 380	440	13 600		0.95
	N 70	1 620	4 860	490	27 200		1.15
K 030	N 45	1 500	4 500	450	7 200	220	0.75
	N 50	1 680	5 040	500	12 000		0.75
	N 60	1 860	5 580	560	17 600		0.95
	N 70	2 060	6 180	620	35 900		1.15
K 035	N 45	1 920	5 760	580	9 200	250	0.75
	N 50	2 180	6 540	650	15 200		0.75
	N 60	2 420	7 260	730	23 400		0.95
	N 70	2 660	7 980	800	45 200		1.15
K 040	N 45	2 480	7 440	740	12 000	290	0.75
	N 50	2 800	8 400	840	19 600		0.75
	N 60	3 100	9 300	930	30 000		0.95
	N 70	3 420	10 260	1030	58 200		1.15
K 045	N 45	3 360	10 080	840	17 000	340	0.75
	N 50	3 780	11 340	940	26 600		0.75
	N 60	4 200	12 600	1 050	40 800		0.95
	N 70	4 620	13 860	1 160	79 000		1.15
K 050	N 45	4 340	13 020	1 080	21 000	390	0.75
	N 50	4 880	14 640	1 220	34 200		0.75
	N 60	5 420	16 260	1 360	52 000		0.95
	N 70	5 980	17 940	1 500	100 000		1.15

Dyn. torsional rigidity at 20°C

Adm. temperature at the natural rubber surface between -40 to +90 °C

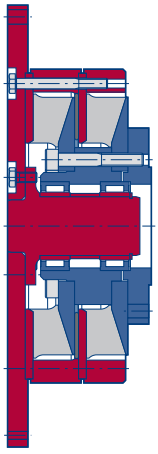
Size	Shore hardness shA [°]	Nominal torque T_{KN} [Nm]	Maximum torque T_{Kmax} [Nm]	Adm. cont. altern. torque T_{KW} [Nm]	Dyn. torsional rigidity C_{Tdyn} [Nm/rad]	Adm. power loss P_{KV} [W]	Relative damping ψ
K 055	N 45	5980	17940	1500	29200	460	0.75
	N 50	6720	20160	1680	47200		0.75
	N 60	7460	22380	1870	72800		0.95
	N 70	8220	24660	2060	141000		1.15
K 060	N 45	8800	26400	2200	42800	570	0.75
	N 50	9900	29700	2480	69400		0.75
	N 60	11000	33000	2750	106000		0.95
	N 70	12100	36300	3030	206800		1.15
K 065	N 45	12600	37800	2520	62000	690	0.75
	N 50	14200	42600	2840	100000		0.75
	N 60	15800	47400	3160	154000		0.95
	N 70	17400	52200	3480	299000		1.15
K 070	N 45	18200	54600	3640	88600	840	0.75
	N 50	20400	61200	4080	143000		0.75
	N 60	22800	68400	4560	220000		0.95
	N 70	25000	75000	5000	426800		1.15
K 075	N 45	24800	74400	4960	122000	980	0.75
	N 50	28000	84000	5600	196000		0.75
	N 60	31000	93000	6200	302000		0.95
	N 70	34200	102600	6840	580000		1.15
K 080	N 45	33800	101400	6760	164600	1160	0.75
	N 50	38000	114000	7600	266000		0.75
	N 60	42200	126600	8440	410000		0.95
	N 70	46400	139200	9280	794000		1.15
K 085	N 45	47800	143400	9560	234000	1390	0.75
	N 50	53800	161400	10760	376000		0.75
	N 60	59800	179400	11960	580000		0.95
	N 70	65800	197400	13160	1124000		1.15
K 090	N 45	71400	196400	13320	432000	1660	0.75
	N 50	82400	226600	15000	720000		0.75
	N 60	90800	249600	16640	1051200		0.95
	N 70	98000	269400	18320	2160000		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

Dyn. torsional rigidity at 20°C
Adm. temperature at the natural rubber surface between -40 to +90 °C

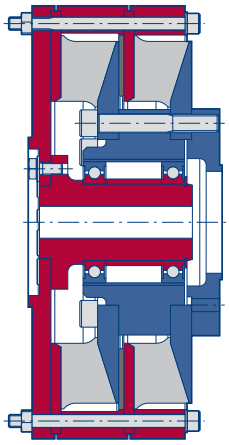
Coupling parameters

Twin standard elastomer elements in parallel, preloaded, with friction damping

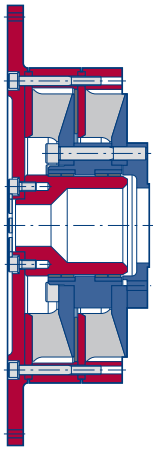
Series 170



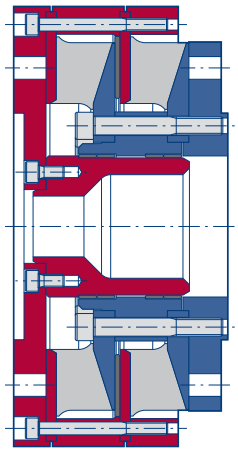
Series 171



Series 172



Series 173



Size	Shore hardness shA [°]	Nominal torque T_{KN} [Nm]	Maximum torque T_{Kmax} [Nm]	Adm. cont. altern. torque T_{KW} [Nm]	Dyn. torsional rigidity C_{Tdyn} [Nm/rad]	Adm. power loss P_{KV} [W]	Relative damping ψ
K 005	N 45	360	1 080	130	1 900	140	1.6
	N 50	400	1 200	140	2 800		
	N 60	440	1 320	150	4 200		
	N 70	480	1 440	170	8 200		
K 010	N 45	520	1 560	180	2 600	175	1.6
	N 50	600	1 800	210	4 000		
	N 60	660	1 980	230	6 000		
	N 70	720	2 160	250	12 400		
K 015	N 45	700	2 100	240	3 400	205	1.6
	N 50	780	2 340	270	5 200		
	N 60	860	2 580	300	8 000		
	N 70	960	2 880	340	16 200		
K 020	N 45	900	2 700	320	4 200	235	1.6
	N 50	1 020	3 060	360	7 200		
	N 60	1 140	3 420	400	10 000		
	N 70	1 240	3 720	430	21 200		
K 025	N 45	1 180	3 540	360	5 600	270	1.6
	N 50	1 320	3 960	400	9 200		
	N 60	1 460	4 380	440	13 600		
	N 70	1 620	4 860	490	27 200		
K 030	N 45	1 500	4 500	450	7 200	310	1.6
	N 50	1 680	5 040	500	12 000		
	N 60	1 860	5 580	560	17 600		
	N 70	2 060	6 180	620	35 900		
K 035	N 45	1 920	5 760	580	9 200	355	1.6
	N 50	2 180	6 540	650	15 200		
	N 60	2 420	7 260	730	23 400		
	N 70	2 660	7 980	800	45 200		
K 040	N 45	2 480	7 440	740	12 000	405	1.6
	N 50	2 800	8 400	840	19 600		
	N 60	3 100	9 300	930	30 000		
	N 70	3 420	10 260	1 030	58 200		
K 045	N 45	3 360	10 080	840	17 000	480	1.6
	N 50	3 780	11 340	940	26 600		
	N 60	4 200	12 600	1 050	40 800		
	N 70	4 620	13 860	1 160	79 000		
K 050	N 45	4 340	13020	1 080	21 000	545	1.6
	N 50	4 880	14640	1 220	34 200		
	N 60	5 420	16260	1 360	52 000		
	N 70	5 980	17940	1 500	100 000		

Dyn. torsional rigidity at 20°C

Adm. temperature at the natural rubber surface between -40 to +90 °C

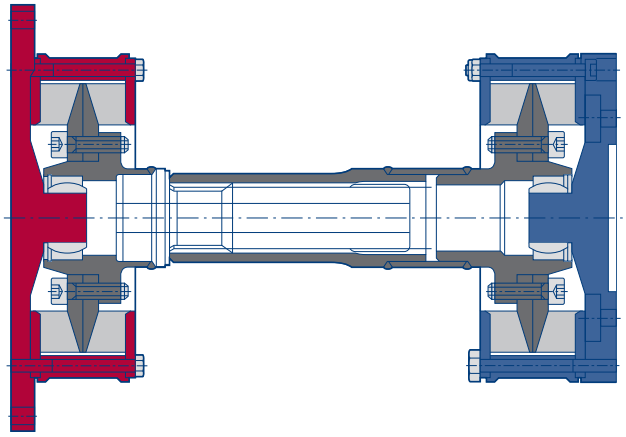
Size	Shore hardness shA [°]	Nominal torque T_{KN} [Nm]	Maximum torque T_{Kmax} [Nm]	Adm. cont. altern. torque T_{KW} [Nm]	Dyn. torsional rigidity C_{Tdyn} [Nm/rad]	Adm. power loss P_{KV} [W]	Relative damping ψ
K 055	N 45	5 980	17 940	1 500	29 200	650	1.6
	N 50	6 720	20 160	1 680	47 200		
	N 60	7 460	22 380	1 870	72 800		
	N 70	8 220	24 660	2 060	141 000		
K 060	N 45	8 800	26 400	2 200	42 800	795	1.6
	N 50	9 900	29 700	2 480	69 400		
	N 60	11 000	33 000	2 750	106 000		
	N 70	12 100	36 300	3 030	206 800		
K 065	N 45	12 600	37 800	2 520	62 000	975	1.6
	N 50	14 200	42 600	2 840	100 000		
	N 60	15 800	47 400	3 160	154 000		
	N 70	17 400	52 200	3 480	299 000		
K 070	N 45	18 200	54 600	3 640	88 600	1 180	1.6
	N 50	20 400	61 200	4 080	143 000		
	N 60	22 800	68 400	4 560	220 000		
	N 70	25 000	75 000	5 000	426 800		
K 075	N 45	24 800	74 400	4 960	122 000	1 390	1.6
	N 50	28 000	84 000	5 600	196 000		
	N 60	31 000	93 000	6 200	302 000		
	N 70	34 200	102 600	6 840	580 000		
K 080	N 45	33 800	101 400	6 760	164 600	1 640	1.6
	N 50	38 000	114 000	7 600	266 000		
	N 60	42 200	126 600	8 440	410 000		
	N 70	46 400	139 200	9 280	794 000		
K 085	N 45	47 800	143 400	9 560	234 000	1 975	1.6
	N 50	53 800	161 400	10 760	376 000		
	N 60	59 800	179 400	11 960	580 000		
	N 70	65 800	197 400	13 160	1 124 000		
K 090	N 45	71 400	196 400	13 320	432 000	2 360	1.6
	N 50	82 400	226 600	15 000	720 000		
	N 60	90 800	249 600	16 640	1 051 200		
	N 70	98 000	269 400	18 320	2 160 000		
K 095	N 45	97 000	291 000	19 400	490 000	–	1.6
	N 50	109 200	326 000	21 840	800000		
	N 60	121 200	362 000	24 240	1 200 000		
	N 70	133 400	400 200	26 680	2 400 000		
K 100	N 45	128 800	386 400	25 760	640 000	–	1.6
	N 50	144 800	434 000	28 960	1 040 000		
	N 60	161 000	480 000	32 200	1 580 000		
	N 70	177 000	531 000	35 400	3 100 000		
K 105	N 45	160 000	480 000	32 000	860 000	–	1.6
	N 50	180 000	540 000	36 000	1 380 000		
	N 60	200 000	600 000	40 000	2 200 000		
	N 70	220 000	660 000	44 000	4 200 000		
K 110	N 45	210 000	630 000	42 000	1 240 000	–	1.6
	N 50	236 000	708 000	47 200	2 000 000		
	N 60	262 000	780 000	52 400	3 000 000		
	N 70	288 400	865 200	57 680	6 000 000		
K 115	N 45	260 000	780 000	52 000	1 660 000	–	1.6
	N 50	292 200	876 000	58 440	2 646 000		
	N 60	324 600	974 000	64 920	4 000 000		
	N 70	357 000	1 071 000	71 400	8 000 000		
K 120	N 45	322 200	966 600	64 440	2 200 000	–	1.6
	N 50	362 000	1 084 000	72 480	3 528 000		
	N 60	402 600	1 208 000	80 520	5 400 000		
	N 70	443 000	1 329 000	88 600	10 600 000		

Dyn. torsional rigidity at 20°C
Adm. temperature at the natural rubber surface between -40 to +90 °C

Coupling parameters

Two couplings in series with two parallel standard elastomer elements each, preloaded without friction damping

Series 190



Size	Shore hardness shA [°]	Nominal torque T_{KN} [Nm]	Maximum torque T_{Kmax} [Nm]	Adm. cont. altern. torque T_{KW} [Nm]	Dyn. torsional rigidity C_{Tdyn} [Nm/rad]	Adm. power loss P_{KV} [W]	Relative damping ψ
K 005	N 45	360	1 080	130	950	200	0.75
	N 50	400	1 200	140	1 400		0.75
	N 60	440	1 320	150	2 100		0.95
	N 70	480	1 440	170	4 100		1.15
K 010	N 45	520	1 560	180	1 300	260	0.75
	N 50	600	1 800	210	2 000		0.75
	N 60	660	1 980	230	3 000		0.95
	N 70	720	2 160	250	6 200		1.15
K 015	N 45	700	2 100	240	1 700	300	0.75
	N 50	780	2 340	270	2 600		0.75
	N 60	860	2 580	300	4 000		0.95
	N 70	960	2 880	340	8 100		1.15
K 020	N 45	900	2 700	320	2 100	340	0.75
	N 50	1 020	3 060	360	3 600		0.75
	N 60	1 140	3 420	400	5 000		0.95
	N 70	1 240	3 720	430	10 600		1.15
K 025	N 45	1 180	3 540	360	2 800	400	0.75
	N 50	1 320	3 960	400	4 600		0.75
	N 60	1 460	4 380	440	6 800		0.95
	N 70	1 620	4 860	490	13 600		1.15
K 030	N 45	1 500	4 500	450	3 600	440	0.75
	N 50	1 680	5 040	500	6 000		0.75
	N 60	1 860	5 580	560	8 800		0.95
	N 70	2 060	6 180	620	17 950		1.15
K 035	N 45	1 920	5 760	580	4 600	500	0.75
	N 50	2 180	6 540	650	7 600		0.75
	N 60	2 420	7 260	730	11 700		0.95
	N 70	2 660	7 980	800	22 600		1.15

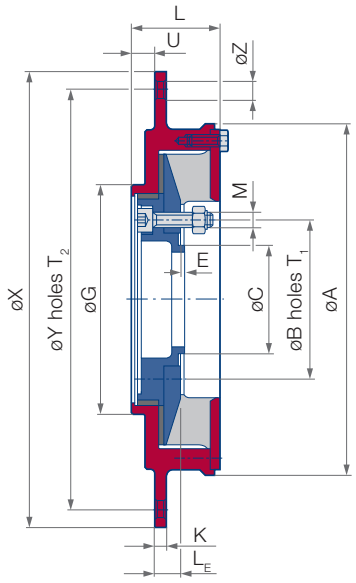
Dyn. torsional rigidity at 20°C
Adm. temperature at the natural rubber surface between -40 to +90 °C

Size	Shore hardness shA [°]	Nominal torque T_{KN} [Nm]	Maximum torque T_{Kmax} [Nm]	Adm. cont. altern. torque T_{KW} [Nm]	Dyn. torsional rigidity C_{Tdyn} [Nm/rad]	Adm. power loss P_{KV} [W]	Relative damping ψ
K 040	N 45	2480	7440	740	6000	580	0.75
	N 50	2800	8400	840	9800		0.75
	N 60	3100	9300	930	15000		0.95
	N 70	3420	10260	1030	29100		1.15
K 045	N 45	3360	10080	840	8500	680	0.75
	N 50	3780	11340	940	13300		0.75
	N 60	4200	12600	1050	20400		0.95
	N 70	4620	13860	1160	39500		1.15
K 050	N 45	4340	13020	1080	10500	780	0.75
	N 50	4880	14640	1220	17100		0.75
	N 60	5420	16260	1360	26000		0.95
	N 70	5980	17940	1500	50000		1.15
K 055	N 45	5980	17940	1500	14600	920	0.75
	N 50	6720	20160	1680	23600		0.75
	N 60	7460	22380	1870	36400		0.95
	N 70	8220	24660	2060	70500		1.15
K 060	N 45	8800	26400	2200	21400	1140	0.75
	N 50	9900	29700	2480	34700		0.75
	N 60	11000	33000	2750	53000		0.95
	N 70	12100	36300	3030	103400		1.15
K 065	N 45	12600	37800	2520	31000	1380	0.75
	N 50	14200	42600	2840	50000		0.75
	N 60	15800	47400	3160	77000		0.95
	N 70	17400	52200	3480	149500		1.15
K 070	N 45	18200	54600	3640	44300	1680	0.75
	N 50	20400	61200	4080	71500		0.75
	N 60	22800	68400	4560	110000		0.95
	N 70	25000	75000	5000	213400		1.15

Dyn. torsional rigidity at 20°C
Adm. temperature at the natural rubber surface between -40 to +90 °C
Sizes bigger K 070 available on request

Dimensions

Series 150

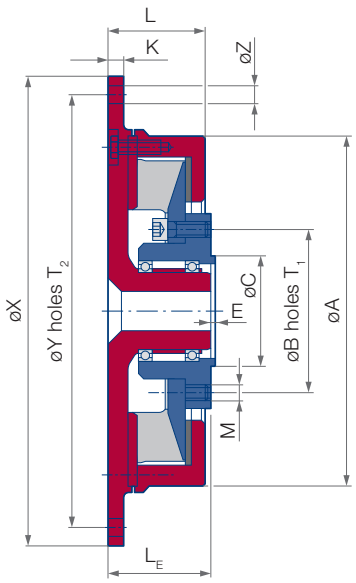


Size	Flywheel	Flywheel connecting dimensions							Joint shaft connecting dimensions									Mass	Mass moments of inertia	
	SAE J620	X_{g7}	$Y_{\pm 0,2}$	Z	T_2	K	G	U	Flange diameter	C_{g7}	$B_{\pm 0,2}$	M	T_1	E	A	L	L_E	m [kg]	Primary side J_A [kgm²]	Secondary side J_I [kgm²]
K 005	6.5	215.9	200.0	9	6	8	110	10	90	47	74.5	8	4	2	166	42.2	13.0	4.3	0.020	0.002
	7.5	241.3	222.3	9	8	8		10									13.0	4.8	0.027	0.002
K 010	7.5	241.3	222.3	9	8	8	122	10	100	57	84	8	6	2	186	46.7	16.0	5.5	0.031	0.004
	8	263.5	244.5	11	6	8		10									16.0	6.0	0.040	0.004
K 015	7.5	241.3	222.3	9	8	8	122	10	100	57	84	8	6	2	198	49.8	17.8	6.4	0.039	0.006
	8	263.5	244.5	11	6	10		10									17.8	7.3	0.052	0.006
K 020	8	263.5	244.5	11	6	10	144	10	120	75	101.5	10	8	2	226	54.4	19.0	8.8	0.072	0.008
	10	314.3	295.3	11	8	10		13									16.0	10.5	0.107	0.008
K 025	10	314.3	295.3	11	8	10	144	13	120	75	101.5	10	8	2	240	56.7	18.4	11.4	0.113	0.012
	11.5	352.4	333.4	11	8	10		26									5.4	12.9	0.154	0.012
K 030	10	314.3	295.3	11	8	11	180	13	150	90	130	12	8	2	266	65.7	22.4	14.2	0.144	0.024
	11.5	352.4	333.4	11	8	11		26									9.4	15.7	0.184	0.024
	14	466.7	438.2	14	8	12		26									9.4	22.7	0.474	0.024
K 035	11.5	352.4	333.4	11	8	12	180	26	150	90	130	12	8	2	284	68.0	10.8	16.5	0.210	0.030
	14	466.7	438.2	14	8	12		26									10.8	23.4	0.497	0.030
K 040	11.5	352.4	333.4	11	8	14	210	26	180	110	155.5	14	8	2	316	76.7	15.3	20.6	0.278	0.052
	14	466.7	438.2	14	8	12		26									15.3	27.4	0.563	0.052
K 045	14	466.7	438.2	14	8	12	216	25	180	110	155.5	14	8	2	340	84.2	22.6	32.3	0.649	0.085
K 050	14	466.7	438.2	14	8	12	258	25	225	140	196	16	8	4	380	92.5	23.6	37.6	0.816	0.137
K 055	16	517.5	489.0	14	8	12	286	25	250	140	218	18	8	4	424	104.1	29.0	50.9	1.35	0.233
K 060	18	571.5	542.9	18	6	16	322	29	285	175	245	20	8	5	476	116.2	31.4	73.0	2.44	0.429
K 065	21	673.1	641.4	18	12	16	363	29	315	175	280	22	8	5	534	129.5	38.0	104.0	4.55	0.774
K 070	21	673.1	641.4	18	12	16	400	29	350	220	310	22	10	6	594	144.7	46.6	132.0	6.35	1.33
	24	733.4	692.2	20	12	18		29									46.6	140.0	7.33	1.33
K 075	24	733.4	692.2	20	12	18	444	24	390	250	345	24	10	6	656	159.5	58.2	173.0	10.04	2.26
K 080	-	786.0	750.0	24	12	22	491	60	435	280	385	27	10	8	726	175.2	28.8	260.0	18.71	3.70

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

Dimensions

Series 151

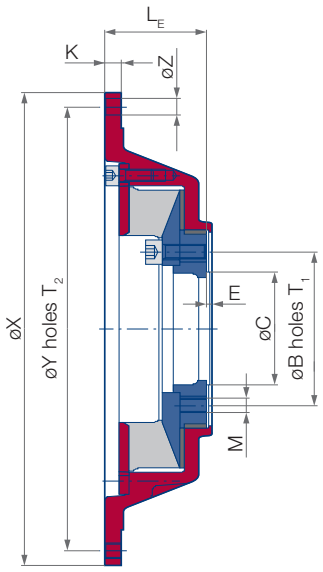


Size	Flywheel	Flywheel connecting dimensions				Joint shaft connecting dimensions									Mass	Mass moments of inertia	
	SAE J620	X_{g7}	$Y_{\pm 0,2}$	Z	T_2	K	Flange diameter	C_{g7}	$B_{\pm 0,1}$	M	T_1	E	A	L	L_E	m [kg]	Primary side J_A [kgm²]	Secondary side J_I [kgm²]
K 005	6.5	215.9	200.0	9	6	8	90	47	74.5	8	4	2	162	45.2	50	6.7	0.024	0.002
	7.5	241.3	222.3	9	8	8										7.3	0.031	0.002
K 010	7.5	241.3	222.3	9	8	8	90	47	74.5	8	4	2	180	47.7	50	8.0	0.038	0.004
	8	263.5	244.5	11	6	8	100	57	84	8	6	2				8.9	0.052	0.004
K 015	7.5	241.3	222.3	9	8	8	90	47	74.5	8	4	2	192	50.8	52	8.9	0.047	0.006
	8	263.5	244.5	11	6	10	100	57	84	8	6	2				9.8	0.059	0.006
K 020	8	263.5	244.5	11	6	10	100	57	84	8	6	2	220	56.4	63	13.1	0.083	0.008
	10	314.3	295.3	11	8	10	120	75	101.5	10	8	2				14.8	0.119	0.008
K 025	10	314.3	295.3	11	8	10	100	57	84	8	6	2	234	58.7	63	16.6	0.141	0.012
	11.5	352.4	333.4	11	8	10	120	75	101.5	10	8	2				18.1	0.183	0.012
K 030	10	314.3	295.3	11	8	11	120	75	101.5	10	8	2	260	67.7	70	20.7	0.190	0.025
	11.5	352.4	333.4	11	8	11	120	75	101.5	10	8	2				22.5	0.240	0.025
	14	466.7	438.2	14	8	12	150	90	130	12	8	2				29.1	0.523	0.024
K 035	11.5	352.4	333.4	11	8	12	120	75	101.5	10	8	2	278	70.0	76	24.9	0.277	0.032
	14	466.7	438.2	14	8	12	150	90	130	12	8	2				31.5	0.558	0.031
K 040	11.5	352.4	333.4	11	8	14	150	90	130	12	8	2	308	77.7	82	31.5	0.370	0.055
	14	466.7	438.2	14	8	12	180	110	155.5	14	8	2				39.3	0.700	0.055
K 045	14	466.7	438.2	14	8	12	150	90	130	12	8	2	332	82.2	88	43.9	0.805	0.083
							180	110	155.5	14	8	2				43.9	0.805	0.082
K 050	14	466.7	438.2	14	8	14	180	110	155.5	14	8	2	372	93.5	97	56.7	1.06	0.143
	16	517.5	489.0	14		14	225	140	196	16	8	4				61.1	1.32	0.142
K 055	14	466.7	438.2	14	8	21	225	140	196	16	8	4	416	104.1	110	74.5	1.60	0.242
	16	517.5	489.0	14		14	250	140	218	18	8	4				78.9	1.86	0.240
K 060	16	517.5	489.0	18	6	23	250	140	218	18	8	4	466	117.2	123	104.8	2.76	0.454
	18	571.5	542.9			18	285	175	245	20	8	5				110.5	3.15	0.453
K 065	21	673.1	641.4	18	12	16	285	175	245	20	8	5	524	130.5	137	145	5.75	0.768
	24	733.4	692.2			18	315	175	280	22	8	5				155	6.90	0.768
K 070	21	673.1	641.4	18	12	18	315	175	280	22	8	5	584	142.7	145	186	7.59	0.993
	24	733.4	692.2	20	12	18	350	220	310	22	10	6				193	8.70	0.968
K 075	21	733.4	692.2	20	12	20	350	220	310	22	10	6	644	159.5	160	245	13.03	2.41
	24						390	250	345	24	10	6				244	13.03	2.38
K 080	-	798.0	762.0	24	12	24	390	250	345	24	10	6	714	176.2	177	334	21.46	3.80
							435	280	385	27	10	8				332	21.46	3.74

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

Dimensions

Series 152



Size	Flywheel	Flywheel connecting dimensions					Joint shaft connecting dimensions							Mass	Mass moments of inertia	
	SAE J620	X_{g7}	$Y_{\pm0,2}$	Z	T_2	K	Flange diameter	C_{g7}	$B_{\pm0,1}$	M	T_1	E	L_E	m [kg]	Primary side J_A [kgm²]	Secondary side J_I [kgm²]
K 005	6.5	215.9	200.0	9	6	8	90	47	74.5	8	4	2	49.2	4.9	0.023	0.002
	7.5	241.3	222.3	9	8	8								5.5	0.030	0.002
K 010	7.5	241.3	222.3	9	8	8	90	47	74.5	8	4	2	53.7	6.5	0.036	0.005
	8	263.5	244.5	11	6	8	100	57	84	8	6	2	53.7	7.0	0.045	0.005
K 015	7.5	241.3	222.3	9	8	8	90	47	74.5	8	4	2	52.8	6.6	0.040	0.006
	8	263.5	244.5	11	6	10	100	57	84	8	6	2	52.8	7.1	0.048	0.006
K 020	8	263.5	244.5	11	6	10	100	57	84	8	6	2	65	8.9	0.068	0.009
	10	314.3	295.3	11	8	10	120	75	101.5	10	8	2	60	10.0	0.095	0.009
K 025	10	314.3	295.3	11	8	10	100	57	84	8	6	2	61.2	12.5	0.122	0.014
	11.5	352.4	333.4	11	8	10	120	75	101.5	10	8	2	61.2	14.0	0.165	0.014
K 030	10	314.3	295.3	11	8	11	120	75	101.5	10	8	2	70	13.6	0.131	0.026
	11.5	352.4	333.4	11	8	11	120	75	101.5	10	8	2	70	15.3	0.177	0.026
	14	466.7	438.2	14	8	12	150	90	130	12	8	2	70	22.5	0.466	0.025
K 035	11.5	352.4	333.4	11	8	12	120	75	101.5	10	8	2	74	21.0	0.246	0.034
	14	466.7	438.2	14	8	12	150	90	130	12	8	2	74	27.0	0.521	0.033
K 040	11.5	352.4	333.4	11	8	14	150	90	130	12	8	2	81	21.0	0.262	0.058
	14	466.7	438.2	14	8	12	180	110	155.5	14	8	2	81	26.2	0.530	0.054
K 045	14	466.7	438.2	14	8	12	150	90	130	12	8	2	89	31.7	0.590	0.090
							180	110	155.5	14	8	2	89	30.9	0.590	0.086
K 050	14	466.7	438.2	14	8	12	180	110	155.5	14	8	2	105.5	39.7	0.800	0.148
							225	140	196	16	8	4	105.5	38.2	0.800	0.140
K 055	14	466.7	438.2	14	8	30	180	110	155.5	14	8	2	115.8	56.6	1.41	0.256
							225	140	196	16	8	4	115.8	54.6	1.41	0.246
K 060	16	517.5	489.0	14	8	42	225	140	196	16	8	4	123.2	73.3	2.24	0.454
	18	571.5	542.9	18	6	42	250	140	218	18	8	4	123.2	85.3	3.16	0.454
K 065	18	571.5	542.9	18	6	45	225	140	196	16	8	4	136.5	101	3.56	0.846
	21	673.1	641.4	18	12	22	250	140	218	18	8	4	136.5	121	5.38	0.846
K 070	21	673.1	641.4	18	12	40	285	175	245	20	8	5	158	154	7.82	1.42
	24	733.4	692.2	20	12		315	175	280	22	8	5	158	154	7.82	1.42
K 075	24	733.4	692.2	20	12	39	285	175	245	20	8	5	169	211	12.48	2.55
							315	175	280	22	8	5	169	211	12.48	2.55
K 080	-	798.0	762.0	24	12	24	435	280	385	27	10	8	200	276	20.23	3.80

Dimensions in mm

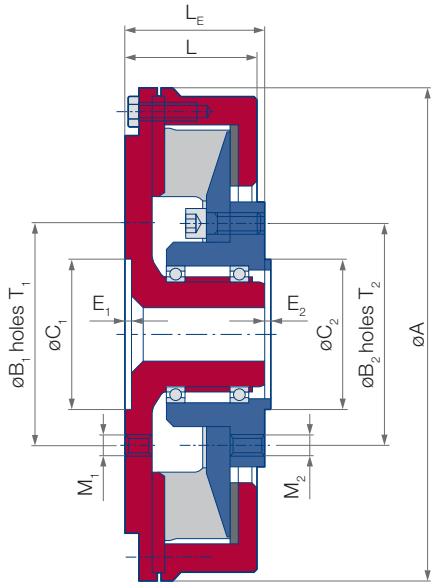
Mass and mass moment of inertia are based on the use of steel

Aluminum is available on request

Sizes bigger K 080 are available on request

Dimensions

Series 153

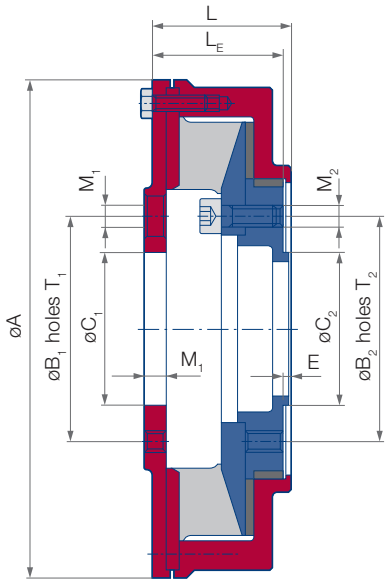


Size	Flange connecting dimensions						Joint shaft connecting dimensions									Mass	Mass moments of inertia	
	Flange diameter	$C_{1,H7}$	$B_{1±0,1}$	M_1	T_1	E_1	Flange diameter	$C_{2,g7}$	$B_{2,±0,1}$	M_2	T_2	E_2	A	L	L_E	m [kg]	Primary side J_A [kgm²]	Secondary side J_I [kgm²]
K 005	90	47	74.5	8	4	2.5	90	47	74.5	8	4	2	166	45.2	50	5.8 5.8	0.015	0.002
K 010	100	57	84	8	6	2.5	90 100	47 57	74.5 84	8 8	4 6	2 2	186	47.7	50	6.9 6.9	0.025	0.004 0.004
K 015	100	57	84	8	6	2.5	90 100	47 57	74.5 84	8 8	4 6	2 2	198	50.8	52	8.0 8.0	0.036	0.006 0.006
K 020	120	75	101.5	10	8	2.5	100 120	57 75	84 101.5	8 10	6 8	2 2	226	56.4	63	12.0 12.0	0.066	0.008 0.008
K 025	120	75	101.5	10	8	2.5	100 120	57 75	84 101.5	8 10	6 8	2 2	240	58.7	63	14.0 14.0	0.092	0.012 0.012
K 030	150	90	130	12	8	2.5	120 150	75 90	101.5 130	10 12	8 8	2 2	266	67.7	70	18.7 18.8	0.146	0.025 0.024
K 035	150	90	130	12	8	2.5	120 150	75 90	101.5 130	10 12	8 8	2 2	284	70.0	76	21.7 21.8	0.219	0.032 0.031
K 040	180	110	155.5	14	8	2.5	150 180	90 110	130 155.5	12 14	8 8	2 2	316	77.7	82	29.5 29.6	0.312	0.055 0.055
K 045	180	110	155.5	14	8	2.5	150 180	90 110	130 155.5	12 14	8 8	2 2	340	82.2	88	36.4 36.4	0.492	0.083 0.082
K 050	225	140	196	16	8	5	180 225	110 140	155.5 196	14 16	8 8	2 4	380	93.5	97	50.4 50.5	0.780	0.143 0.142
K 055	250	140	218	18	8	6	225 250	140 140	196 218	16 18	8 8	4 4	424	104.1	110	69.6 69.7	1.36	0.242 0.240
K 060	285	175	245	20	8	7	250 285	140 175	218 245	18 20	8 8	4 5	476	117.2	123	99.0 99.5	2.40	0.454 0.453
K 065	315	175	280	22	8	7	285 315	175 175	245 280	20 22	8 8	5 5	534	130.5	137	129 130	4.23	0.768 0.768
K 070	350	220	310	22	10	8	315 350	175 220	280 310	22 22	8 10	5 6	594	142.7	145	175 173	6.47	0.993 0.968
K 075	390	250	345	24	10	8	350 390	220 250	310 345	22 24	10 10	6 6	656	159.5	160	232 230	11.44	2.41 2.38
K 080	435	280	385	27	10	10	390 435	250 280	345 385	24 27	10 10	6 8	726	176.2	177	318 316	19.11	3.80 3.74

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

Dimensions

Series 154

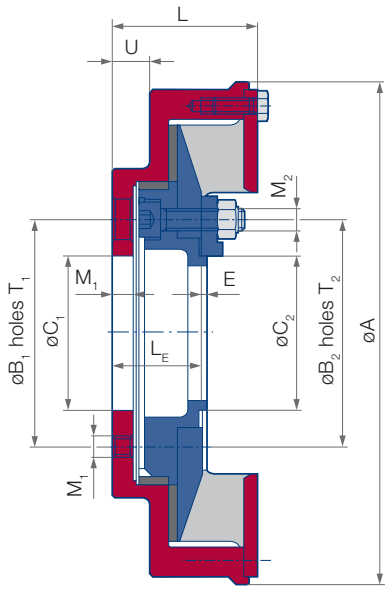


Size	Flange connecting dimensions					Joint shaft connecting dimensions									Mass	Mass moments of inertia	
	Flange diameter	$C_{1,H7}$	$B_{1±0,1}$	M_1	T_1	Flange diameter	$C_{2,g7}$	$B_{2,±0,1}$	M_2	T_2	E	A	L	L_E	m [kg]	Primary side J_A [kgm²]	Secondary side J_I [kgm²]
K 005	90	47	74.5	8	4	90	47	74.5	8	4	2	166	50.2	47.2	4.6	0.014	0.002
K 010	100	57	84	8	6	100	57	84	8	6	2	186	54.7	51.7	6.0	0.023	0.005
K 015	100	57	84	8	6	100	57	84	8	6	2	198	57.8	54.8	7.2	0.033	0.007
K 020	120	75	101.5	10	8	120	75	101.5	10	8	2	226	64.4	61.4	10.2	0.065	0.009
K 025	120	75	101.5	10	8	120	75	101.5	10	8	2	240	66.7	63.7	12.4	0.088	0.013
K 030	150	90	130	12	8	150	90	130	12	8	2	266	77.7	74.7	16.4	0.142	0.026
K 035	150	90	130	12	8	150	90	130	12	8	2	284	80.0	77.0	19.8	0.198	0.032
K 040	180	110	155.5	14	8	180	110	155.5	14	8	2	316	90.7	87.7	26.3	0.315	0.057
K 045	180	110	155.5	14	8	180	110	155.5	14	8	2	340	98.2	95.2	34.7	0.466	0.090
K 050	225	140	196	16	8	225	140	196	16	8	4	380	108.5	104.5	44.3	0.789	0.148
K 055	250	140	218	18	8	250	140	218	18	8	4	424	122.1	118.1	62.2	1.37	0.251
K 060	285	175	245	20	8	285	175	245	20	8	5	476	136.2	132.2	85.6	2.37	0.460
K 065	315	175	280	22	8	315	175	280	22	8	5	534	151.5	147.5	122	4.25	0.830
K 070	350	220	310	22	10	350	220	310	22	10	6	594	166.7	161.7	166	7.30	1.40
K 075	390	250	345	24	10	390	250	345	24	10	6	656	183.5	178.5	223	11.98	2.34
K 080	435	280	385	27	10	435	280	385	27	10	8	726	202.2	197.2	298	19.81	3.80

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

Dimensions

Series 155

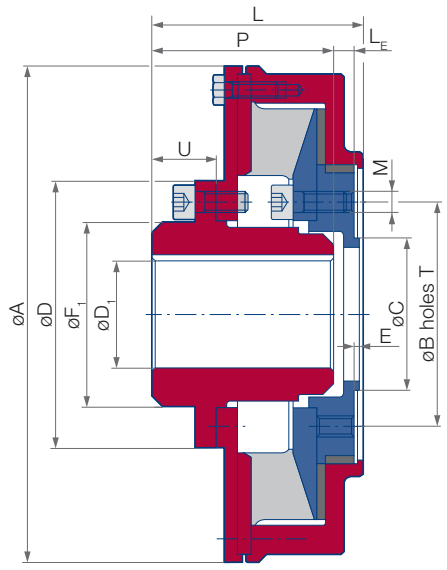


Size	Flange connecting dimensions					Joint shaft connecting dimensions									Mass	Mass moments of inertia	
	Flange diameter	$C_{1,H7}$	$B_{1±0,1}$	M_1	T_1	Flange diameter	$C_{2,g7}$	$B_{2,±0,1}$	M_2	T_2	E	A	U	L	L_E	m [kg]	Primary side J_A [kgm²]	Secondary side J_I [kgm²]
K 005	90	47	74.5	8	4	90	47	74.5	8	4	2	166	12	49.2	30.0	4.0	0.013	0.002
K 010	100	57	84	8	6	100	57	84	8	6	2	186	14	53.7	33.0	5.2	0.019	0.004
K 015	100	57	84	8	6	100	57	84	8	6	2	198	13	56.8	34.8	6.2	0.027	0.006
K 020	120	75	101.5	10	8	120	75	101.5	10	8	2	226	17	63.4	38.0	9.0	0.053	0.009
K 025	120	75	101.5	10	8	120	75	101.5	10	8	2	240	17	65.7	40.4	10.7	0.072	0.013
K 030	150	90	130	12	8	150	90	130	12	8	2	266	21	76.7	46.4	14.6	0.119	0.026
K 035	150	90	130	12	8	150	90	130	12	8	2	284	21	79.0	47.8	17.1	0.162	0.032
K 040	180	110	155.5	14	8	180	110	155.5	14	8	2	316	26	89.7	54.3	23.5	0.266	0.055
K 045	180	110	155.5	14	8	180	110	155.5	14	8	2	340	29	97.2	60.6	30.2	0.383	0.088
K 050	225	140	196	16	8	225	140	196	16	8	4	380	30	107.5	63.6	39.0	0.652	0.142
K 055	250	140	218	18	8	250	140	218	18	8	4	424	35	121.1	71.0	55.5	1.16	0.241
K 060	285	175	245	20	8	285	175	245	20	8	5	476	38	135.2	79.4	75.7	1.97	0.442
K 065	315	175	280	22	8	315	175	280	22	8	5	534	42	150.5	88.0	108.5	3.55	0.800
K 070	350	220	310	22	10	350	220	310	22	10	6	594	44	164.7	95.6	147.0	6.04	1.37
K 075	390	250	345	24	10	390	250	345	24	10	6	656	46	181.5	104.2	195.0	9.80	2.28
K 080	435	280	385	27	10	435	280	385	27	10	8	726	51	200.2	113.8	261.0	16.23	3.70

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

Dimensions

Series 157

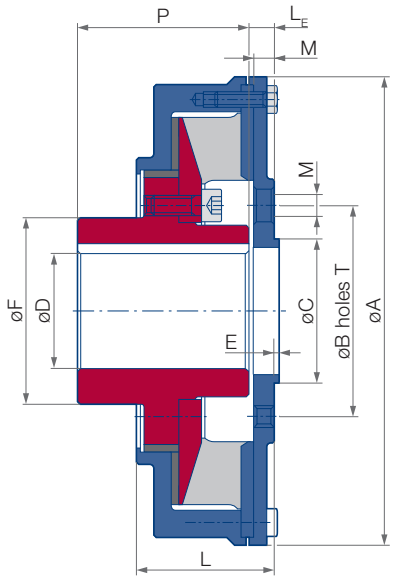


Size	Hub dimensions				Joint shaft connecting dimensions										Mass	Mass moments of inertia	
	$D_{1,H7}$	F_1	D	P	Flange diameter	C_{g7}	$B_{\pm 0,1}$	M	T	E	A	U	L	L_E	m [kg]	Primary side J_A [kgm²]	Secondary side J_I [kgm²]
K 005	38	58	90	56	90	47	74.5	8	4	2	166	14.8	65	6	5.5	0.015	0.002
K 010	46	69	100	68	100	57	84	8	6	2	186	23.3	78	7	7.2	0.024	0.005
K 015	46	69	100	68	100	57	84	8	6	2	198	23.2	81	10	8.5	0.034	0.007
K 020	56	84	120	82	120	75	101.5	10	8	2	226	29.6	94	9	12.5	0.068	0.009
K 025	56	84	120	82	120	75	101.5	10	8	2	240	29.3	96	11	14.7	0.092	0.013
K 030	74	110	150	112	150	90	130	12	8	2	266	46.3	124	9	21.4	0.155	0.026
K 035	74	110	150	112	150	90	130	12	8	2	284	47.0	127	12	24.9	0.211	0.032
K 040	88	132	180	135	180	110	155.5	14	8	2	316	58.3	149	11	35.4	0.347	0.057
K 045	88	132	180	135	180	110	155.5	14	8	2	340	52.8	151	13	43.8	0.498	0.090
K 050	114	170	225	180	225	140	196	16	8	4	380	88.5	197	13	63.6	0.899	0.148
K 055	126	188	250	195	250	140	218	18	8	4	424	90.9	213	14	88	1.55	0.251
K 060	142	212	285	218	285	175	245	20	8	5	476	100.8	237	15	123	2.71	0.460
K 065	165	244	315	255	315	175	280	22	8	5	534	123.5	275	16	178	4.91	0.828
K 070	185	274	350	285	350	220	310	22	10	6	594	141.3	308	18	244	8.43	1.41
K 075	205	305	390	315	390	250	345	24	10	6	656	155.5	339	19	330	13.89	2.34
K 080	228	342	435	352	435	280	385	27	10	8	726	173.8	376	19	446	23.09	3.80

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

Dimensions

Series 158

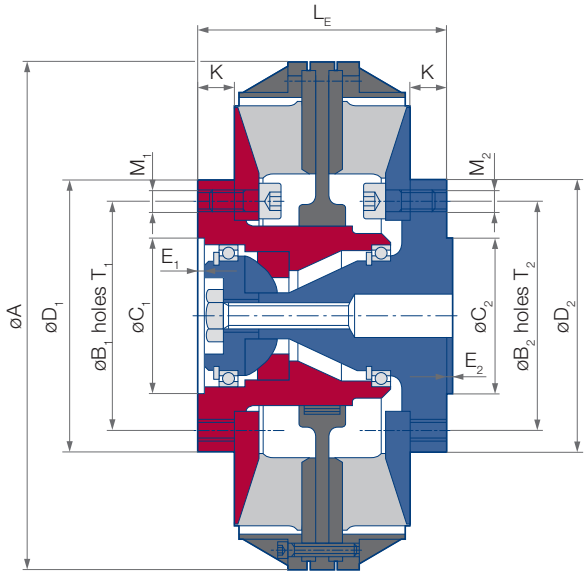


Size	Hub dimensions			Joint shaft connecting dimensions								Mass	Mass moments of inertia	
	D_{H7}	F	P	Flange diameter	C_{g7}	$B_{\pm 0,1}$	M	T	E	A	L	L_E	m [kg]	Primary side J_A [kgm²]	Secondary side J_I [kgm²]
K 005	38	65	56	90	47	74.5	8	4	2	166	50.2	10	5.3	0.014	0.002
K 010	46	74	68	100	57	84	8	6	2	186	54.7	10	7.0	0.023	0.005
K 015	46	74	68	100	57	84	8	6	2	198	57.8	10	8.3	0.033	0.007
K 020	56	89	82	120	75	101.5	10	8	2	226	64.4	12	12.1	0.065	0.011
K 025	56	89	82	120	75	101.5	10	8	2	240	66.7	12	14.3	0.088	0.015
K 030	74	115	112	150	90	130	12	8	2	266	77.7	14	20.9	0.142	0.036
K 035	74	115	112	150	90	130	12	8	2	284	80.0	14	24.3	0.198	0.042
K 040	88	138	135	180	110	155.5	14	8	2	316	90.7	16	34.4	0.312	0.083
K 045	88	138	135	180	110	155.5	14	8	2	340	98.2	16	41.9	0.466	0.110
K 050	114	176	180	225	140	196	16	8	4	380	108.5	19	62.0	0.789	0.242
K 055	126	195	195	250	140	218	18	8	4	424	122.1	21	85.5	1.37	0.405
K 060	142	220	218	285	175	245	20	8	5	476	136.2	23	119	2.37	0.738
K 065	165	252	255	315	175	280	22	8	5	534	151.5	25	173	4.25	1.39
K 070	185	280	285	350	220	310	22	10	6	594	166.7	25	237	7.30	2.38
K 075	205	312	315	390	250	345	24	10	6	656	183.5	27	322	11.98	4.01
K 080	228	348	352	435	280	385	27	10	8	726	202.2	30	436	19.81	6.69

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

Dimensions

Series 159

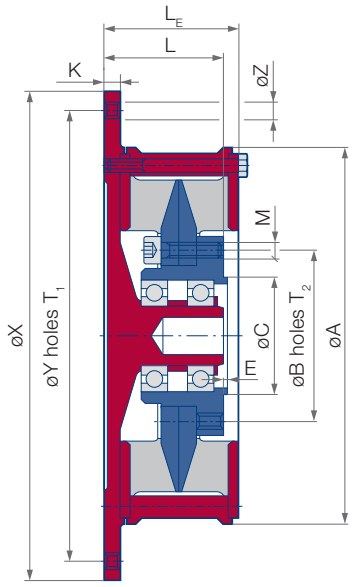


Size	Flange connecting dimensions						Joint shaft connecting dimensions								Mass	Mass moments of inertia		
	D_2	C_{2g7}	$B_{2,\pm0,1}$	M_2	T_2	E_2	D_1	$C_{1,g7}$	$B_{1,\pm0,1}$	M_1	T_1	E_1	A	K	L_E	m [kg]	Primary side J_1 [kgm²]	J_2 [kgm²]	Secondary side J_3 [kgm²]
K 005	90	47	74.5	8	4	2	90	47	74.5	8	4	2.5	166	12	83.4	5.2	0.002	0.007	0.002
K 010	100	57	84	8	6	2	100	57	84	8	6	2.5	186	11	86.4	6.5	0.004	0.013	0.004
K 015	100	57	84	8	6	2	100	57	84	8	6	2.5	198	11	93.6	8	0.006	0.030	0.006
K 020	120	75	101.5	10	8	2	120	75	101.5	10	8	2.5	226	12	100.8	11	0.009	0.034	0.008
K 025	120	75	101.5	10	8	2	120	75	101.5	10	8	2.5	240	14	109.4	13	0.013	0.047	0.012
K 030	150	90	130	12	8	2	150	90	130	12	8	2.5	266	14	120.4	19	0.029	0.075	0.024
K 035	150	90	130	12	8	2	150	90	130	12	8	2.5	284	18	133.0	21.5	0.035	0.109	0.030
K 040	180	110	155.5	14	8	2	180	110	155.5	14	8	2.5	316	17	141.4	31	0.063	0.166	0.054
K 045	180	110	155.5	14	8	2	180	110	155.5	14	8	2.5	340	20	154.4	36.5	0.090	0.243	0.081
K 050	225	140	196	16	8	4	225	140	196	16	8	5	380	20	170.0	52	0.164	0.398	0.147
K 055	250	140	218	18	8	4	250	140	218	18	8	6	424	24	194.2	72	0.264	0.688	0.249
K 060	285	175	245	20	8	5	285	175	245	20	8	7	476	25	213.4	102	0.502	1.20	0.472

Dimensions in mm
Mass and mass moment of inertia are based on the use of steel
Aluminum is available on request
Sizes bigger K 060 are available on request

Dimensions

Series 160

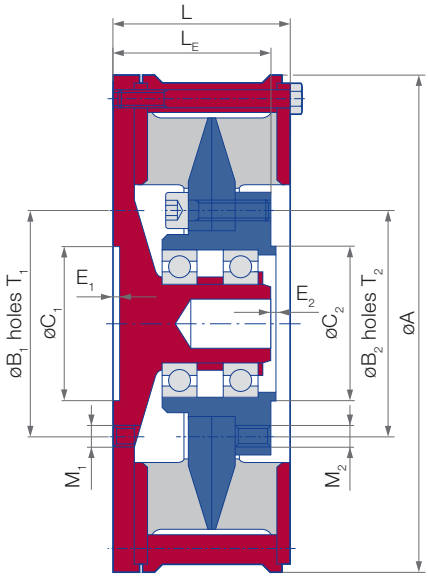


Size	Flywheel	Flywheel connecting dimensions					Joint shaft connecting dimensions								Mass	Mass moments of inertia	
	SAE J620	X_{g7}	$Y_{\pm 0,2}$	Z	T_1	K	Flange diameter	C_{g7}	$B_{\pm 0,1}$	M	T_2	E	A	L	L_E	m [kg]	Primary side J_A [kgm²]	Secondary side J_I [kgm²]
K 005	6.5	215.9	200.0	9	6	8	90	47	74.5	8	4	2	166	61.2	56	7.5	0.028	0.003
	7.5	241.3	222.3	9	8	8										8.0	0.035	
K 010	7.5	241.3	222.3	9	8	8	100	57	84	8	6	2	186	66.0	61	9.5	0.043	0.007
	8	263.5	244.5	11	6	8										10.0	0.052	
K 015	7.5	241.3	222.3	9	8	8	100	57	84	8	6	2	198	72.2	66	11.2	0.056	0.011
	8	263.5	244.5	11	6	10										12.2	0.070	
K 020	8	263.5	244.5	11	6	10	120	75	101.5	10	8	2	226	81.2	75	16.1	0.103	0.015
	10	314.3	295.3	11	8	10										17.9	0.141	
K 025	10	314.3	295.3	11	8	10	120	75	101.5	10	8	2	240	86.8	81	20.5	0.162	0.023
	11.5	352.4	333.4	11	8	10										22.1	0.206	
K 030	10	314.3	295.3	11	8	11	150	90	130	12	8	2	266	101.4	94	28.2	0.225	0.045
	11.5	352.4	333.4	11	8	11										28.6	0.273	
	14	466.7	438.2	14	8	12										35.8	0.575	
K 035	11.5	352.4	333.4	11	8	12	150	90	130	12	8	2	284	102.0	95	33.2	0.340	0.057
	14	466.7	438.2	14	8	12										40.1	0.634	
K 040	11.5	352.4	333.4	11	8	18	180	110	155.5	14	8	2	316	112.2	104	43.7	0.505	0.097
	14	466.7	438.2	14	8	12										49.7	0.774	
K 045	14	466.7	438.2	14	8	12	180	110	155.5	14	8	2	340	122.0	114	55.5	0.904	0.153
K 050	14	466.7	438.2	14	8	14	225	140	196	16	8	4	380	132.2	123	75.3	1.28	0.259
	16	517.5	489.0	14		14										79.6	1.57	
K 055	14	466.7	438.2	14	8	22	250	140	218	18	8	4	424	152.0	142	102.6	2.09	0.444
	16	517.5	489.0	14		14										105	2.25	
K 060	16	517.5	489.0	14	8	12	285	175	245	20	8	5	476	171.8	161	136	3.25	0.819
	18	571.5	542.9	18	6	16										143	3.74	
K 065	21	673.1	641.4	18	6	18	315	175	280	22	8	5	534	192.0	180	208	7.22	1.47
	24	733.4	692.2	20	12	18										217	8.38	
K 070	21	673.1	641.4	18	12	16	350	220	310	22	10	6	594	212.0	198	270	10.55	2.57
	24	733.4	692.2	20	12	18										280	11.83	
K 075	24	733.4	692.2	20	12	18	390	250	345	24	10	6	656	232.0	216	356	16.53	4.30
K 080	-	798.0	762.0	24	12	34	435	280	385	27	10	8	726	262.0	244	492	28.55	7.12

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

Dimensions

Series 161

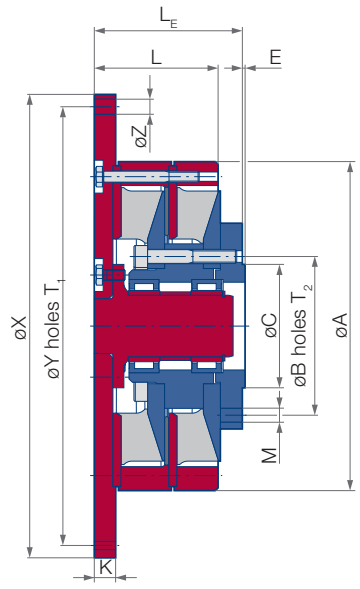


Size	Flange connecting dimensions						Joint shaft connecting dimensions								Mass	Mass moments of inertia	
	Flange diameter	$C_{1,H7}$	$B_{1±0,1}$	M_1	T_1	E_1	Flange diameter	$C_{2,g7}$	$B_{2,±0,1}$	M_2	T_2	E_2	A	L	L_E	m [kg]	Primary side J_A [kgm²]	Secondary side J_I [kgm²]
K 005	90	47	74.5	8	4	2.5	90	47	74.5	8	4	2	166	61.2	56	6.5	0.019	0.003
K 010	100	57	84	8	6	2.5	100	57	84	8	6	2	186	66.0	61	8.3	0.030	0.007
K 015	100	57	84	8	6	2.5	100	57	84	8	6	2	198	72.2	66	10.3	0.045	0.011
K 020	120	75	101.5	10	8	2.5	120	75	101.5	10	8	2	226	81.2	75	15	0.086	0.015
K 025	120	75	101.5	10	8	2.5	120	75	101.5	10	8	2	240	86.8	81	18	0.113	0.023
K 030	150	90	130	12	8	2.5	150	90	130	12	8	2	266	101.4	94	25	0.185	0.045
K 035	150	90	130	12	8	2.5	150	90	130	12	8	2	284	102.0	95	30	0.258	0.057
K 040	180	110	155.5	14	8	2.5	180	110	155.5	14	8	2	316	112.2	104	41	0.430	0.097
K 045	180	110	155.5	14	8	2.5	180	110	155.5	14	8	2	340	122.0	114	48	0.591	0.153
K 050	225	140	196	16	8	5	225	140	196	16	8	4	380	132.2	123	69	1.03	0.259
K 055	250	140	218	18	8	6	250	140	218	18	8	4	424	152.0	142	97.5	1.83	0.444
K 060	285	175	245	20	8	7	285	175	245	20	8	5	476	171.8	161	133	3.06	0.819
K 065	315	175	280	22	8	7	315	175	280	22	8	5	534	192	180	189	5.52	1.47
K 070	350	220	310	22	10	8	350	220	310	22	10	6	594	212	198	260	9.56	2.57
K 075	390	250	345	24	10	8	390	250	345	24	10	6	656	232	216	344	15.09	4.30
K 080	435	280	385	27	10	10	435	280	385	27	10	8	726	262	244	470	25.43	7.12

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

Dimensions

Series 170

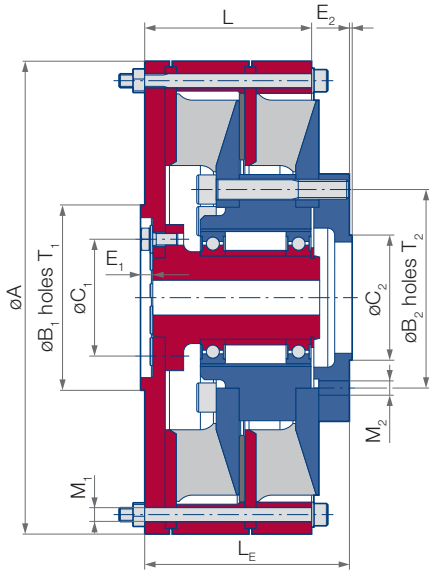


Size	Flywheel	Flywheel connecting dimensions					Joint shaft connecting dimensions								Mass	Mass moments of inertia	
	SAE J620	X_{g7}	$Y_{\pm0,2}$	Z	T_1	K	Flange diameter	C_{g7}	$B_{\pm0,1}$	M	T_2	E	A	L	L_E	m [kg]	Primary side J_A [kgm²]	Secondary side J_I [kgm²]
K 005	6.5	215.9	200.0	9	6	8	90	47	74.5	8	4	2	166	47.2	83	7.9	0.025	0.004
	7.5	241.3	222.3	9	8	8										8.4	0.032	0.004
K 010	7.5	241.3	222.3	9	8	8	90	47	74.5	8	4	2	186	48.7	84	10.3	0.042	0.009
	8	263.5	244.5	11	6	8	100	57	84	8	6	2				10.8	0.050	0.009
K 015	7.5	241.3	222.3	9	8	8	90	47	74.5	8	4	2	198	52.8	90	12.1	0.052	0.013
	8	263.5	244.5	11	6	10	100	57	84	8	6	2				12.5	0.060	0.013
K 020	8	263.5	244.5	11	6	10	100	57	84	8	6	2	226	57.4	101	16.9	0.092	0.018
	10	314.3	295.3	11	8	10	120	75	101.5	10	8	2				18.6	0.128	0.018
K 025	10	314.3	295.3	11	8	10	100	57	84	8	6	2	240	57.7	104	21.0	0.150	0.026
	11.5	352.4	333.4	11	8	10	120	75	101.5	10	8	2				22.4	0.192	0.026
K 030	10	314.3	295.3	11	8	11	120	75	101.5	10	8	2	266	67.7	122	27.7	0.198	0.055
	11.5	352.4	333.4	11	8	11	120	75	101.5	10	8	2				29.4	0.245	0.055
	14	466.7	438.2	14	8	12	150	90	130	12	8	2				36.5	0.538	0.055
K 035	11.5	352.4	333.4	11	8	12	120	75	101.5	10	8	2	284	70.0	123	32.8	0.298	0.067
	14	466.7	438.2	14	8	12	150	90	130	12	8	2				39.8	0.590	0.067
K 040	11.5	352.4	333.4	11	8	18	150	90	130	12	8	2	316	78.7	145	45.9	0.447	0.123
	14	466.7	438.2	14	8	12	180	110	155.5	14	8	2				50.0	0.708	0.123
K 045	14	466.7	438.2	14	8	12	150	90	130	12	8	2	340	82.2	146	58.4	0.835	0.172
							180	110	155.5	14	8	2				58.4	0.835	0.173
K 050	14	466.7	438.2	14	8	14	180	110	155.5	14	8	2	380	92.5	164	74.8	1.12	0.315
	16	517.5	489.0	14	8	14	225	140	196	16	8	4				78.9	1.38	0.313
K 055	14	466.7	438.2	14	8	22	225	140	196	16	8	2	416	102.1	182	95.5	1.69	0.520
	16	517.5	489.0	14	8	14	250	140	218	18	8	4	424			101	1.97	0.520
K 060	16	517.5	489.0	14	8	12	250	140	218	18	8	4	466	112.2	207	130	2.79	0.973
	18	571.5	542.9	18	6	16	285	175	245	20	8	5	476			138	3.41	0.971
K 065	21	673.1	641.4	18	12	18	285	175	245	20	8	5	534	122.5	224	203	6.29	1.77
	24	733.4	692.2	20	12	18	315	175	280	22	8	5				213	7.45	1.77
K 070	21	673.1	641.4	18	12	16	315	175	280	22	8	5	594	142.7	260	265	9.22	3.03
	24	733.4	692.2	20	12	18	350	220	310	22	10	6				272	10.35	3.02
K 075	24	733.4	692.2	20	12	18	350	220	310	22	10	6	656	152.5	274	352	13.90	5.23
							390	250	345	24	10	6				350	13.90	5.21
K 080	-	798.0	762.0	24	12	34	390	250	345	24	10	6	726	172.2	309	474	24.47	8.27
							435	280	385	27	10	8				474	24.47	8.24

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

Dimensions

Series 171

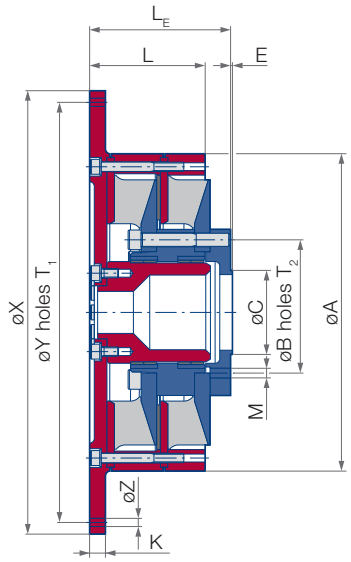


Size	Flange connecting dimensions						Joint shaft connecting dimensions									Mass	Mass moments of inertia	
	Flange diameter	$C_{1,H7}$	$B_{1\pm0,1}$	M_1	T_1	E_1	Flange diameter	$C_{2,g7}$	$B_{2,\pm0,1}$	M_2	T_2	E_2	A	L	L_E	m [kg]	Primary side J_A [kgm²]	Secondary side J_I [kgm²]
K 005	90	47	74.5	8	4	2.5	90	47	74.5	8	4	2	166	47.2	83	7.1	0.017	0.004 0.004
K 010	100	57	84	8	6	2.5	90 100	47 57	74.5 84	8 8	4 6	2 2	186	48.7	84	9.3 9.3	0.03 0.03	0.009 0.009
K 015	100	57	84	8	6	2.5	90 100	47 57	74.5 84	8 8	4 6	2 2	198	52.8	90	11.2 11.2	0.041 0.041	0.013 0.013
K 020	120	75	101.5	10	8	2.5	100 120	57 75	84 101.5	8 10	6 8	2 2	226	57.4	101	16.2 16.1	0.078 0.078	0.018 0.018
K 025	120	75	101.5	10	8	2.5	100 120	57 75	84 101.5	8 10	6 8	2 2	240	57.7	104	18.4 18.3	0.102 0.102	0.026 0.026
K 030	150	90	130	12	8	2.5	120 150	75 90	101.5 130	10 12	8 8	2 2	266	67.7	122	26.7 26.8	0.164 0.164	0.055 0.055
K 035	150	90	130	12	8	2.5	120 150	75 90	101.5 130	10 12	8 8	2 2	284	70.0	123	30.5 30.6	0.232 0.232	0.067 0.067
K 040	180	110	155.5	14	8	2.5	150 180	90 110	130 155.5	12 14	8 8	2 2	316	78.7	145	45.7 45.8	0.394 0.394	0.123 0.123
K 045	180	110	155.5	14	8	2.5	150 180	90 110	130 155.5	12 14	8 8	2 2	340	82.2	146	52.1 52.2	0.548 0.548	0.172 0.173
K 050	225	140	196	16	8	5	180 225	110 140	155.5 196	14 16	8 8	2 4	380	92.5	164	70.3 70.0	0.909 0.909	0.315 0.313
K 055	250	140	218	18	8	6	225 250	140 140	196 218	16 18	8 8	2 4	424	102.1	182	90.9 90.9	1.42 1.42	0.520 0.520
K 060	285	175	245	20	8	7	250 285	140 175	218 245	18 20	8 8	4 5	476	112.2	207	123.5 123.0	2.35 2.35	0.973 0.971
K 065	315	175	280	22	8	7	285 315	175 175	245 280	20 22	8 8	5 5	534	122.5	224	182.0 182.0	4.51 4.51	1.77 1.77
K 070	350	220	310	22	10	8	315 350	175 220	280 310	22 22	8 10	5 6	594	142.7	260	258.0 256.0	8.31 8.31	3.03 3.02
K 075	390	250	345	24	10	8	350 390	220 250	310 345	22 24	10 10	6 6	656	152.5	274	331.0 329.0	12.20 12.20	5.23 5.21
K 080	435	280	385	27	10	10	390 435	250 280	345 385	24 27	10 10	6 8	726	172.2	309	456.0 454.0	21.60 21.60	8.27 8.24

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

Dimensions

Series 172

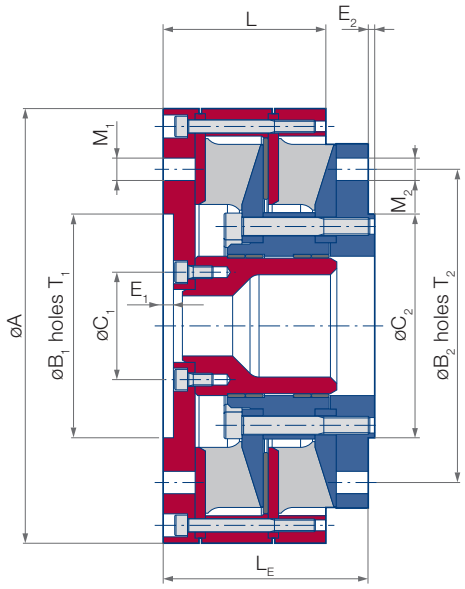


Size	Flywheel connecting dimensions					Joint shaft connecting dimensions								Mass	Mass moments of inertia	
	Flange diameter SAE J620	X_{g7}	$Y_{\pm 0,2}$	Z	T_1	K	Flange diameter	C_{g7}	$B_{\pm 0,1}$	M	T_2	E	A	L	L_E	m [kg]	Primary side J_A [kgm²]	Secondary side J_I [kgm²]
K 005	6.5	215.9	200	9	6	8	90	47	74.5	8	4	2	166	45.2	81	7.9	0.025	0.004
	7.5	241.3	222.3	9	8	8										8.4	0.032	0.004
K 010	7.5	241.3	222.3	9	8	8	90	47	74.5	8	4	2	186	47.7	84	10.3	0.042	0.009
	8	263.5	244.5	11	6	8	100	57	84	8	6	2				10.8	0.050	0.009
K 015	7.5	241.3	222.3	9	8	8	90	47	74.5	8	4	2	198	51.8	90	12.1	0.052	0.013
	8	263.5	244.5	11	6	10	100	57	84	8	6	2				12.5	0.060	0.013
K 020	8	263.5	244.5	11	6	10	100	57	84	8	6	2	226	56.4	101	16.9	0.092	0.018
	10	314.3	295.3	11	8	10	120	75	101.5	10	8	2				18.6	0.128	0.018
K 025	10	314.3	295.3	11	8	10	100	57	84	8	6	2	240	58.7	105	21	0.150	0.026
	11.5	352.4	333.4	11	8	10	120	75	101.5	10	8	2				22.4	0.192	0.026
K 030	10	314.3	295.3	11	8	11	120	75	101.5	10	8	2	266	66.7	120	27.7	0.198	0.054
	11.5	352.4	333.4	11	8	11	120	75	101.5	10	8	2				29.4	0.245	0.054
	14	466.7	438.2	14	8	12	150	90	130	12	8	2				36.5	0.538	0.054
K 035	11.5	352.4	333.4	11	8	12	120	75	101.5	10	8	2	284	69	124	32.8	0.298	0.067
	14	466.7	438.2	14	8	12	150	90	130	12	8	2				39.8	0.590	0.067
K 040	11.5	352.4	333.4	11	8	18	150	90	130	12	8	2	316	76.7	138	45.9	0.447	0.118
	14	466.7	438.2	14	8	12	180	110	155.5	14	8	2				50	0.708	0.118
K 045	14	466.7	438.2	14	8	12	150	90	130	12	8	2	340	81.2	146	58.4	0.835	0.171
							180	110	155.5	14	8	2				58.4	0.835	0.171
K 050	14	466.7	438.2	14	8	14	180	110	155.5	14	8	2	380	91.5	165	74.8	1.12	0.314
	16	517.5	489	14	8	14	225	140	196	16	8	2				78.9	1.38	0.313
K 055	14	466.7	438.2	14	8	22	225	140	196	16	8	4	416	102.1	181	95.5	1.69	0.510
	16	517.5	489	14	8	14	250	140	218	18	8	4	424			101	1.97	0.510
K 060	16	517.5	489	14	8	12	250	140	218	18	8	4	466	113.2	208	130	2.79	0.961
	18	571.5	542.9	18	6	16	285	175	245	20	8	5	476			138	3.41	0.947
K 065	21	673.1	641.4	18	12	18	285	175	245	20	8	5	534	125.5	229	203	6.29	1.76
	24	733.4	692.2	20	12	18	315	175	280	22	8	5				213	7.45	1.76
K 070	21	673.1	641.4	18	12	16	315	175	280	22	8	5	594	141.7	258	265	9.22	2.98
	24	733.4	692.2	20	12	18	350	220	310	22	10	6				272	10.35	2.96
K 075	24	733.4	692.2	20	12	18	350	220	310	22	10	6	656	155.5	287	352	13.90	5.31
							390	250	345	24	10	6				350	13.90	5.28
K 080	–	798	762	24	12	34	390	250	345	24	10	6	726	172.2	311	474	24.47	8.21
							435	280	385	27	10	6				474	24.47	8.23

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

Dimensions

Series 173

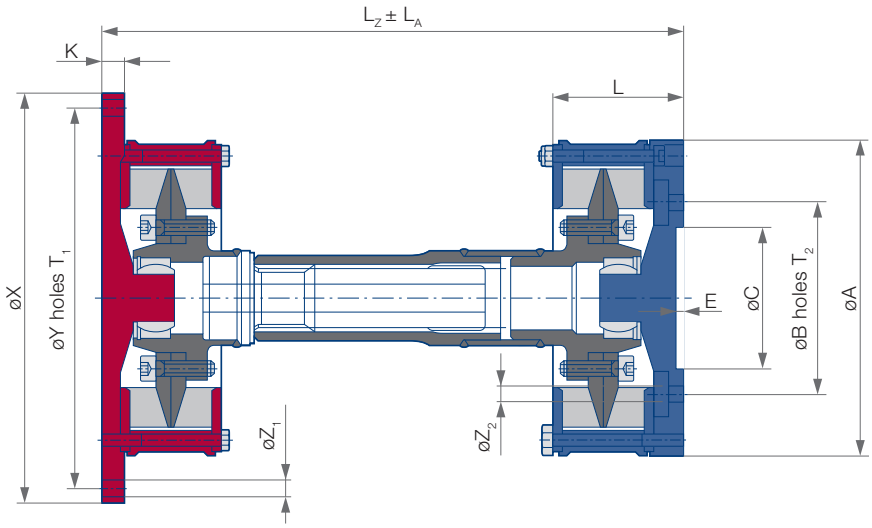


Size	Flywheel connecting dimensions						Joint shaft connecting dimensions									Mass	Mass moments of inertia	
	Flange diameter	$C_{1, H7}$	$B_{1, \pm 0,1}$	M_1	T_1	E_1	Flange diameter	$C_{2, g7}$	$B_{2, \pm 0,1}$	M_2	T_2	E_2	A	L	L_E	m [kg]	Primary side J_A [kgm²]	Secondary side J_I [kgm²]
005	90	47	74.5	8	4	2.5	90	47	74.5	8	4	2	166	47	48	6.9	0.016	0.002
																	0.016	0.002
010	100	57	84	8	6	2.5	90	47	74.5	8	4	2	186	49.7	52	9.1	0.029	0.004
							100	57	84	8	6	2				9.1	0.029	0.004
015	100	57	84	8	6	2.5	90	47	74.5	8	4	2	198	52.8	54	11.1	0.041	0.006
							100	57	84	8	6	2				11.0	0.041	0.006
020	120	75	101.5	10	8	2.5	100	57	84	8	6	2	226	58.4	63	15.8	0.075	0.008
							120	75	101.5	10	8	2				15.7	0.075	0.008
025	120	75	101.5	10	8	2.5	100	57	84	8	6	2	240	60.7	64	18.5	0.100	0.012
							120	75	101.5	10	8	2				18.4	0.100	0.012
030	150	90	130	12	8	2.5	120	75	101.5	10	8	2	266	67.7	71	25.7	0.154	0.025
							150	90	130	12	8	2				25.7	0.154	0.024
035	150	90	130	12	8	2.5	120	75	101.5	10	8	2	284	70.8	76	29.6	0.216	0.032
							150	90	130	12	8	2				29.6	0.216	0.031
040	180	110	155.5	14	8	2.5	150	90	130	12	8	2	316	77.7	85	43.8	0.390	0.055
							180	110	155.5	14	8	2				43.8	0.390	0.055
045	180	110	155.5	14	8	2.5	150	90	130	12	8	2	340	82.2	89	50.9	0.520	0.083
							180	110	155.5	14	8	2				50.9	0.520	0.082
050	225	140	196	16	8	5	180	110	155.5	14	8	2	380	93.5	98	68.5	0.840	0.143
							225	140	196	16	8	2				68.3	0.840	0.142
055	250	140	218	18	8	6	225	140	196	16	8	2	424	104.1	110	90.6	1.44	0.242
							250	140	218	18	8	4				90.5	1.44	0.240
060	285	175	245	20	8	7	250	140	218	18	8	4	476	117.2	123	125	2.43	0.454
							285	175	245	20	8	5				123	2.43	0.453
065	315	175	280	22	8	7	285	175	245	20	8	5	534	130.5	137	187	4.77	0.768
							315	175	280	22	8	5				187	4.77	0.768
070	350	220	310	22	10	8	315	175	280	22	8	5	594	142.7	154	253	8.10	0.993
							350	220	310	22	10	6				252	8.10	0.968
075	390	250	345	24	10	8	350	220	310	22	10	6	656	159.5	166	339	12.30	2.41
							390	250	345	24	10	6				337	12.30	2.38
080	435	280	385	27	10	10	390	250	345	24	10	6	726	176.2	182	458	22.12	3.80
							435	280	385	27	10	8				458	22.12	3.74

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

Dimensions

Series 190



Size	Flywheel	Flywheel connecting dimensions					Flange connecting dimensions									Mass		Mass moments of inertia		
	SAE J620	X_{g7}	$Y_{\pm 0,1}$	Z_1	T_1	K	C_{H7}	$B_{\pm 0,1}$	Z_2	T_2	E	A	L	L_Z	L_A	m_1 [kg]	m_2 [kg]	Primary side J_1 [kgm²]	Primary side J_2 [kgm²]	Secondary side J_3 [kgm²]
K 005	6.5	215.9	200.0	9	6	8	75	101.5	9	8	2.5	166	70	355	30	9.8	7.7	0.035	0.012	0.013
	7.5	241.3	222.3	9	8	8										10.4		0.042		
K 010	7.5	241.3	222.3	9	8	8	75	101.5	9	8	2.5	186	74	420	90	13.3	11.2	0.053	0.016	0.018
	8	263.5	244.5	11	6	10										14.2		0.068		
K 015	7.5	241.3	222.3	9	8	8	90	130	11	8	2.5	198	84	430	90	15.3	13.7	0.071	0.024	0.045
	8	263.5	244.5	11	6	10										16.1		0.083		
K 020	8	263.5	244.5	11	6	10	90	130	11	8	2.5	226	89	435	90	20.8	17.8	0.127	0.032	0.086
	10	341.3	295.3	11	8	10										22.6		0.165		
K 025	10	341.3	295.3	11	8	10	110	155.5	13	8	2.5	240	98	430	100	26.2	22.6	0.194	0.049	0.123
	11.5	352.4	333.4	11	8	10										27.8		0.238		
K 030	10	314.3	295.3	11	8	12	110	155.5	13	8	2.5	266	107	485	110	34.6	31.3	0.266	0.097	0.207
	11.5	352.4	333.4	11	8	12										36.4		0.318		
	14	466.7	438.2	14	8	12										43.3		0.612		
K 035	11.5	352.4	333.4	11	8	12	140	196	17	8	4	284	116	505	110	41.4	37.7	0.390	0.124	0.273
	14	466.7	438.2	14	8	12										48.3		0.684		
K 040	11.5	352.4	333.4	11	8	14	140	196	17	8	4	316	125	540	110	52.1	50.4	0.553	0.202	0.455
	14	466.7	438.2	14	8	12										58.7		0.839		
K 045	14	466.7	438.2	14	8	12	140	196	17	8	4	340	134	550	100	67.9	60.4	0.997	0.311	0.624
K 050	14	466.7	438.2	14	8	14	140	196	17	8	4	380	148	640	110	92.8	83.6	1.48	0.530	1.04
	16	517.5	489.0	14	8	14										97.1		1.74		
K 055	14	466.7	438.2	14	8	21	175	245	21	8	6	424	171	660	120	124	115	2.39	0.890	1.89
	16	517.5	489.0	14	8	14										127		2.57		
K 060	16	517.5	489.0	14	8	23	175	245	21	8	6	476	187	770	90	171	161	3.92	1.68	3.16
	18	571.5	542.9	18	6	18										176		4.32		
K 065	21	673.1	641.4	18	12	16	220	310	21	10	6	534	205	985	140	262	236	7.85	3.21	5.55
	24	733.4	692.2	20	12	18										273		9.20		
K 070	21	673.1	641.4	18	12	18	220	310	21	10	6	594	225	1 025	140	341	311	12.34	5.33	9.58
	24	733.4	692.2	20	12	18										350		13.50		

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

Maximum admissible speeds

Series	BR 151, 153, 159*, 160, 161, 170*, 171*, 190			BR 150, 152, 154, 155, 157, 158, 172, 173	
Size	**Aluminum**	**C 45**	**GGG 40**	**C 45**	**GGG 40**
K 005	**13300**	**11800**	**10100**	3000	3000
K 010	**11500**	**10400**	**8900**	3000	3000
K 015	**10500**	**9600**	**8200**	3000	3000
K 020	**9700**	**8700**	**7400**	3000	3000
K 025	**9000**	**8100**	**6900**	3000	3000
K 030	**8000**	**7200**	**6200**	3000	3000
K 035	**7400**	**6700**	**5700**	3000	3000
K 040	**6800**	**6100**	**5200**	3000	3000
K 045	**6100**	**5600**	**4800**	3000	3000
K 050	**5600**	**5000**	**4300**	3000	3000
K 055	**5000**	**4500**	**3800**	3000	3000
K 060	**4300**	**3900**	**3400**	3000	3000
K 065	**3900**	**3500**	**3000**	3000	3000
K 070	**3400**	**3100**	**2700**	3000	2700
K 075	**3100**	**2800**	**2400**	2800	2400
K 080	**2800**	**2500**	**2200**	2500	2200
K 085	**2500**	**2300**	**1900**	2300	1900
K 090	**2200**	**2000**	**1700**	2000	1700

*applies to designs in which the element is surrounded by a casing; other (lower) maximum speeds are applicable for other designs
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]	[°]
				BR 190
K 005	1.5	1.0	0.9	0.5
K 010	1.5	1.2	1.0	0.5
K 015	1.7	1.3	1.2	0.5
K 020	3.0	1.4	1.4	0.5
K 025	3.5	1.5	1.5	0.5
K 030	4.0	1.6	1.7	0.5
K 035	4.0	1.7	1.8	0.5
K 040	4.0	1.8	2.0	0.5
K 045	4.0	2.0	2.1	0.5
K 050	5.0	2.2	2.3	0.5
K 055	5.0	2.4	2.8	0.5
K 060	5.0	2.7	3.1	0.5
K 065	5.0	3.0	3.5	0.5
K 070	5.0	3.5	3.9	0.5
K 075	6.0	3.6	4.3	0.5
K 080	6.0	4.0	4.8	0.5
K 085	6.0	4.4	5.3	0.5
K 090	7.0	4.8	6.0	0.5

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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