

A W Fraser

Continuous Cast Bronze Bearings

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	1
FB27			1 1/2
FB29			2
FB39			1
FB30	11/16	1 1/2	1 1/2
FB32			2

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

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

(continued overleaf)



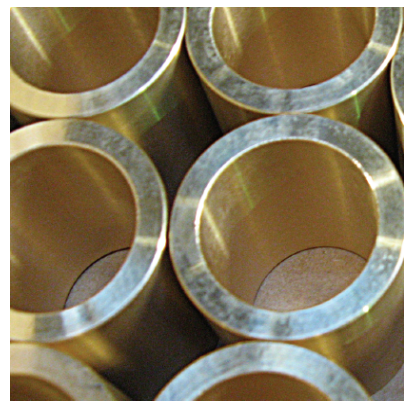
Imperial *(continued)*

Part No.	I/D	O/D	Length		
FB811	1	1 1/4	1		
FB812			1 1/8		
FB813			1 1/4		
FB814			1 1/2		
FB815			1 3/4		
FB816			2		
FB818			2 1/2		
FB820			3		
FB821			3 1/2		
FB822			4		
FB827			1 3/8	1 1/2	
FB823				2	
FB824				2 1/2	
FB825				3	
FB900			1 1/8	1 1/4	1 1/2
FB901	2				
FB902	2 1/2				
FB903	3				
FB904	1 3/8	2			
FB906		3			
FB907		3 1/2			
FB908	1 1/2	4			
FB909		3			
FB1000	1 1/4	1 3/8	1 1/2		
FB1001			3		
FB912			1 1/2	1	
FB914				1 1/2	
FB1002				1 3/4	
FB1003				2	
FB1004				2 1/2	
FB1005				3	
FB1007				3 1/2	
FB1008				4	
FB1009	1 5/8	1 3/4			
FB1010	1 3/8		2		
FB1011			3		
FB910			4		
FB1012			1 3/4	4	
FB1013	1 1/2	1 5/8	2		
FB996			1 3/4	1 1/2	
FB998			2		
FB1014			2 1/2		
FB1015			3		
FB1016			1 3/4	3 1/2	
FB1017				4	
FB1020				2	2 1/2
FB1021			3		
FB1022			3 1/2		
FB1023			4		
FB1030			1 3/4		2 1/2
FB1031					3
FB1032	3 1/2				
FB1033	4				
FB1018	2 1/8	4			
FB1036		2 1/4			2 1/4
FB1037	3				
FB1038	3 1/2				
FB1039	2 1/2	4			
FB1040	2	2 1/4			2 1/2
FB1041			3		
FB1019			3 1/2		
FB1050			2 1/2	2 1/2	
FB1051				3	
FB1052				3 1/2	
FB1053				4	
FB1060	2 1/4	2 3/4	2 1/2		
FB1061			3		
FB1062			3 1/2		
FB1063			4		
FB1070	2 1/2	3	2 1/2		
FB1071			3		
FB1072			3 1/2		
FB1073			4		

Metric

Part No.	I/D	O/D	Length
FBM081010	08	10	10
FBM081020			20
FBM081030			30
FBM081040			40
FBM081210	08	12	10
FBM081220			20
FBM081230			30
FBM081240			40
FBM101220	10	12	20
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



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