

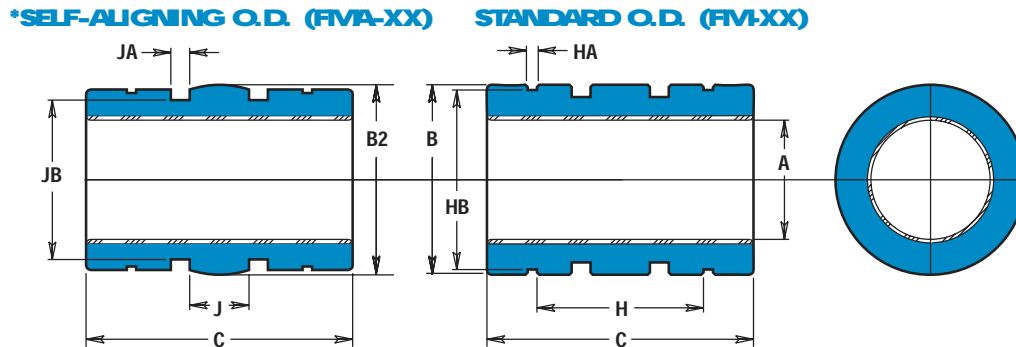


Simplicity® Self-lubricating Bearings

Linear Bearings - ISO Metric

Linear Motion Systems

FM LINEAR BEARINGS



*Except for the O.D., bearings with the self-aligning feature have the same dimensions and tolerances as the standard bearing. There is a spherical crown on the O.D. to create the self-aligning feature. They are used in a straight bore housing. Add an "A" to the part number per the example. More information on self-aligning bearings is on pages 41-42.

BASIC DIMENSIONAL INFORMATION

PRECISION I.D. SERIES Similar to preloaded ball bearing					COMPENSATED I.D. SERIES Similar to standard ball bearing					FMA		C		CONCENTRIC MAX. (mm)	BEARING WEIGHT (kg.)	
PART NO.		NOMINAL SIZE (mm)	A BEARING I.D. (F8)		PART NO.		A BEARING I.D.		B O.D. (h7)		B2 O.D.		LENGTH			
CLOSED	OPEN		MIN.	MAX.	CLOSED	OPEN	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.		
FM 05	FMN 05	5	5.010	5.028	FMC 05	FMCN 05	5.060	5.078	11.982	12	11.941	11.966	21.746	22	0.0254	0.004
FM 08	FMN 08	8	8.013	8.035	FMC 08	FMCN 08	8.063	8.085	15.982	16	15.941	15.966	24.746	25	0.0254	0.009
FM 10	FMN 10	10	10.013	10.035	FMC 10	FMCN 10	10.063	10.085	18.979	19	18.938	18.964	28.746	29	0.0254	0.014
FM 12	FMN 12	12	12.016	12.043	FMC 12	FMCN 12	12.066	12.093	21.979	22	21.938	21.963	31.746	32	0.0254	0.017
FM 16	FMN 16	16	16.016	16.043	FMC 16	FMCN 16	16.066	16.093	25.979	26	25.938	25.964	35.746	36	0.0254	0.028
FM 20	FMN 20	20	20.020	20.053	FMC 20	FMCN 20	20.096	20.129	31.975	32	31.938	31.963	44.746	45	0.0254	0.054
FM 25	FMN 25	25	25.020	25.053	FMC 25	FMCN 25	25.096	25.129	39.975	40	39.936	39.962	57.746	58	0.0254	0.109
FM 30	FMN 30	30	30.020	30.053	FMC 30	FMCN 30	30.096	30.129	46.975	47	46.937	46.962	67.746	68	0.0254	0.176
FM 40	FMN 40	40	40.025	40.064	FMC 40	FMCN 40	40.127	40.166	61.970	62	61.935	61.961	79.746	80	0.0254	0.356
FM 50	FMN 50	50	50.025	50.064	FMC 50	FMCN 50	50.127	50.166	74.970	75	74.935	74.960	99.746	100	0.0254	0.628
FM 60	FMN 60	60	60.030	60.076	FMC 60	FMCN 60	60.182	60.228	89.965	90	89.931	89.957	124.492	125	0.0380	1.117
FM 80	FMN 80	80	80.030	80.076	FMC 80	FMCN 80	80.182	80.228	119.965	120	119.931	119.957	164.492	165	0.0510	2.679

MOUNTING DIMENSIONAL INFORMATION

PART NO.		NOMINAL SIZE (mm)	H	HA	HB	RET. RING PART NO. (DIN 471)	J	JA	JB	METRIC O'RING PART NO.
CLOSED	OPEN		BETWEEN RET. RINGS	RET. RING GRV. WIDTH	RET. RING GRV. DIA.		BETWEEN O'RING GRVS.	O'RING GRV. WIDTH	O'RING GRV. DIA.	
FM 05	FMN 05	5	12	1.14	11.5	12	5	2	9.86	9.7 x 1.3
FM 08	FMN 08	8	14	1.14	15.2	16	5.33	2	13.2	13 x 1.7
FM 10	FMN 10	10	19.4	1.32	18.0	19	5.63	2.44	15.7	15.5 x 2
FM 12	FMN 12	12	20	1.32	21.0	22	6	3.17	17.9	17.5 x 2.5
FM 16	FMN 16	16	22	1.32	24.9	26	8	3.17	21.9	21.5 x 2.5
FM 20	FMN 20	20	28	1.63	30.3	32	10	3.17	27.9	27.5 x 2.5
FM 25	FMN 25	25	40	1.90	37.5	40	12.5	3.17	35.9	35.5 x 2.5
FM 30	FMN 30	30	48	1.90	44.5	47	15	3.17	42.7	42.52 x 2.62
FM 40	FMN 40	40	56	2.20	59.0	62	20	4.1	56.3	56 x 3.5
FM 50	FMN 50	50	72	2.70	72.0	75	25	4.1	69.2	69 x 3.5
FM 60	FMN 60	60	95	3.20	86.4	90	30	7.1	81.7	81 x 5
FM 80	FMN 80	80	125	4.17	116.1	120	40	7.1	111.7	111 x 5

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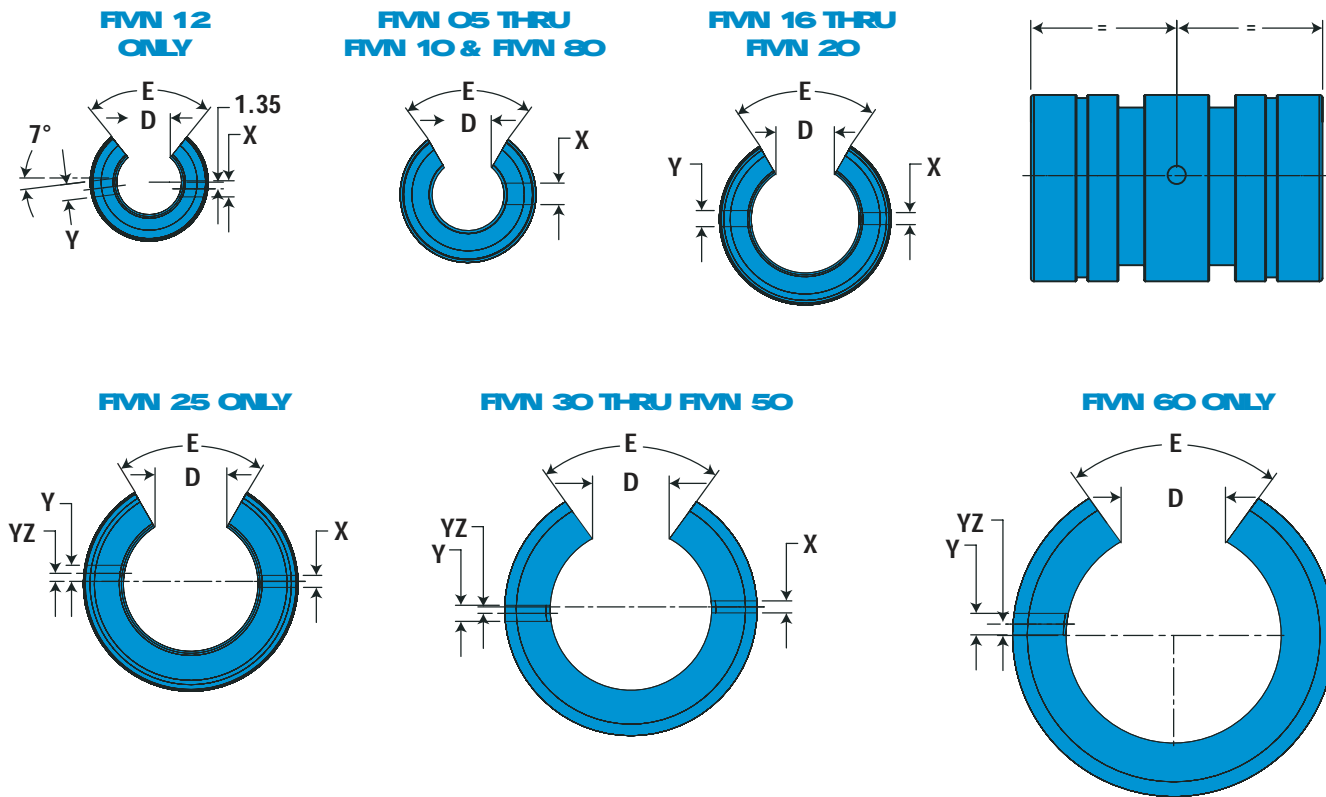


Simplicity® Self-lubricating Bearings

Linear Bearings - ISO Metric

Linear Motion Systems

FMI & FMN LINEAR BEARINGS



Self-lubricating Bearings

OPEN DIMENSIONAL INFORMATION

PART NO.	NOMINAL SIZE	D SLOT WIDE MIN.	E SLOT ANGLE	X RET. HOLE DIA.	Y RET. HOLE DIA.	YZ RET. HOLE LOCATE	BEARING WT.
							(mm)
FMN 05	5	3.2	60	2.2	N / A	N / A	0.0034
FMN 08	8	5.1	60	3.0	N / A	N / A	0.0077
FMN 10	10	6.4	60	3.0	N / A	N / A	0.0119
FMN 12	12	7.6	78	3.0	3.0	7.0	0.0156
FMN 16	16	10.4	78	2.2	3.0	0	0.0213
FMN 20	20	10.8	60	2.2	3.0	0	0.0439
FMN 25	25	13.2	60	3.0	3.0	1.5	0.0893
FMN 30	30	14.2	72	3.0	3.0	2.0	0.1460
FMN 40	40	19.5	72	3.0	3.0	1.5	0.2948
FMN 50	50	24.0	72	3.0	5.0	2.5	0.5202
FMN 60	60	29.6	72	N / A	6.0	0	0.9199
FMN 80	80	39.0	72	N / A	8.0	0	2.2269

LOAD & SPEED DATA

PART NO.	EFFECTIVE SURFACE AREA (sq. in.)	MAX. STATIC LOAD FRELON		EFFECTIVE SURFACE AREA (mm ²)	MAX. STATIC LOAD FRELON	
		GOLD (lbs.)	J (lbs.)		GOLD (N)	J (N)
FMN 05	1.1	232	116	110	2276	1138
FMN 08	2	420	210	200	4120	2060
FMN 10	2.9	610	305	290	5984	2992
FMN 12	3.8	806	403	380	7907	3953
FMN 16	5.8	1210	605	580	11870	5935
FMN 20	9	1890	945	900	18541	9270
FMN 25	14.5	3046	1523	1450	29881	14941
FMN 30	20.4	4284	2142	2040	42026	21013
FMN 40	32	6720	3360	3200	65923	32962
FMN 50	50	10500	5250	5000	103005	51503
FMN 60	75	15750	7875	7500	154508	77254
FMN 80	132	27720	13860	13200	271933	135967

MAX. PV (m/min. * kg/sq. cm) FrelonGold = 430 PV FrelonJ = 215 PV	MAX. PV (m/s. * N/mm²) FrelonGold = 0.70 PV FrelonJ = 0.35 PV
MAX. Speed Running Dry (m/min.) FrelonGold = 91.4 FrelonJ = 42.6	MAX. Speed Running Dry (m/s.) FrelonGold = 1.52 FrelonJ = 0.71
MAX. Speed Running with Lubrication (m/min.) FrelonGold = 251.5 FrelonJ = 122	MAX. Speed Running with Lubrication (m/s.) FrelonGold = 4.19 FrelonJ = 2.03

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Die Set Bushings 24

Flange Mounted Bearings 25-27

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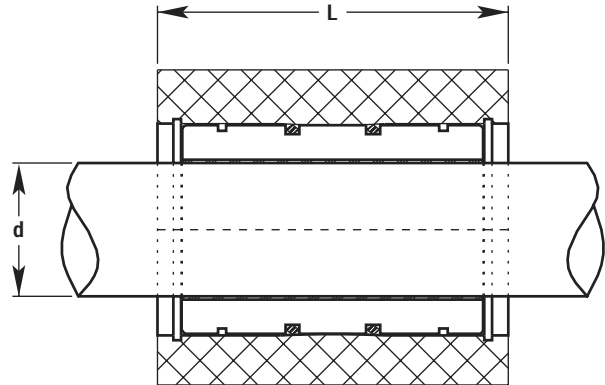
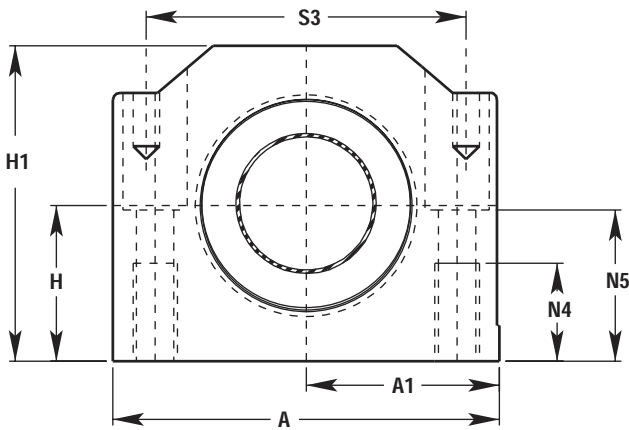
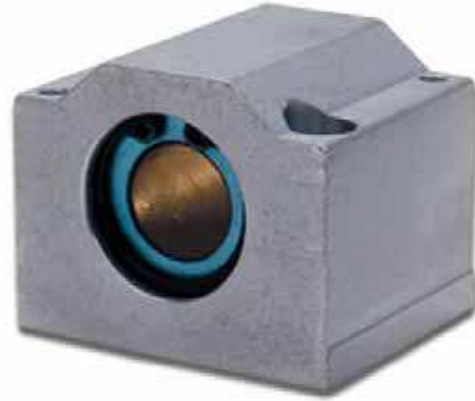
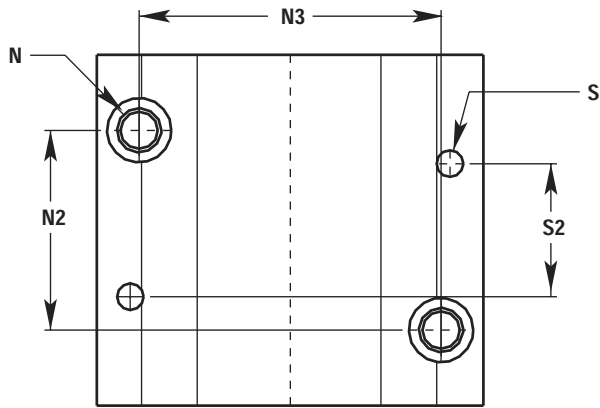


Simplicity® Self-lubricating Bearings

Pillow Blocks - ISO Metric

Linear Motion Systems

FM CLOSED PILLOWLOCKS



Pillow Blocks

CLOSED PILLOWLOCKS

PART NO. CLOSED	d NOM. I.D.	H CENTERLINE	H1	A	A1	L	N	N2	N3	N4	N5	S	S2	S3	MAX. STATIC LOAD (kg.) FRELON		MAX. STATIC LOAD (N) FRELON		ASSEM. WT. (kg.)	
															GOLD	J	GOLD	J		
PM 08	PM 08 C	8	15	28	35	17.5	32	M4 x 0.7	20.15	25.15	9	14.5	N / A	N / A	N / A	420	210	4120	206	0.069
PM 10	PM 10 C	10	16	31.5	40	20	36	M5 x 0.8	20.15	29.15	11	15	4	29	31	610	305	5984	2992	0.095
PM 12	PM 12 C	12	18	35	43	21.5	39	M5 x 0.8	23.15	32.15	11	16.5	4	32	34	806	403	7907	3953	0.118
PM 16	PM 16 C	16	22	42	53	26.5	43	M6 x 1.0	26.15	40.15	13	21	4	35	42	1210	605	11870	5935	0.200
PM 20	PM 20 C	20	25	50	60	30	54	M8 x 1.25	32.15	45.15	18	24	5	45	50	1890	945	18541	9270	0.329
PM 25	PM 25 C	25	30	60	78	39	67	M10 x 1.5	40.15	60.15	22	29	6	20	64	3046	1523	29881	14941	0.655
PM 30	PM 30 C	30	35	71	87	43.5	79	M10 x 1.5	45.15	68.15	22	34	6	30	72	4284	2142	42026	21013	1.020
PM 40	PM 40 C	40	45	91	108	54	91	M12 x 1.75	58.15	86.15	26	44	8	35	90	6720	3360	65923	32962	1.846
PM 50	PM 50 C	50	50	105	132	66	113	M16 x 2.0	50.20	108.20	34	49	10	42	108	10500	5250	103005	51503	3.169

- NOTES:** (1) Standard pillow block assembly includes self-aligning housing and precision bearing.
 (2) All standard metric pillow blocks use standard "FM" series bearings found on page 18.
 (3) Straight bore pillow block assembly includes standard O.D. "FM" series bearing in straight bore housing.

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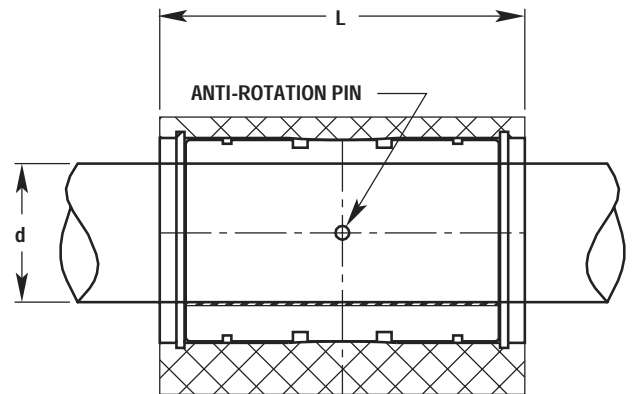
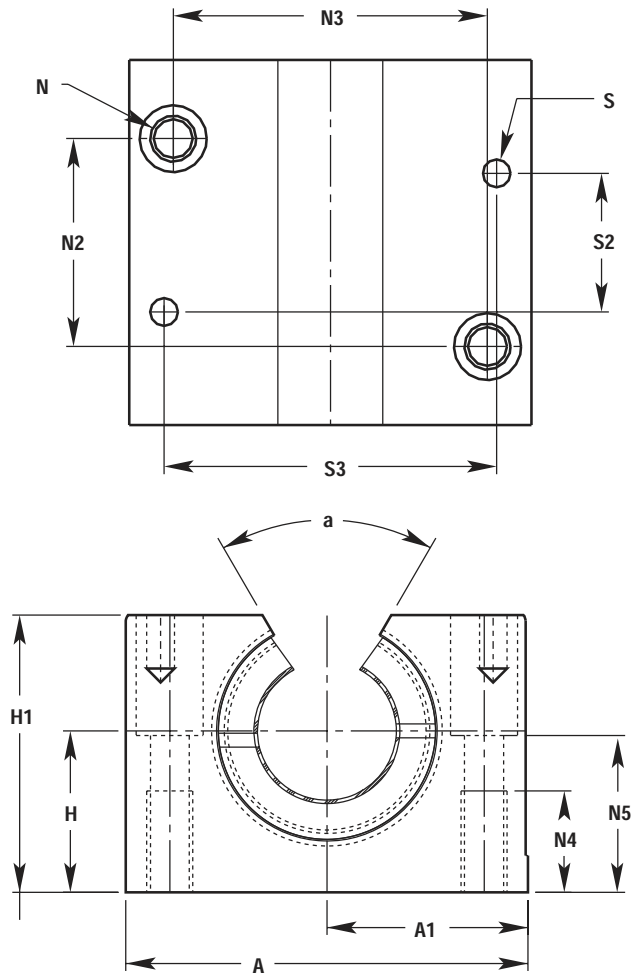


Simplicity® Self-lubricating Bearings

Pillow Blocks - ISO Metric

Linear Motion Systems

PMN OPEN PILLOWBLOCKS



Pillow Blocks

OPEN PILLOWBLOCKS

PART NO. CLOSED	d NOM. I.D.	H CENTERLINE	H1	A	A1 CENTERLINE	L	N	N2	N3	N4	N5	S	S2	S3	a	MAX. STATIC LOAD (kg.)		MAX. STATIC LOAD (N)		ASSEM. WT. (kg.)
																FRELON	FRELON	FRELON	FRELON	
PMN 12	12	18	28	43	21.5	39	M5 x 0.8	23.15	32.15	11	16.5	4	32	34	66	806	403	7907	3953	0.096
PMN 16	16	22	35	53	26.5	43	M6 x 1.0	26.15	40.15	13	21	4	35	42	68	1210	605	11870	5935	0.162
PMN 20	20	25	42	60	30	54	M8 x 1.25	32.15	45.15	18	24	5	45	50	60	1890	945	18541	9270	0.267
PMN 25	25	30	51	78	39	67	M10 x 1.5	40.15	60.15	22	29	6	20	64	60	3046	1523	29881	14941	0.536
PMN 30	30	35	60	87	43.5	79	M10 x 1.5	45.15	68.15		34	6	30	72	60	4284	2142	42026	21013	0.831
PMN 40	40	45	77	108	54	91	M12 x 1.75	58.15	86.15	26	44	8	35	90	60	6720	3360	65923	32962	1.499
PMN 50	50	50	88	132	66	113	M16 x 2.0	50.20	108.20	34	49	10	42	108	60	10500	5250	103005	51503	2.539

NOTES: (1) Standard pillow block assembly includes self-aligning housing and precision bearing.
 (2) All standard metric pillow blocks use standard "FM" series bearings found on page 18.

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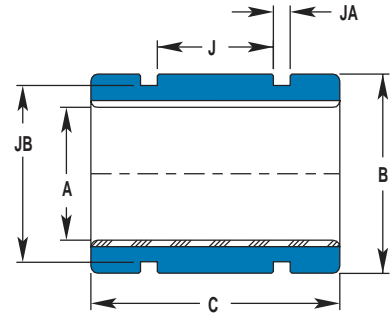
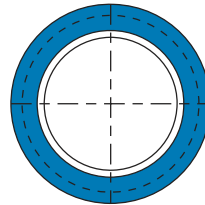


Simplicity® Self-lubricating Bearings

Compact Thin Wall Bearings - ISO Metric

Linear Motion Systems

FMT COMPACT THIN WALL BEARINGS



BASIC DIMENSIONAL INFORMATION

PRECISION I.D. SERIES Similar to preloaded ball bearing				COMPENSATED I.D. SERIES Similar to standard ball bearing			B O.D. (h7)		C LENGTH (h13)		CONCENTRIC MAX. (mm)	BEARING WEIGHT (kg.)
PART NO.	NOMINAL SIZE (mm)	A BEARING I.D. (F8)		PART NO.	A BEARING I.D.							
CLOSED		MIN.	MAX.	CLOSED	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.		
FMT 06	6	6.010	6.028	FMTC 06	6.060	6.078	11.982	12	21.746	22	0.0254	0.0057
FMT 08	8	8.013	8.035	FMTC 08	8.063	8.085	14.982	15	23.746	24	0.0254	0.0071
FMT 10	10	10.013	10.035	FMTC 10	10.063	10.085	16.982	17	25.746	26	0.0254	0.0085
FMT 12	12	12.016	12.043	FMTC 12	12.066	12.093	18.979	19	27.746	28	0.0254	0.0113
FMT 14	14	14.016	14.043	FMTC 14	14.066	14.093	20.979	21	27.746	28	0.0254	0.0128
FMT 16	16	16.016	16.043	FMTC 16	16.066	16.093	23.979	24	29.746	30	0.0254	0.0184
FMT 20	20	20.020	20.053	FMTC 20	20.096	20.129	27.979	28	29.746	30	0.0254	0.0227
FMT 25	25	25.020	25.053	FMTC 25	25.096	25.129	34.975	35	39.746	40	0.0254	0.0439
FMT 30	30	30.020	30.053	FMTC 30	30.090	30.129	39.975	40	49.746	50	0.0254	0.0652
FMT 40	40	40.025	40.064	FMTC 40	40.127	40.166	51.970	52	59.746	60	0.0254	0.1233
FMT 50	50	50.025	50.064	FMTC 50	50.127	50.166	61.970	62	69.746	70	0.0254	0.1772

MOUNTING DIMENSIONS

PART NO.		NOMINAL SIZE	J BETWEEN O-RING GRVS.	JA O-RING GRV. WIDTH	JB O-RING GRV. DIA.	METRIC O-RING PART NO.
PRECISION	COMPENSATED					
FMT 06	FMTC 06	6	N / A	N / A	N / A	N / A
FMT 08	FMTC 08	8	10.0	2.000	12.200	12 x 1.7
FMT 10	FMTC 10	10	12.0	2.000	14.400	14 x 1.6
FMT 12	FMTC 12	12	14.0	2.000	16.600	16 x 1.5
FMT 14	FMTC 14	14	14.0	2.000	18.500	18 x 1.5
FMT 16	FMTC 16	16	14.0	2.000	21.300	21.1 x 1.6
FMT 20	FMTC 20	20	14.0	2.000	25.500	25 x 1.5
FMT 25	FMTC 25	25	22.0	3.200	30.900	30.5 x 2.5
FMT 30	FMTC 30	30	30.0	3.200	35.900	35.5 x 2.5
FMT 40	FMTC 40	40	40.0	4.100	46.200	46 x 3.5
FMT 50	FMTC 50	50	50.0	4.100	56.300	26 x 3.5

LOAD & SPEED DATA

PART NO.	EFFECTIVE SURFACE AREA (sq. cm.)	MAX. STATIC LOAD FRELON		EFFECTIVE SURFACE AREA (mm ²)	MAX. STATIC LOAD FRELON	
		GOLD (lbs.)	J (lbs.)		GOLD (N)	J (N)
FMT 06	1.3	278	139	130	2727	1364
FMT 08	1.9	404	202	190	3963	1982
FMT 10	2.6	546	273	260	5356	2678
FMT 12	3.4	706	353	340	6926	3463
FMT 14	3.9	824	412	390	8083	4042
FMT 16	4.8	1008	504	480	9888	4944
FMT 20	6.0	1260	630	600	12361	6180
FMT 25	10.0	2100	1050	1000	20601	10301
FMT 30	15.0	3150	1575	1500	30902	15451
FMT 40	24.0	5040	2520	2400	49442	24721
FMT 50	35.0	7350	3675	3500	72104	36052
	MAX. PV (m/min. * kg/sq. cm) FrelonGold = 430 PV FrelonJ = 215 PV			MAX. PV (m/s. * N/mm ²) FrelonGold = 0.70 PV FrelonJ = 0.35 PV		
	MAX. Speed Running Dry (m/min.) FrelonGold = 91.4 FrelonJ = 42.6			MAX. Speed Running Dry (m/s.) FrelonGold = 1.52 FrelonJ = 0.71		
	MAX. Speed Running with Lubrication (m/min.) FrelonGold = 251.5 FrelonJ = 122			MAX. Speed Running with Lubrication (m/s.) FrelonGold = 4.19 FrelonJ = 2.03		

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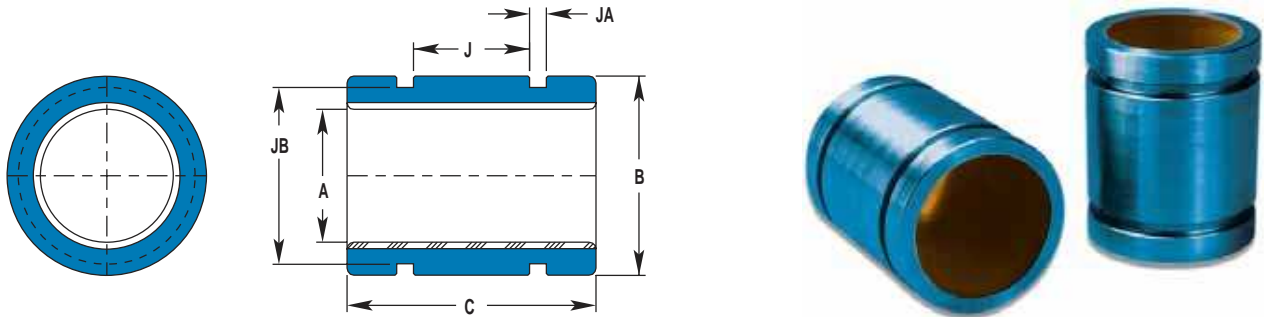


Simplicity® Self-lubricating Bearings

Compact Thin Wall Bearings - ISO Metric

Linear Motion Systems

FG COMPACT THIN WALL BEARINGS



BASIC DIMENSIONAL INFORMATION

PRECISION I.D. SERIES Similar to preloaded ball bearing				COMPENSATED I.D. SERIES Similar to standard ball bearing			B O.D. (h7)		C LENGTH (h13)		CONCENTRIC MAX. mm	BEARING WEIGHT (kg.)
PART NO.	NOMINAL SIZE (mm)	A BEARING I.D. (F8)		PART NO.	A BEARING I.D.							
CLOSED		MIN.	MAX.	CLOSED	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.		
FG 06	6	6.010	6.028	FGC 06	6.060	6.078	11.98	12	17.8	18	0.0254	0.004
FG 08	8	8.013	8.035	FGC 08	8.063	8.085	14.98	15	19.8	20	0.0254	0.006
FG 10	10	10.013	10.035	FGC 10	10.063	10.085	16.98	17	21.8	22	0.0254	0.008
FG 12	12	12.016	12.043	FGC 12	12.066	12.093	21.98	22	26.8	27	0.0254	0.018
FG 15	15	15.016	15.043	FGC 15	15.066	15.093	24.98	25	27.8	28	0.0254	0.022
FG 16	16	16.016	16.043	FGC 16	16.066	16.093	25.98	26	29.8	30	0.0254	0.025
FG 18	18	18.020	18.053	FGC 18	18.096	18.129	27.98	28	29.8	30	0.0254	0.027
FG 20	20	20.020	20.053	FGC 20	20.096	20.129	31.98	32	34.8	35	0.0254	0.044
FG 25	25	25.020	25.053	FGC 25	25.096	25.129	39.98	40	44.8	45	0.0254	0.091
FG 30	30	30.020	30.053	FGC 30	30.096	30.129	44.98	45	53.8	54	0.0254	0.127
FG 35	35	35.025	35.064	FGC 35	35.127	35.166	51.98	52	61.7	62	0.0254	0.189
FG 40	40	40.025	40.064	FGC 40	40.127	40.166	59.98	60	71.7	72	0.0254	0.301
FG 50	50	50.025	50.064	FGC 50	50.127	50.166	74.98	75	89.7	90	0.0254	0.596

MOUNTING DIMENSIONS

PART NO.		NOMINAL SIZE	J BETWEEN O-RING GRVS.	JA O-RING GRV. WIDTH	JB O-RING GRV. DIA.	METRIC O-RING PART NO.
PRECISION	COMPENSATED					
FG 06	FGC 06	6	N / A	N / A	N / A	N / A
FG 08	FGC 08	8	8.0	2.032	12.201	12 x 1.7
FG 10	FGC 10	10	8.3	2.032	14.415	14 x 1.6
FG 12	FGC 12	12	12.0	3.175	17.907	17.5 x 2.5
FG 15	FGC 15	15	12.7	3.175	20.671	20 x 2.65
FG 16	FGC 16	16	12.7	3.175	21.882	21.5 x 2.5
FG 18	FGC 08	18	14.0	3.175	23.885	23.5 x 2.5
FG 20	FGC 20	20	17.0	3.175	27.864	27.5 x 2.5
FG 25	FGC 25	25	24.0	3.175	35.865	35.5 x 2.5
FG 30	FGC 30	30	30.0	3.175	40.895	40 x 2.5
FG 35	FGC 35	35	36.0	4.115	46.200	46 x 3.5
FG 40	FGC 40	40	37.3	4.115	54.255	53 x 3.5
FG 50	FGC 50	50	50	4.115	69.215	69 x 3.5

LOAD & SPEED DATA

PART NO.	EFFECTIVE SURFACE AREA (sq. cm.)	MAX. STATIC LOAD FRELON		EFFECTIVE SURFACE AREA (mm ²)	MAX. STATIC LOAD FRELON	
		GOLD (lbs.)	J (lbs.)		GOLD (N)	J (N)
FG 06	1.1	226	113	110	2217	1109
FG 08	1.6	336	168	160	3296	1648
FG 10	2.2	462	231	220	4532	2266
FG 12	3.2	680	340	320	6671	3335
FG 15	4.2	882	441	420	8652	4326
FG 16	4.8	1008	504	480	9888	4944
FG 18	5.4	1134	567	540	11125	5562
FG 20	7.0	1470	735	700	14421	7210
FG 25	11.3	2362	1181	1130	23171	11586
FG 30	16.2	3402	1701	1620	33374	16687
FG 35	21.7	4558	2279	2170	44714	22357
FG 40	28.8	6048	3024	2880	59331	29665
FG 50	45.0	9450	4725	4500	92705	46352
	MAX. PV (m/min. * kg/sq. cm) FrelonGold = 430 PV FrelonJ = 215 PV			MAX. PV (m/s. * N/mm²) FrelonGold = 0.70 PV FrelonJ = 0.35 PV		
	MAX. Speed Running Dry (m/min.) FrelonGold = 91.4 FrelonJ = 42.6			MAX. Speed Running Dry (m/s.) FrelonGold = 1.52 FrelonJ = 0.71		
	MAX. Speed Running with Lubrication (m/min.) FrelonGold = 251.5 FrelonJ = 122			MAX. Speed Running with Lubrication (m/s.) FrelonGold = 4.19 FrelonJ = 2.03		

FrelonGOLD® and FrelonJ® are registered trademarks of Pacific Bearing.

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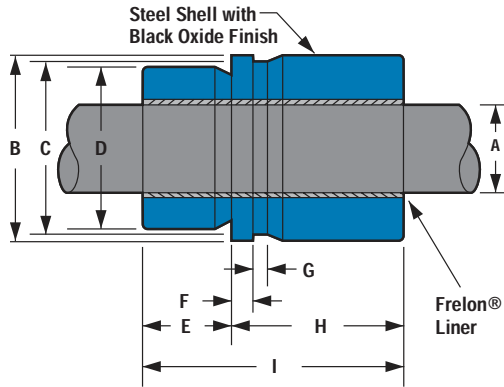


Simplicity® Self-lubricating Bearings

Die Set Bushings - ISO Metric

Linear Motion Systems

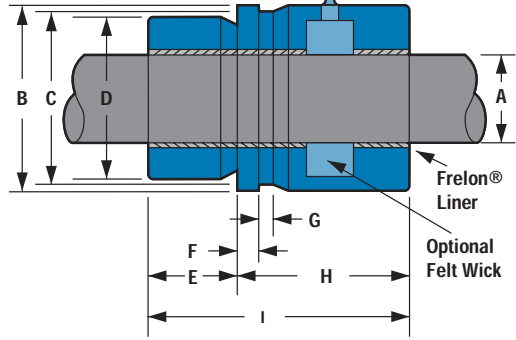
PACM DIE SET BUSHINGS



Lube System Optional

Order as JKM

See pg. 8 for information



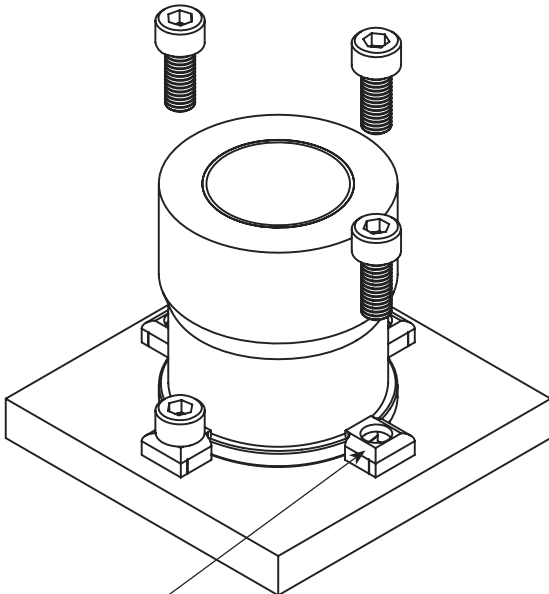
PART NO.	NOMINAL SIZE	A BEARING I.D.		PART NO.	A BEARING I.D.		B FLANGE & BARREL O.D. (H7)		C CLAMP DIA.	D PILOT O.D. (H7)		E PILOT LENGTH	F FLANGE LENGTH	G RECESS LENGTH	H HEAD LENGTH	I OVERALL LENGTH	EFFECTIVE SURFACE AREA (sq. cm)	MAX. STATIC LOAD (kg.) FRELON		BEARING WEIGHT (kg.)
		MIN.	MAX.		COMPENSATED	MIN.	MAX.	MIN.		MAX.	MIN.							MAX.	GOLD	
PACM 19	19	19.020	19.053	PACM 19 C	19.096	19.129	33.975	34	29	27.979	28	18	5	18	52	70	13.928	2925	1469	0.282
PACM 25	25	25.020	25.053	PACM 25 C	25.096	25.129	43.975	44	39	37.975	38	23		20	57	80	20.944	4398	2209	0.551
PACM 32	32	32.020	32.053	PACM 32 C	32.096	32.129	52.970	53	48	44.975	45	26		64	90	30.159	6333	3180	0.834	
PACM 40	40	40.025	40.064	PACM 40 C	40.127	40.166	62.970	63	58	53.970	54	30	25	70	100	41.888	8796	4417	1.229	
PACM 50	50	50.025	50.064	PACM 50 C	50.127	50.166	78.970	79	74	64.970	65	35		75	110	57.596	12095	6073	2.055	
PACM 63	63	63.030	63.076	PACM 63 C	63.182	63.228	91.965	92	87	80.970	81	48		82	130	85.765	10811	9044	2.984	
PACM 80	80	80.030	80.076	PACM 80 C	80.182	80.228	110.965	111	106	99.965	100	48	102	150	125.664	26389	13251	4.772		

NOTES: Formula used for effective surface area is $(\pi * ID * L)/3$

Max static load is effective surface area times max load for FrelonGOLD®

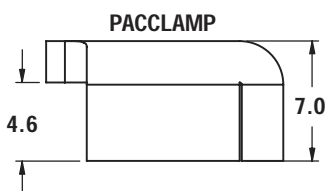
- 210 kgf/cm² is the rating for FrelonGOLD®

- 105.45 kgf/cm² is the rating for FrelonJ®



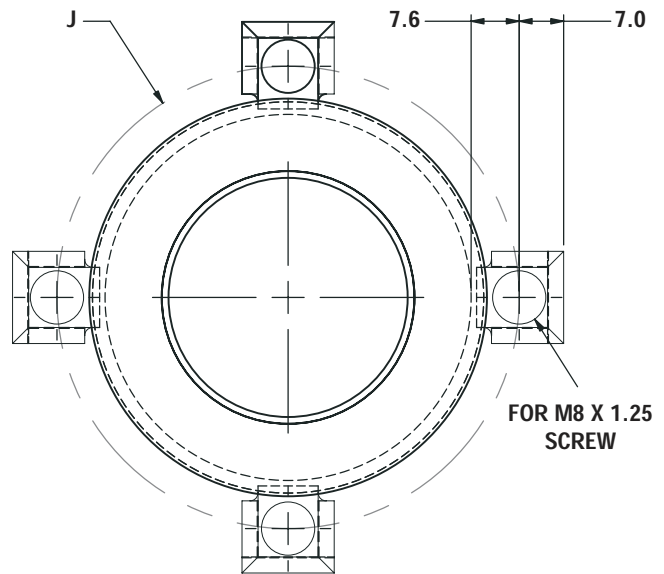
4 PAC CLAMPS ARE SHIPPED WITH EACH DIESET

EXTRAS CAN BE ORDERED USING PART #: PACCLAMP



NOTE: DIMENSION FOR CALCULATING BOLT CIRCLE

$$J = C + 15.8\text{mm}$$



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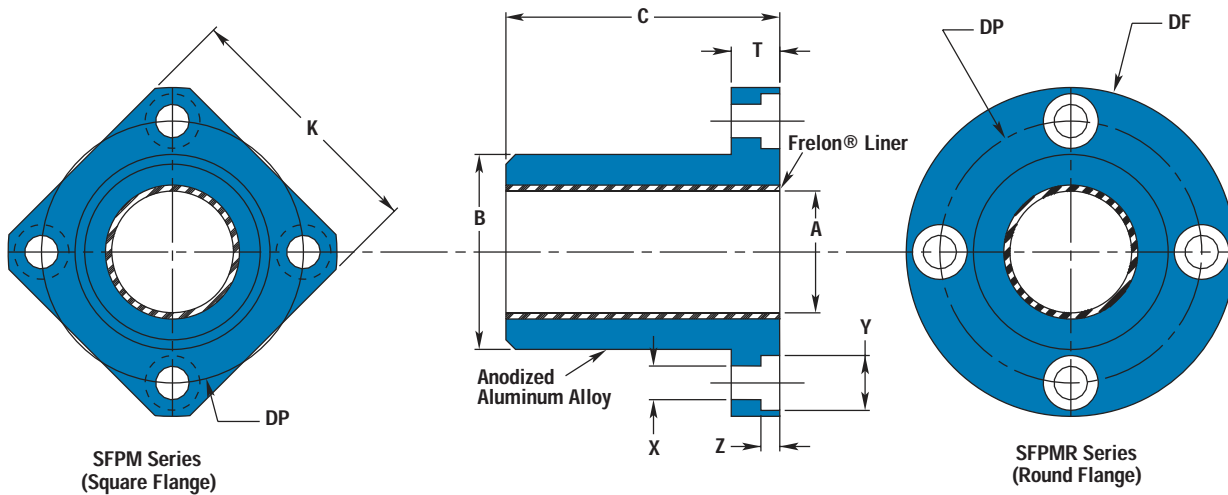


Simplicity® Self-lubricating Bearings

Flange Bearings - ISO Metric

Linear Motion Systems

SFPM/FLANGE BEARINGS



SFPM Series
(Square Flange)

SFPMR Series
(Round Flange)

BASIC DIMENSIONAL INFORMATION

PRECISION I.D. SERIES Similar to preloaded ball bearing					COMPENSATED I.D. SERIES Similar to standard ball bearing				B BODY O.D. (h7)		C LENGTH (h13)		EFFECTIVE SURFACE AREA (sq. cm)	MAX. STATIC LOAD (kg.) FRELON	
PART NO.		NOMINAL SIZE	A BEARING I.D. (F8)		PART NO.		A BEARING I.D.							MIN.	MAX.
SQUARE	ROUND	(mm)	MIN.	MAX.	SQUARE	ROUND	MIN.	MAX.							
SFPM 08	SFPMR 08	8	8.013	8.035	SFPM 08C	SFPMR 08C	8.063	8.085	15.982	16	24.8	25	2.094	440	221
SFPM 12	SFPMR 12	12	12.016	12.043	SFPM 12C	SFPMR 12C	12.066	12.093	21.979	22	31.8	32	4.021	844	424
SFPM 16	SFPMR 16	16	16.016	16.043	SFPM 16C	SFPMR 16C	16.066	16.093	25.979	26	35.8	36	6.032	1267	636
SFPM 20	SFPMR 20	20	20.020	20.053	SFPM 20C	SFPMR 20C	20.096	20.129	31.975	32	44.8	45	9.425	1979	994
SFPM 25	SFPMR 25	25	25.020	25.053	SFPM 25C	SFPMR 25C	25.096	25.129	39.975	40	57.7	58	15.184	3189	1601
SFPM 30	SFPMR 30	30	30.020	30.053	SFPM 30C	SFPMR 30C	30.096	30.129	46.975	47	67.7	68	21.363	4486	2253
SFPM 40	SFPMR 40	40	40.025	40.064	SFPM 40C	SFPMR 40C	40.127	40.166	61.970	62	79.7	80	33.510	7037	3534
SFPM 50	SFPMR 50	50	50.025	50.064	SFPM 50C	SFPMR 50C	50.127	50.166	74.970	75	99.7	100	52.360	10996	5521
SFPM 60	SFPMR 60	60	60.030	60.076	SFPM 60C	SFPMR 60C	60.182	60.228	89.965	90	124.6	125	78.540	16493	8282
SFPM 80	SFPMR 80	80	80.030	80.076	SFPM 80C	SFPMR 80C	80.182	80.228	119.965	120	164.6	165	138.230	29028	14576

NOTES: Formula used for effective surface area is $(\pi * ID * L)/3$

Max static load is effective surface area times max load for FrelonGOLD®

- 210 kgf/cm² is the rating for FrelonGOLD®

- 105.45 kgf/cm² is the rating for FrelonJ®

MOUNTING DIMENSIONAL INFORMATION

PART NO.		K SQUARE	Df O.D.	T LENGTH	Dp BOLT CIRCLE	X HOLE	Y C'BORE DEPTH	Z C'BORE DEPTH	CLAMPING BOLT	CONCENTRICITY	SQUARENESS	SFPM WEIGHTS (kg.)	SFPMR WEIGHTS (kg.)
SQUARE	ROUND	MAX.	MAX.	MAX.									
SFPM 08	SFPMR 08	25	32	8	24	3.5	6	3.1	M 3	0.012	0.012	0.018	0.022
SFPM 12	SFPMR 12	32	42	9	32	4.5	7.5	4.1	M 4			0.037	0.046
SFPM 16	SFPMR 16	35	46		36							0.047	0.058
SFPM 20	SFPMR 20	42	54	11	43	5.5	9	5.1	M 5	0.015	0.015	0.085	0.101
SFPM 25	SFPMR 25	50	62		51							0.156	0.172
SFPM 30	SFPMR 30	60	76	14	62	6.6	11	6.1	M 6	0.017	0.017	0.257	0.293
SFPM 40	SFPMR 40	75	98		80							0.500	0.595
SFPM 50	SFPMR 50	88	112	18	94	9.0	14	8.1	M 8	0.020	0.020	0.825	0.930
SFPM 60	SFPMR 60	106	134		112							1.506	1.697
SFPM 80	SFPMR 80	136	164	24	142	11.0	17	11.1	M 10			3.308	3.483

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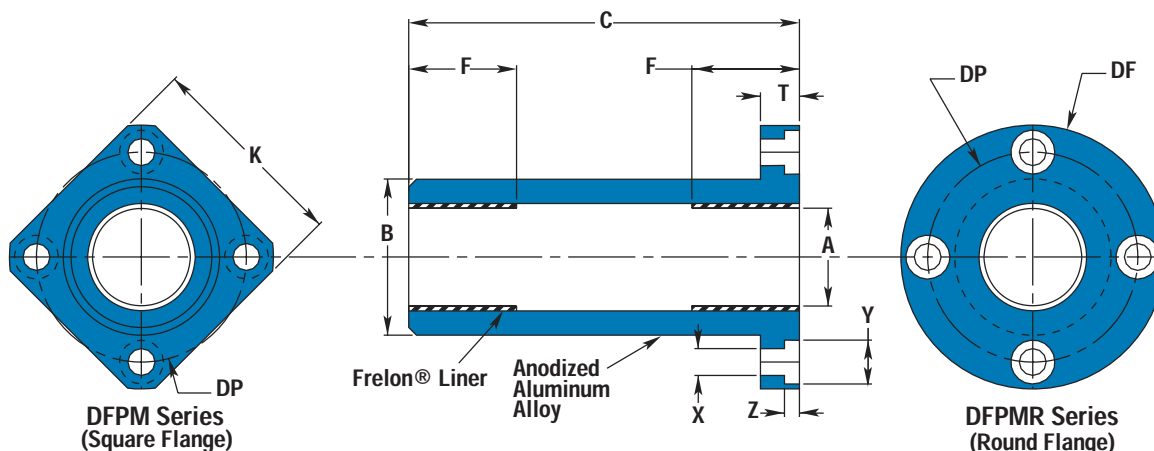


Simplicity® Self-lubricating Bearings

Flange Bearings - ISO Metric

Linear Motion Systems

DFPM FLANGE BEARINGS



BASIC DIMENSIONAL INFORMATION

PRECISION I.D. SERIES Similar to preloaded ball bearing					COMPENSATED I.D. SERIES Similar to standard ball bearing				B		C		F	EFFECTIVE SURFACE AREA	MAX. STATIC LOAD (kg.) FRELON	
PART NO.		NOMINAL SIZE	A BEARING I.D. (F8)		PART NO.		A BEARING I.D.		BODY O.D. (h7)		LENGTH				LENGTH EACH END	(sq. cm)
SQUARE	ROUND	(mm)	MIN.	MAX.	SQUARE	ROUND	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.				
DFPM 08	DFPMR 08	8	8.013	8.035	DFPM 08C	DFPMR 08C	8.063	8.085	15.982	16	44.7	45	12.1	2.027	426	214
DFPM 12	DFPMR 12	12	12.016	12.043	DFPM 12C	DFPMR 12C	12.066	12.093	21.979	22	56.7	57	15.4	3.870	813	408
DFPM 16	DFPMR 16	16	16.016	16.043	DFPM 16C	DFPMR 16C	16.066	16.093	25.979	26	69.7	70	20.4	6.836	1436	721
DFPM 20	DFPMR 20	20	20.020	20.053	DFPM 20C	DFPMR 20C	20.096	20.129	31.975	32	79.7	80	22.1	9.257	1944	976
DFPM 25	DFPMR 25	25	25.020	25.053	DFPM 25C	DFPMR 25C	25.096	25.129	39.975	40	111.6	112	33.1	17.331	3640	1828
DFPM 30	DFPMR 30	30	30.020	30.053	DFPM 30C	DFPMR 30C	30.096	30.129	46.975	47	122.6	123	35	21.991	4618	2319
DFPM 40	DFPMR 40	40	40.025	40.064	DFPM 40C	DFPMR 40C	40.127	40.166	61.970	62	150.6	151	44	36.861	7741	3887
DFPM 50	DFPMR 50	50	50.025	50.064	DFPM 50C	DFPMR 50C	50.127	50.166	74.970	75	191.6	192	69.5	72.780	15284	7675
DFPM 60	DFPMR 60	60	60.030	60.076	DFPM 60C	DFPMR 60C	60.182	60.228	89.965	90	208.6	209	73	91.735	19264	9673

NOTES: Formula used for effective surface area is $(\pi * ID * L)/3$
 Max static load is effective surface area times max load for FrelonGOLD®
 - 210 kgf/cm² is the rating for FrelonGOLD®
 - 105.45 kgf/cm² is the rating for FrelonJ®
 Frelon pads in each end (F dimension)

MOUNTING DIMENSIONAL INFORMATION

PART NO.		K SQUARE	Df O.D.	T LENGTH	Dp BOLT CIRCLE	X HOLE	Y C'BORE DEPTH	Z C'BORE DEPTH	CLAMPING BOLT	CONCENTRICITY	SQUARENESS	DFPM WEIGHTS (kg.)	DFPMR WEIGHTS (kg.)	
SQUARE	ROUND	MAX.	MAX.	MAX.										
DFPM 08	DFPMR 08	25	32	8	24	3.5	6	3.1	M 3	0.015	0.015	0.027	0.031	
DFPM 12	DFPMR 12	32	42	9	32	4.5	7.5	4.1	M 4			0.055	0.064	
DFPM 16	DFPMR 16	35	46									0.078	0.089	
DFPM 20	DFPMR 20	42	54	11	43	5.5	9	5.1	M 5	0.133	0.149			
DFPM 25	DFPMR 25	50	62							51	0.270	0.286		
DFPM 30	DFPMR 30	60	76	14	62	6.6	11	6.1	M 6	0.413	0.450			
DFPM 40	DFPMR 40	75	98	18	80	9.0	14	8.1	M 8	0.020	0.020	0.846	0.942	
DFPM 50	DFPMR 50	88	112									94	1.450	1.556
DFPM 60	DFPMR 60	106	134									112	2.329	2.519
				24	112	11.0	17	11.1	M 10	0.025	0.025			

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Flange Bearings

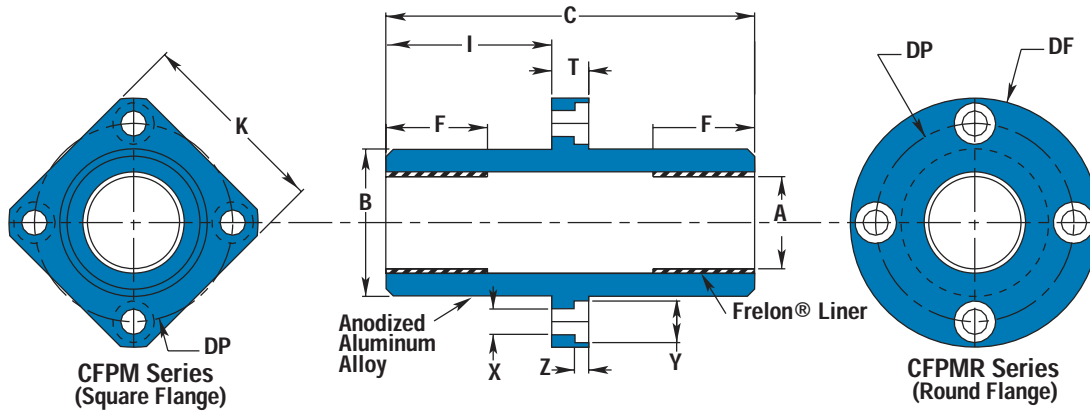


Simplicity® Self-lubricating Bearings

Flange Bearings - ISO Metric

Linear Motion Systems

CFPM FLANGE BEARINGS



BASIC DIMENSIONAL INFORMATION

PRECISION I.D. SERIES Similar to preloaded ball bearing				COMPENSATED I.D. SERIES Similar to standard ball bearing				B		C		I	F	EFFECTIVE SURFACE AREA (sq. cm)	MAX. STATIC LOAD (kg.) FRELON		
PART NO.		NOMINAL SIZE	A BEARING I.D. (F8)		PART NO.		A BEARING I.D.		MIN.	MAX.	MIN.	MAX.	LENGTH TO FLNG.		LENGTH EACH END	GOLD	J
SQUARE	ROUND	(mm)	MIN.	MAX.	SQUARE	ROUND	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.					
CFPM 08	CFPMR 08	8	8.013	8.035	CFPM 08C	CFPMR 08C	8.063	8.085	15.982	16	45.7	46.3	20.5	12.1	2.027	426	214
CFPM 12	CFPMR 12	12	12.016	12.043	CFPM 12C	CFPMR 12C	12.066	12.093	21.979	22	60.7	61.3	27.5	15.4	3.870	813	408
CFPM 16	CFPMR 16	16	16.016	16.043	CFPM 16C	CFPMR 16C	16.066	16.093	25.979	26	67.7	68.3	31	20.4	6.836	1436	721
CFPM 20	CFPMR 20	20	20.020	20.053	CFPM 20C	CFPMR 20C	20.096	20.129	31.975	32	79.7	80.3	36	22.1	9.257	1944	976
CFPM 25	CFPMR 25	25	25.020	25.053	CFPM 25C	CFPMR 25C	25.096	25.129	39.975	40	111.7	112.3	52	33.1	17.331	3640	1828
CFPM 30	CFPMR 30	30	30.020	30.053	CFPM 30C	CFPMR 30C	30.096	30.129	46.975	47	122.7	123.3	56.5	35	21.991	4618	2319
CFPM 40	CFPMR 40	40	40.025	40.064	CFPM 40C	CFPMR 40C	40.127	40.166	61.970	62	150.7	151.3	69	44	36.861	7741	3887
CFPM 50	CFPMR 50	50	50.025	50.064	CFPM 50C	CFPMR 50C	50.127	50.166	74.970	75	191.7	192.3	89.5	69.5	72.780	15284	7675
CFPM 60	CFPMR 60	60	60.030	60.076	CFPM 60C	CFPMR 60C	60.182	60.228	89.965	90	208.7	209.3	95.5	73	91.735	19264	9673

NOTES: Formula used for effective surface area is $(\pi * ID * L)/3$
 Max static load is effective surface area times max load for FrelonGOLD®
 - 210 kgf/cm² is the rating for FrelonGOLD®
 - 105.45 kgf/cm² is the rating for FrelonJ®
 Frelon pads in each end (F dimension)

MOUNTING DIMENSIONAL INFORMATION

PART NO.		K SQUARE	Df O.D.	T LENGTH	Dp BOLT CIRCLE	X HOLE	Y C'BORE DEPTH	Z C'BORE DEPTH	CLAMPING BOLT	CONCENTRICITY	SQUARENESS	CFPM WEIGHTS (kg.)	CFPMR WEIGHTS (kg.)
SQUARE	ROUND	MAX.	MAX.	MAX.									
CFPM 08	CFPMR 08	25	32	8	24	3.5	6	3.1	M 3	0.015	0.015	0.027	0.031
CFPM 12	CFPMR 12	32	42	9	32	4.5	7.5	4.1	M 4			0.058	0.067
CFPM 16	CFPMR 16	35	46		36							0.077	0.088
CFPM 20	CFPMR 20	42	54	11	43	5.5	9	5.1	M 5	0.017	0.017	0.133	0.149
CFPM 25	CFPMR 25	50	62		51							0.270	0.286
CFPM 30	CFPMR 30	60	76	14	62	6.6	11	6.1	M 6			0.413	0.450
CFPM 40	CFPMR 40	75	98	18	80	9.0	14	8.1	M 8	0.020	0.020	0.846	0.942
CFPM 50	CFPMR 50	88	112		94							1.450	1.556
CFPM 60	CFPMR 60	106	134	24	112	11.0	17	11.1	M 10			0.025	0.025

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