

Fraser general purpose bronze bearings are manufactured from continuous cast bronze, conforming to AS1565 grade C83600 (BS1400 LG2). Progressive sizes are shown in imperial and metric measure, indexed by the inside diameter.



Mechanical Properties

Maximum Operating Temperature	230°C
Maximum Unit Pressure Load	270MPa
Tensile Strength	270 – 340 MPa
Proof Stress 0.2%	100 – 140 MPa
Elongation	13 – 30%
Hardness Brinell	75 – 90 BHN
Coefficient of Friction	0.14 – 0.08
Thermal Coefficient of Expansion	19.6 × 10 ⁻⁶ per °C

Tolerances

	Imperial	Metric
Inside Diameter	– .0005	– 0.01
	+ .0015	+ 0.04
Outside Diameter	+ .002	+ 0.06
	+ .004	+ 0.10
Length	+ .010	+ 0.25
	– .010	– 0.25

Imperial

Part No.	I/D	O/D	Length	
FB1	5/16	7/16	1/2	
FB3			3/4	
FB4			1	
FB2			1 1/2	
FB10	3/8	1/2	3/4	
FB11			1	
FB13			1 1/2	
FB12			2	
FB19	7/16	9/16	3/4	
FB20			1	
FB22			1 1/2	
FB25			2	
FB36			5/8	1
FB27			1 1/2	2
FB29			2	1
FB39			11/16	1
FB30			1 1/2	2
FB32			2	1

Part No.	I/D	O/D	Length			
FB100	1/2	9/16	1 1/2			
FB101		5/8	3/4			
FB102		1	1			
FB103		1 1/4	1			
FB104		1 1/2	1			
FB106		2	1			
FB107		11/16	1			
FB110		1 1/2	1			
FB112		2	1			
FB99		3/4	3/4	1		
FB113		1	1			
FB115		1 1/2	1			
FB116	1 3/4	1				
FB117	2	1				
FB119	2 1/2	1				
FB120	7/8	1 1/2	2			
FB121	2	1				
FB122	1	2	1			
FB200	9/16	11/16	1			
FB203			1 1/2			
FB206			1 3/4			
FB207			2			
FB210			3/4	1		
FB214			1 1/2	1		
FB216			1 3/4	1		
FB217			2	1		
FB219			2 1/4	1		
FB220			2 1/2	1		
FB236			13/16	1		
FB222			1 1/2	1		
FB224	2	1				
FB237	7/8	1				
FB227	1 1/2	1				
FB228	2	1				
FB231	1	1 1/2				
FB232	2	1				
FB301	5/8	11/16	1 1/2			
FB302			2			
FB303			3/4	3/4		
FB304			1	1		
FB305			1 1/4	1		
FB307			1 1/2	1		
FB308			1 3/4	1		
FB309			2	1		
FB310			2 1/4	1		
FB311			2 1/2	1		
FB312			3	1		
FB313			13/16	1		
FB315	1 1/2	1				
FB317	2	1				
FB319	2 1/2	1				
FB321	7/8	3/4				
FB322	1	1				
FB324	1 1/4	1				
FB325	1 1/2	1				
FB326	1 3/4	1				
FB328	2	1				
FB329	2 1/4	1				
FB330	2 1/2	1				
FB331	3	1				
FB334	1	1 1/4				
FB335	2	1				
FB337	2 1/2	1				
FB400	11/16	13/16	1			
FB401			1 1/2			
FB403			2			
FB406			7/8	1		
FB409			2	1		
FB412			15/16	1		
FB413			1 1/2	1		
FB415			2	1		
FB418			1	2		
FB500			3/4	13/16	1 1/2	
FB501					7/8	3/4
FB502					1	1
FB504	1 1/4	1				

Part No.	I/D	O/D	Length		
FB505	3/4	7/8	1 1/2		
FB507			2		
FB510			2 1/2		
FB511			15/16	1	
FB515			1 1/2	1	
FB518			2	1	
FB519			2 1/4	1	
FB520			2 1/2	1	
FB490			1	3/4	
FB522			1	1	
FB523			1 1/4	1	
FB524			1 1/2	1	
FB525	1 3/4	1			
FB526	2	1			
FB528	2 1/4	1			
FB529	2 1/2	1			
FB530	3	1			
FB531	1 1/16	2			
FB532	2 1/2	1			
FB533	1 1/8	1 1/2			
FB534	2	1			
FB536	2 1/2	1			
FB537	3	1			
FB538	1 1/4	2 1/2	1		
FB600	13/16	15/16	1		
FB602			1 1/2		
FB603			2		
FB605			1	1 1/2	
FB606			2	1	
FB607			2 1/2	1	
FB608			1 1/16	2	
FB610			2 1/2	1	
FB612			3	1	
FB700			7/8	1	1
FB702					1 1/4
FB703					1 1/2
FB705	2				
FB707	2 1/2				
FB708	3				
FB709	1 1/16	1			
FB711	1 1/2	1			
FB713	2	1			
FB715	2 1/2	1			
FB717	1 1/8	1 1/4			
FB718	1 1/2	1			
FB720	1 1/8	2			
FB721	2 1/4	1			
FB722	2 1/2	1			
FB723	3	1			
FB725	1 1/4	1 1/2			
FB726	2	1			
FB728	2 1/2	1			
FB729	3	1			
FB730	1 3/8	3			
FB731	15/16	1 1/16	1 1/2		
FB732			2		
FB733			2 1/2		
FB734			1 1/8	1 1/4	
FB735			2 1/4	1	
FB736			3	1	
FB738			1 3/16	2	
FB800			1	1 1/16	1 1/2
FB801	1 1/8	1			
FB802	1 1/4	1			
FB803	1 1/2	1			
FB805	2	1			
FB806	2 1/2	1			
FB807	3	1			
FB808	1 1/2	1			
FB809	2	1			
FB810	2 1/2	1			

(continued overleaf)



Imperial (continued)

Part No.	I/D	O/D	Length		
FB811	1	1¼	1		
FB812			1⅛		
FB813			1¼		
FB814			1½		
FB815			1¾		
FB816			2		
FB818			2½		
FB820			3		
FB821			3½		
FB822			4		
FB827			1⅜	1½	
FB823				2	
FB824				2½	
FB825				3	
FB900			1⅛	1¼	1½
FB901	2				
FB902	2½				
FB903	3				
FB904	1⅜	2			
FB906		3			
FB907		3½			
FB908	4				
FB909	1½	3			
FB1000	1¼	1⅜			1½
FB1001			3		
FB912			1½	1	
FB914				1½	
FB1002				1¾	
FB1003				2	
FB1004			2½		
FB1005			3		
FB1007			3½		
FB1008			4		
FB1009	1⅝	1¾			
FB1010	1⅜		2		
FB1011			3		
FB910			4		
FB1012			1¾	4	
FB1013	1½	1⅝	2		
FB996			1¾	1½	
FB998			2		
FB1014			2½		
FB1015			3		
FB1016			1¾	3½	
FB1017				4	
FB1020				2	2½
FB1021			3		
FB1022			3½		
FB1023			4		
FB1030			1¾		2½
FB1031					3
FB1032					3½
FB1033					4
FB1018	2⅛	4			
FB1036		2¼			2¼
FB1037	3				
FB1038	3½				
FB1039	2½	4			
FB1040	2	2¼			2½
FB1041			3		
FB1019			3½		
FB1050			2½	2½	
FB1051			3		
FB1052			3½		
FB1053			4		
FB1060	2¼	2¾	2½		
FB1061			3		
FB1062			3½		
FB1063			4		
FB1070	2½	3	2½		
FB1071			3		
FB1072			3½		
FB1073			4		

Metric

Part No.	I/D	O/D	Length
FBM081010	08	10	10
FBM081020			20
FBM081030			30
FBM081040			40
FBM081210			08
FBM081220	20		
FBM081230	30		
FBM081240	40		
FBM101220	10	12	
FBM101230			30
FBM101240			40
FBM101620	10	16	20
FBM101630			30
FBM101640			40
FBM101650		50	
FBM121620	12	16	20
FBM121630			30
FBM121640			40
FBM121650			50
FBM122020	12	20	20
FBM122030			30
FBM122040			40
FBM122050			50
FBM162020	16	20	20
FBM162030			30
FBM162040			40
FBM162050			50
FBM162060			60
FBM162430			16
FBM162440	40		
FBM162450	50		
FBM162460	60		
FBM162480	80		
FBM202430	20	24	30
FBM202440			40
FBM202450			50
FBM202460			60
FBM202480		80	
FBM203030	20	30	30
FBM203040			40
FBM203050			50
FBM203060			60
FBM203080		80	
FBM253030	25	30	30
FBM253040			40
FBM253050			50
FBM253060			60
FBM253080			80
FBM2530100			100
FBM253530	25	35	30
FBM253540			40
FBM253550			50
FBM253560			60
FBM253580			80
FBM2535100			100
FBM303530	30	35	30
FBM303540			40
FBM303550			50
FBM303560			60
FBM303580			80
FBM3035100			100
FBM304030	30	40	30
FBM304040			40
FBM304050			50
FBM304060			60
FBM304080			80
FBM3040100			100
FBM354040	35	40	40
FBM354050			50
FBM354060			60

Part No.	I/D	O/D	Length
FBM354080	35	40	80
FBM3540100			100
FBM354540	35	45	40
FBM354550			50
FBM354560			60
FBM354580			80
FBM3545100			100
FBM404540	40	45	40
FBM404550			50
FBM404560			60
FBM404580			80
FBM4045100			100
FBM405040	40	50	40
FBM405050			50
FBM405060			60
FBM405080			80
FBM4050100			100
FBM455550	45	55	50
FBM455560			60
FBM455580			80
FBM4555100			100
FBM506050	50	60	50
FBM506060			60
FBM506080			80
FBM5060100			100

