

## Standard Marine Range

### PHENOLIC BEARINGS

#### Tolerances

Bearing Size	Product Code	I/D	O/D
Metric Bearings		mm	mm
25 x 40 x 100mm	MPSF25	25.27-25.37	40.026-40.042
30 x 45 x 120mm	MPSF30	30.29-30.39	45.026-45.042
35 x 50 x 140mm	MPSF35	35.22-35.32	50.026-50.042
40 x 55 x 160mm	MPSF40	40.27-40.37	55.032-55.051
45 x 65 x 180mm	MPSF45	45.30-45.40	65.032-65.051
50 x 70 x 200mm	MPSF50	50.28-50.38	70.032-70.051
55 x 75 x 220mm	MPSF55	55.29-55.39	75.032-75.051
60 x 80 x 240mm	MPSF60	60.37-60.47	80.032-80.051
65 x 85 x 260mm	MPSF65	65.28-65.38	85.037-85.059
70 x 90 x 280mm	MPSF70	70.33-70.43	90.037-90.059
75 x 95 x 300mm	MPSF75	75.34-75.44	95.037-95.059
80 x 100 x 320mm	MPSF80	80.35-80.45	100.037-100.059
85 x 105 x 340mm	MPSF85	85.40-85.50	105.037-105.059
90 x 110 x 360mm	MPSF90	90.41-90.51	110.037-110.059
95 x 115 x 380mm	MPSF95	95.43-95.53	115.037-115.059
100 x 125 x 400mm	MPSF100	100.44-100.54	125.043-125.068

Metric/Imperial Bearings		mm	inches
20mm x 1 1/4" x 80mm	MIPSF20	20.18-20.28	1.2510-1.2516
25mm x 1 1/2" x 100mm	MIPSF25	25.23-25.33	1.5010-1.5016
30mm x 1 3/4" x 120mm	MIPSF30	30.24-30.34	1.7510-1.7516
35mm x 1 7/8" x 140mm	MIPSF35	35.25-35.35	1.8762-1.8770
40mm x 2 1/8" x 160mm	MIPSF40	40.26-40.36	2.1262-2.1270
45mm x 2 3/8" x 180mm	MIPSF45	45.27-45.37	2.3764-2.3773
50mm x 2 5/8" x 200mm	MIPSF50	50.34-50.44	2.6262-2.6270
60mm x 3" x 240mm	MIPSF60	60.32-60.42	3.0014-3.0021

Imperial Bearings		inches	inches
3/4" x 1-1/4" x 3"	IPSF06	0.757-0.761	1.2510-1.2516
1" x 1 1/4" x 4"	IPSF08-2	1.007-1.011	1.2510-1.2516
1"x1 1/2"x 4"	IPSF08	1.009-1.013	1.5010-1.5016
1-1/8" x 1-5/8" x 4-1/2"	IPSF09	1.134-1.138	1.6260-1.6266
1-1/4" x 1-1/2" x 5"	IPSF10-2	1.263-1.267	1.5010-1.5016
1 1/4" x 1 3/4" x 5"	IPSF10	1.260-1.264	1.7510-1.7516
1-1/4" x 2" x 5"	IPSF10+2	1.260-1.264	2.0012-2.0020
1 1/2" x 2" x 6"	IPSF12	1.509-1.513	2.0014-2.0021
1 3/4" x 2 3/8" x 7"	IPSF14	1.762-1.766	2.3764-2.3771
1 3/4" x 2 5/8" x 7"	IPSF14+2	1.762-1.766	2.6264-2.6271
2" x 2 5/8" x 8"	IPSF16	2.012-2.016	2.6264-2.6271
2" x 3" x 8"	IPSF16+3	2.012-2.016	3.0014-3.0021
2 1/4" x 3" x 9"	IPSF18	2.264-2.268	3.0014-3.0021
2-1/4 x 3-1/8 x 9"	IPSF18+1	2.264-2.268	3.1264-3.1272
2-1/2 x 3 x 10"	IPSF20-2	2.514-2.518	3.0014-3.0021
2-1/2 x 3-1/8 x 10"	IPSF20-1	2.514-2.518	3.1264-3.1271
2 1/2" x 3 1/4" x 10"	IPSF20	2.514-2.518	3.2514-3.2523
2 1/2" x 3 3/8" x 10"	IPSF20+1	2.514-2.518	3.3764-3.3773
2 3/4" x 3 1/2" x 11"	IPSF22-2	2.762-2.766	3.5014-3.5023
3" x 3 3/4" x 12"	IPSF24-2	3.014-3.018	3.7514-3.7523
3" x 4" x 12"	IPSF24	3.014-3.018	4.0014-4.0023
3-1/2" x 4-1/2" x 14"	IPSF28	3.516-3.520	4.5014-4.5023
4" x 5" x 16"	IPSF32	4.019-4.023	5.0016-5.0026

### BRASS BEARINGS

#### Tolerances

Brass Code	I/D	O/D
	mm	mm
MBSF25	25.08-25.18	40.026-40.042
MBSF30	30.08-30.18	45.026-45.042
MBSF35	35.08-35.18	50.026-50.042
MBSF40	40.08-40.18	55.032-55.051
MBSF45	45.08-45.18	65.032-65.051
MBSF50	50.08-50.18	70.032-70.051
MBSF55	55.08-55.18	75.032-75.051
MBSF60	60.08-60.18	80.032-80.051
MBSF65	65.08-65.18	85.037-85.059
MBSF70	70.08-70.18	90.037-90.059
MBSF75	75.08-75.18	95.037-95.059
MBSF80	80.10-80.20	100.037-100.059
MBSF85	85.10-85.20	105.037-105.059
MBSF90	90.10-90.20	110.037-110.059
MBSF95	95.10-95.20	115.037-115.059
MBSF100	100.10-100.20	125.043-125.068

	mm	inches
MIBSF20	20.08-20.18	1.2510-1.2516
MIBSF25	25.08-25.18	1.5010-1.5016
MIBSF30	30.08-30.18	1.7510-1.7516
MIBSF35	35.08-35.18	1.8762-1.8770
MIBSF40	40.08-40.18	2.1262-2.1270
MIBSF45	45.08-45.18	2.3764-2.3773
MIBSF50	50.08-50.18	2.6262-2.6270
MIBSF60	60.08-60.18	3.0014-3.0021

	inches	inches
IBSF06	0.753-0.757	1.2510-1.2516
IBSF08-2	1.003-1.007	1.2510-1.2516
IBSF08	1.003-1.007	1.5010-1.5016
IBSF09	1.128-1.132	1.6260-1.6266
IBSF10-2	1.253-1.257	1.5010-1.5016
IBSF10	1.253-1.257	1.7510-1.7516
IBSF10+2	1.253-1.257	2.0012-2.0020
IBSF12	1.503-1.507	2.0012-2.0020
IBSF14	1.753-1.757	2.3764-2.3771
IBSF14+2	1.753-1.757	2.6264-2.6271
IBSF16	2.003-2.007	2.6264-2.6271
IBSF16+3	2.003-2.007	3.0014-3.0021
IBSF18	2.253-2.257	3.0014-3.0021
IBSF18+1	2.253-2.257	3.1264-3.1271
IBSF20-2	2.503-2.507	3.0014-3.0021
IBSF20-1	2.503-2.507	3.1264-3.1271
IBSF20	2.503-2.507	3.2514-3.2523
IBSF20+1	2.503-2.507	3.3764-3.3773
IBSF22-2	2.754-2.758	3.5014-3.5023
IBSF24-2	3.004-3.008	3.7514-3.7523
IBSF24	3.004-3.008	4.0014-4.0023
IBSF28	3.504-3.508	4.5014-4.5023
IBSF32	4.004-4.008	5.0016-5.0026

### GRP BEARINGS

#### Tolerances

GRP Code	I/D	O/D
	mm	mm
MGSF25	25.08-25.18	40.026-40.042
MGSF30	30.08-30.18	45.026-45.042
MGSF35	35.08-35.18	50.026-50.042
MGSF40	40.08-40.18	55.032-55.051
MGSF45	45.08-45.18	65.032-65.051
MGSF50	50.08-50.18	70.032-70.051
MGSF60	60.08-60.18	80.032-80.051
MGSF70	70.08-70.18	90.037-90.059
MGSF80	80.10-80.20	100.037-100.059
MGSF90	90.10-90.20	110.037-110.059
MGSF100	100.10-100.20	125.043-125.068

### ALL RUBBER BEARINGS

Rubber Code	I/D	O/D
MRSFF22X29X75	22.08-22.18	as moulded
MRSFF22X36X75	22.08-22.18	as moulded
MRSFF25X34X55	25.08-25.18	as moulded
MRSFF25X36X100	25.08-25.18	as moulded
MRSFF25X40X100	25.08-25.18	as moulded
MRSFF25X40X120	25.08-25.18	as moulded
MRSFF30X40X100	30.08-30.18	as moulded
MRSFF30X40X120	30.08-30.18	as moulded

### Tolerances & Clearances

All surfaces have been machined to a tolerance. This is the difference between the upper and lower machining limits.

For a bearing to operate satisfactorily there must exist a clearance between shaft and bearing. These clearances must also take into account the amount of 'crush down' that occurs when a bearing is pressed into a housing. These are basic clearances for 'standard' conditions of temperature. Tolerances for Phenolic also take into account the amount of swell that will occur with this material once the bearings are submerged.

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