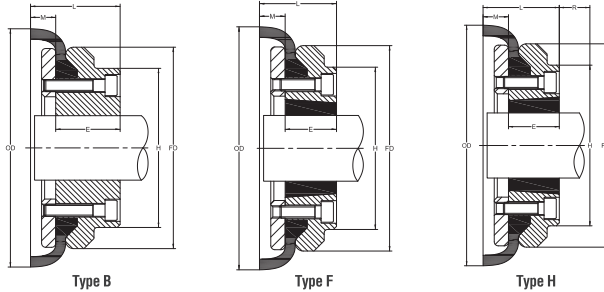
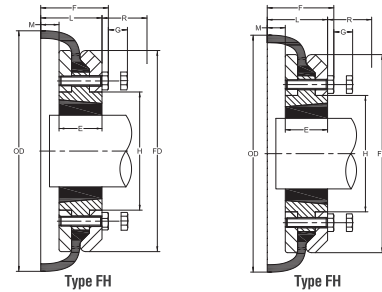


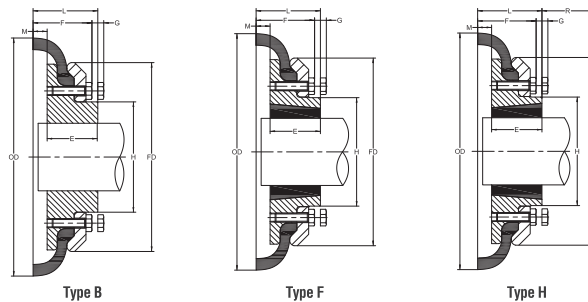
Sizes 40-60



Sizes 70-120 (Reversible)



Sizes 70-250



DIMENSIONS OF *Martin-FLEX*® FLANGES TYPES B, F, H & FH

Part Number	Size	Type	Bush No.	Max. Bore (B) Metric	Types F&H			Type B		Screw over Key	O.D	FD	H	F	G*	M*	Mass* (kg)	Inertia* (kgm ²)
					L	E	R*	L	E									
F40B	F40	B	-	30	-	-	29	33	M5	104	82	-	-	-	11	0,8	0,00074	
F40F	F40	F	1008	25	33	22	29	-	-	-	104	82	-	-	11	0,8	0,00074	
F40H	F40	H	1008	25	33	22	29	-	-	-	104	82	-	-	11	0,8	0,00074	
F50B	F50	B	-	38	-	-	38	45	M5	133	100	79	-	-	12,5	1,2	0,00115	
F50F	F50	F	1210	32	37,5	25	38	-	-	-	133	100	79	-	12,5	1,2	0,00115	
F50H	F50	H	1210	32	37,5	25	38	-	-	-	133	100	79	-	12,5	1,2	0,00115	
F60B	F60	B	-	45	-	-	38	55	M6	165	125	70	-	-	16,5	2,0	0,0052	
F60F	F60	F	1610	42	41,5	25	38	-	-	-	165	125	103	-	16,5	2,0	0,0052	
F60H	F60	H	1610	42	41,5	25	38	-	-	-	165	125	103	-	16,5	2,0	0,0052	
F70B	F70	B	-	50	-	-	-	47	M10	187	142	80	50	13	11,5	3,1	0,009	
F70F	F70	F	2012	50	43,5	32	42	-	-	-	187	142	80	50	13	11,5	3,1	0,009
F70H	F70	H	1610	42	36,5	25	38	-	-	-	187	142	80	50	13	11,5	3,0	0,009
F70FH	F70	FH	1610	42	37	25	42	-	-	M8	187	142	80	44,25	13	11,5	3,0	0,009
F80B	F80	B	-	63	-	-	-	55	M10	211	165	98	54	16	12,5	4,9	0,018	
F80F	F80	F	2517	60	57,5	45	48	-	-	-	211	165	97	54	16	12,5	4,9	0,018
F80H	F80	H	2012	50	44,5	32	32	-	-	-	211	165	98	54	16	12,5	4,6	0,017
F80FH	F80	FH	2012	50	45,5	32	48	-	-	M8	211	165	98	52,75	16	12,5	4,6	0,017
F90B	F90	B	-	75	-	-	-	62,5	M12	235	187	112	60	16	13,5	7,1	0,032	
F90F	F90	F	2517	60	58,5	45	48	-	-	-	235	187	108	60	16	13,5	7,0	0,031
F90H	F90	H	2517	60	58,5	45	48	-	-	-	235	187	108	60	16	13,5	7,0	0,031
F90FH	F90	FH	2517	60	58,5	45	48	-	-	M10	235	187	112	67,86	16	13,5	7,0	0,031
F100B	F100	B	-	80	-	-	-	69,5	M12	254	214	125	62	16	13,5	9,9	0,055	
F100F	F100	F	3020	75	64,5	51	55	-	-	-	254	214	120	62	16	13,5	9,9	0,055
F100H	F100	H	2517	60	58,5	45	48	-	-	-	254	214	113	62	16	13,5	9,4	0,054
F100FH	F100	FH	2517	60	59,5	45	55	-	-	M10	254	214	125	68,86	16	13,5	9,4	0,054

Dimensions in millimeters unless otherwise specified.

* G is the amount by which clamping screws need to be withdrawn to release tyre.

J is the wrench clearance to allow for tightening/loosening the bush on the shaft and the clamping screws on sizes F40, F50 and F60. The use of a shortened wrench will allow this dimension to be reduced.

* M is half the distance between flanges. Shaft ends, although normally located twice M apart, can protect beyond the flanges as shown. In this event allow sufficient space between for end float and misalignment.

Mass and inertia figures are for single flange with mid range bore and included clamping ring, screws and washers and half tyre.

For pilot bore 'B' flange code is listed.

Flanges are also available finish bored with keyway if required.

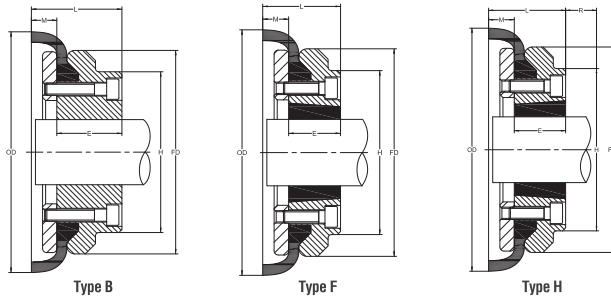
Bore must be specified on order.

#Note: On sizes F70, 80, 100 and 120 the 'F' direction bush is larger than that in the 'H' direction.

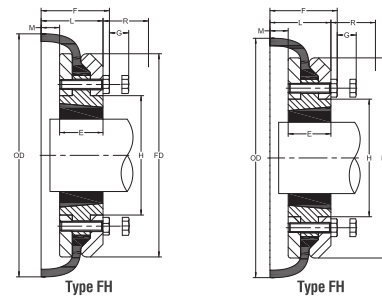
Martin-Flex Couplings - Dimensions



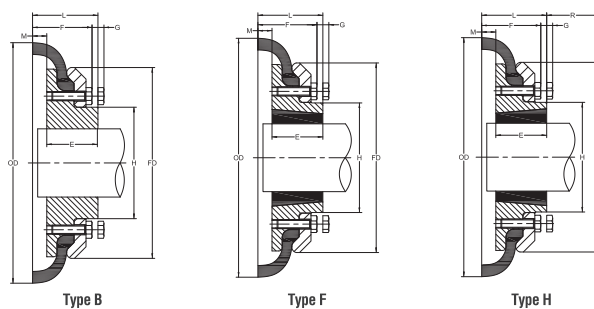
Sizes 40-60



Sizes 70-120 (Reversible)



Sizes 70-250



DIMENSIONS OF *Martin* - FLEX® FLANGES TYPES B, F, H & FH

Size	Type	Bush No.	Max. Bore (B) Metric	Types F&H			Type B		Screw over Key	O.D	FD	H	F	G*	M*	Mass* (kg)	Inertia* (kgm ²)
				L	E	R*	L	E									
F110	B	-	90	-	-	-	75,5	63	M12	279	232	128	62	16	12,5	12,5	0,081
F110	F	3020	75	63,5	51	55	-	-	-	279	232	134	62	16	12,5	11,7	0,078
F110	H	3020	75	63,5	51	55	-	-	-	279	232	134	62	16	12,5	11,7	0,078
F110	FH	3020	75	64,5	51	55	-	-	M10	279	232	134	73,68	16	12,5	11,7	0,078
F120	B	-	100	-	-	-	84,5	70	M16	314	262	143	67	16	14,5	16,9	0,137
F120	F	3525	100	79,5	65	67	-	-	-	314	262	140	67	16	14,5	16,5	0,137
F120	H	3020	75	65,5	51	55	-	-	-	314	262	140	67	16	14,5	15,9	0,13
F120	FH	3020	75	66,5	51	67	-	-	M12	314	262	140	77,18	16	14,5	15,9	0,13
F140	B	-	125	-	-	-	110,5	94	M20	359	312,5	180	73	17	16	22,2	0,254
F140	F	3525	100	81	65	67	-	-	-	359	312,5	180	73	17	16	22,3	0,255
F140	H	3525	100	81	65	67	-	-	-	359	312,5	180	73	17	16	22,3	0,255
F160	B	-	140	-	-	-	117	102	M20	402	348	197	78	19	15	35,8	0,469
F160	F	4030	115	91	76	80	-	-	-	402	348	197	78	19	15	32,5	0,380
F160	H	4030	115	91	76	80	-	-	-	402	348	197	78	19	15	32,5	0,380
F180	B	-	150	-	-	-	137	114	M20	470	396	205	94	19	23	49,1	0,871
F180	F	4535	125	112	89	89	-	-	-	470	396	205	94	19	23	42,2	0,847
F180	H	4535	125	112	89	89	-	-	-	470	396	205	94	19	23	42,2	0,847
F200	B	-	150	-	-	-	138	114	M20	508	432	205	103	19	24	58,2	1,301
F200	F	4535	125	113	89	89	-	-	-	508	432	205	103	19	24	53,6	1,281
F200	H	4535	125	113	89	89	-	-	-	508	432	205	103	19	24	53,6	1,281
F220	B	-	160	-	-	-	154,5	127	M20	562	472	224	118	20	27,5	79,6	2,142
F220	F	5040	125	129,5	102	92	-	-	-	562	472	224	118	20	27,5	72,0	2,104
F220	H	5040	125	129,5	102	92	-	-	-	562	472	224	118	20	27,5	72,0	2,104
F250	B	-	190	-	-	-	161,5	132	M20	628	532	254	125	25	29,5	104,0	3,505

Dimensions in millimeters unless otherwise specified.

* G is the amount by which clamping screws need to be withdrawn to release tyre.

J is the wrench clearance to allow for tightening/loosening the bush on the shaft and the clamping screws on sizes F40, F50 and F60. The use of a shortened wrench will allow this dimension to be reduced.

* M is half the distance between flanges, Shaft ends, although normally located twice M apart, can protect beyond the flanges as shown. In this event allow sufficient space between for end float and misalignment.

Mass and inertia figures are for single flange with mid range bore and included clamping ring, screws and washers and half tyre.

For pilot bore 'B' flange code is listed.

Flanges are also available finish bored with keyway if required.

Bore must be specified on order.

#Note: On sizes F70, 80, 100 and 120 the 'F' direction bush is larger than that in the 'H' direction.



**Martin-Flex®
Couplings**

POWER RATINGS (kW)

Speed rev/min	Coupling Size														
	F40	F50	F60	F70	F80	F90	F100	F110	F120	F140	F160	F180	F200	F220	F250
100	0,25	0,69	1,33	2,62	3,93	5,24	7,07	9,16	13,9	24,3	39,5	65,7	97,6	121	154
200	0,50	1,38	2,66	5,24	7,85	10,5	14,1	18,3	27,9	48,7	79,0	131	195	243	307
300	0,75	2,07	3,99	7,85	11,8	15,7	21,2	27,5	41,8	73,0	118	197	293	364	461
400	1,01	2,76	5,32	10,5	15,7	20,9	28,3	36,6	55,7	97,4	158	263	391	486	615
500	1,26	3,46	6,65	13,1	19,6	26,2	35,3	45,8	69,6	122	197	328	488	607	768
600	1,51	4,15	7,98	15,7	23,6	31,4	42,4	55,0	83,6	146	237	394	586	729	922
700	1,76	4,84	9,31	18,3	27,5	36,6	49,5	64,1	97,5	170	276	460	684	850	1076
720	1,81	4,98	9,57	18,8	28,3	37,7	50,9	66,0	100	175	284	473	703	875	1106
800	2,01	5,53	10,6	20,9	31,4	41,9	56,5	73,3	111	195	316	525	781	972	1229
900	2,26	6,22	12,0	23,6	35,3	47,1	63,6	82,5	125	219	355	591	879	1093	1383
960	2,41	6,63	12,8	25,1	37,7	50,3	67,9	88,0	134	234	379	630	937	1166	1475
1000	2,51	6,91	13,3	26,2	39,3	52,4	70,7	91,6	139	243	395	657	976	1215	1537
1200	3,02	8,29	16,0	31,4	47,1	62,8	84,9	110	167	292	474	788	1172		
1400	3,52	9,68	18,6	36,6	55,0	73,3	99,0	128	195	341	553	919			
1440	3,62	9,95	19,1	37,7	56,5	75,4	102	132	201	351	568	945			
1600	4,02	11,1	21,3	41,9	62,8	83,8	113	147	223	390	632				
1800	4,52	12,4	23,9	47,1	70,7	94,2	127	165	251	438					
2000	5,03	13,8	26,6	52,4	78,5	105,5	141	183	279						
2200	5,53	15,2	29,3	57,6	86,4	115	155	202							
2400	6,03	16,6	31,9	62,8	94,2	126	170								
2600	6,53	18,0	34,6	68,1	102	136	184								
2800	7,04	19,4	37,2	73,3	110	147									
2880	7,24	19,9	38,3	75,4	113	151									
3000	7,54	20,7	39,9	78,5	118	157									
3600	9,05	24,9	47,9	94,2											

The figures in heavier type are for standard motor speeds. All these power ratings are calculated at constant torque. For speeds below 100 rev/min and intermediate speeds use nominal torque ratings.

PHYSICAL CHARACTERISTICS - FLEXIBLE TYRES

Characteristics	Coupling Size														
	F40	F50	F60	F70	F80	F90	F100	F110	F120	F140	F160	F180	F200	F220	F250
Maximum speed rev/min	4500	4500	4000	3600	3100	3000	2600	2300	2050	1800	1600	1500	1300	1100	1000
Nominal Torque Nm TKN	24	66	127	250	375	500	675	875	1330	2325	3770	6270	9325	11600	14675
Maximum Torque Nm TK AX	64	160	318	487	759	1096	1517	2137	3547	5642	9339	16455	23508	33125	42740
Torsional Stiffness Nm/°	5	13	26	41	63	91	126	178	296	470	778	1371	1959	2760	3562
Max, parallel misalignment	1,1	1,3	1,6	1,9	2,1	2,4	2,6	2,9	3,2	3,7	4,2	4,8	5,3	5,8	6,6
Maximum end float mm	1,3	1,7	2,0	2,3	2,6	3,0	3,3	3,7	4,0	4,6	5,3	6,0	6,6	7,3	8,2
Approximate mass, kg	0,1	0,3	0,5	0,7	1,0	1,1	1,1	1,4	2,3	2,6	3,4	7,7	8,0	10	15
Alternating Torque Nm @ 10Hz TKW	11	26	53	81	127	183	252	356	591	940	1556	2742	3918	5521	7124
Resonance Factor V	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
Damping Coefficient	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9

Maximum torque figures should be regarded as short duration overload ratings for use in such circumstances as direct-on-line starting. **All flexible tyres have an angular misalignment capacity up to 4°**

FLEXIBLE TYRE CODE NUMBERS

Unless otherwise specified *Martin* Flexible tyres will be supplied in a natural rubber compound which is suitable for operation in temperatures -50°C to +50°C.

A chloroprene compound is available which is Fire Resistant and Anti-Static (F.R.A.S.) and has greater resistance to heat and oil.

This is suitable for operation in temperatures -15°C to +70°C. For temperatures outside these ranges - consult

Tyre Part Numbers		
Size	Natural	F.R.A.S.
F40	F40NA	F40FR
F50	F50NA	F50FR
F60	F60NA	F60FR
F70	F70NA	F70FR
F80	F80NA	F80FR
F90	F90NA	F90FR
F100	F100NA	F100FR
F110	F110NA	F110FR
F120	F120NA	F120FR
F140	F140NA	F140FR
F160	F160NA	F160FR
F180	F180NA	F180FR
F200	F200NA	F200FR
F220	F220NA	F220FR
F250	F250NA	F250FR

BACK STOP/SAFETY DOGS

POSITIVE DRIVE APPLICATIONS

In the unlikely event of the failure of the flexible tyre, the drive can be maintained with the interaction of fitted back stop/safety dogs. Safety dogs are available for coupling sizes F70 to F250 and should be fitted when it is essential to avoid run back, e.g. cranes, hoists, lifts, elevators, inclined conveyors, etc.