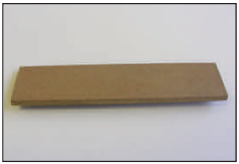
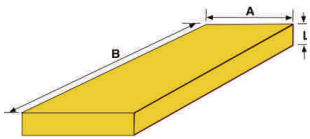




DISCOUNTS	
1 - 9	List Price
10-24	-22%
25-49	-38%
50-99	-44%
100+	-52%

PART NUMBER	A (Width)		B (Width)		Stock Thickness	PRICE EACH
	Nominal	Min.	Nominal	Min.		
HPCQAP010450	25.4	23	108	105.6	12.7	**£67.15**
HPCQAP050825	127	127	203	204	6.35	**£109.04**
HPCQAP050838					9.50	**£235.74**
HPCQAP050850					12.7	**£234.90**
HPCQAP061225	152.4	152.4	305	304.8	6.35	**£226.20**
HPCQAP061238					9.50	**£435.23**
HPCQAP061250					12.7	**£582.32**
HPCQAP101025	254	254	254	254	6.35	**£226.20**
HPCQAP101050					12.7	**£686.00**

Lubrication

Standard OILITE® bearings are impregnated with a highly refined mineral oil to ISO VG (SAE 30) having a high viscosity index and containing anti-oxidant, anti-rust and defoamant additives.

A replenishment of oil should be carried out after 1000 hours of use or yearly. These intervals can be extended for bearings with relatively thick walls and shortened for low porosity bearings. Bearings running submerged in oil or in oil-splash will not require replenishment.

A wide range of operating temperatures are available. Please contact out Technical Department for further information.

To prevent possible seizures with stainless steel or hard-chromium plated shafts, an addition of molybdenum disulphide to the impregnation oil must be specified.

Any particular application thought to be outside standard conditions should be referred to our Technical Department.

However, here are some basic rules:

1. Low viscosity oil for low temperatures, high speeds or light loads
2. High viscosity oil for high temperatures, low speeds or heavy loads
3. High viscosity index oil for wide variations in operating temperatures
4. Oxidation stable oils for long-period usage
5. Oil with 'oiliness' additives for boundary conditions
6. Oil of lesser 'oiliness' for full film (hydrodynamic) conditions
7. Oil with Extreme Pressure (E.P.) additives for very heavy or shock loads

Fitting

Before fitting make sure that all sharp edges are removed from the housing and mating shaft. The bearing must be free from grit and dust. Wash in oil if storage conditions are in doubt and re-oil if held in stock for more than a year or if stored in contact with an absorbent material.

Always use steady pressure to insert the bearing. Never use hammer blows. Shafts should ideally be hardened to approximately HRC 60 and ground to a surface roughness of Ra = 0.25 μm.

Imperial

The standard inch range of OILITE® bearings is made to fit H8 housings and majority will give H8 fitted bores.

Metric

The standard metric range of OILITE® bearings to ISO 2795 is made to G7/s7 limits of tolerance. These bearings when fitted into a rigid H7 housing, using a m5 fitting pin, will give a H7 bore, which when run on a f7 shaft will give good performance.

Note: In extreme circumstances a combination of tolerances can make insertion of the fitting pin difficult. For advice on the recommended course of action in such cases contact our Technical Department.

Storage

OILITE® bearings can be stored for considerable periods without deterioration or loss of oil if kept in a metal or other non-absorbent container, at room temperature. Proximity to heat could cause oil loss by sweating, in which case re-oiling is necessary before fitting.

Re-oiling

After machining of the bearing, or following oil loss during storage, immerse in high quality mineral oil to ISO VG 68 or ISO VG 150 (SAE 30 or SAE 40) at 60ºC to 70º for 10 to 15 minutes and then cool in cold oil.

Machining

A specialised Machine Shop is available and would be pleased to quote for your specific requirements.

Please contact our Technical Department.

Metric caution

IN THE EU THERE ARE AT LEAST THREE 'STANDARDS' COVERING DIMENSIONS AND TOLERANCES OF METRIC BEARINGS

All the metric (ISO) bearings in this catalogue are manufactured to the tolerances set out in ISO 2795 - Plain Bearings from Sintered Material.

ISO 2795 is the standard used by the BSI for this type of bearings; it is widely used in other European countries.

Bearings conforming to other metric standards used in the EU are available in Britain; bearings made to these other standards may not suit the ISO 2795 fitting requirements and vice-versa. Incompatibility may result in bearing seizure or much reduced life, therefore great care must be taken in selecting matched bearing, housing, fitting-pin and shaft sizes. Bearings can be manufactured to meet many of these other standards; therefore, please contact our Technical Department for advice.

Please note that whilst we strive to increase the wide range of stock sizes the right to remove sizes from the list or later tolerances are retained.

Material specifications

		Mandatory Values								Informative Values		
		Chemical Composition				Mechanical & Physical Properties						
Materials	MB Grade	(4) C Total %	Cu %	Fe %	Sn %	Total Other Elements Max. %	(1) Open Porosity P Min. %	(1) Oil Content Min. %	(2) Radial Crushing Strength K Min. N/mm^2	(1) Density P Nominal g/cm^3	Static Load Max N/mm^2	(3) PV factor N/mm^2 x m/s
Oilite®	MB01-1	<0.3	Balance		9 to 11	2	27	24	120	6.0	35	1.8
	MB01-2	<0.3	Balance		9 to 11	2	22	20	160	6.4	50	1.8

MB01-1 Applicable to Bars, Plate Material and Imperial Bearings

MB01-2 Applicable to Metric Bearings.

Other bearing materials for special applications are also available

NOTES:
1. Density, oil content and open porosity determined according to BS5600 Pt 3 Section 3.2 1988
2. Radial crushing strength, according to BS ENISO 2739:- 1998
3. PV factor = Pressure (N/mm^2) x bearing surface velocity (m/s) where pressure = load (N) ÷ projected area (d x L) and d = inside diameter (mm).
4. Bars and Plates may contain up to 1% C.

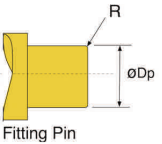
Nearest equivalent specifications

			UK BS5600	France	Germany	U.S.A.		
Materials	MB Grade	ISO 5755/1 1987	Part 5 Section 5.1 1988	NF ISO 5755/1 A 95-771-1	DIN 30 910 PART 3	M.P.I.F. STAND. 35	S.A.E	A.S.T.M.
Oilite® Bronze	MB01-1	P4011Z	P4011Z	FU-E10-60		CT-1000-K19	840	B438 Grd 1 Type 2
	MB01-2	P4012Z	P4012Z	FU-E10-64	SintA50	CT-1000-K26	841	

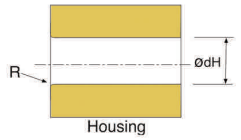
Lubricants and additives

The standard stock range of Oilite® bearings is impregnated with a mineral oil SAE 30 viscosity; all machined Oilite® bearings and plates are supplied fully impregnated after machining. A wide range of lubricants is available to meet specific requirements within a temperature range of -60° C to 200° C, lubricant additives are also available to impart anti-wear properties in marginal lubrication conditions such as stainless steel shaft applications.

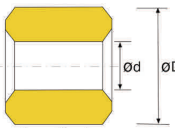
Imperial plain bushes - fitting data



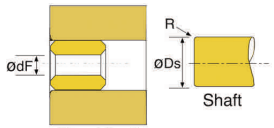
Fitting Pin



Housing



Free Bush



Fitted Bush

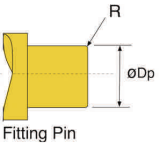
Shaft

PART NUMBER	Basic Sizes		Ø dH" (H8)		Ø Dp"		Ø dF"			Ø Ds"(f7) (except *)	
	Ø d	Ø D	Min.	Max.	Min.	Max.	Min.	Max.	Tol.	Min.	Max.
HPCQI0305	3/16	5/16	0.3125	0.3134	0.1877	0.1879	0.1876	0.1866		0.1866	0.1871
HPCQI0406	1/4	3/8	0.3750	0.3759	0.2502	0.2504	0.2500	0.2507	H8	0.2489	0.2495
HPCQI0407	1/4	7/16	0.4375	0.4385	0.2498	0.2500	0.2496	0.2506		0.2484*	0.2490* *e7
HPCQI0408	1/4	1/2	0.5000	0.5010	0.2502	0.2504	0.2500	0.2504	H8	0.2489	0.2495
HPCQI0507	5/16	7/16	0.4375	0.4385	0.3127	0.3129	0.3125	0.3133	H8	0.3114	0.3120
HPCQI0508	5/16	1/2	0.5000	0.5010	0.3127	0.3129	0.3125	0.3131	H8	0.3114	0.3120
HPCQI0608	3/8	1/2	0.5000	0.5010	0.3752	0.3754	0.3750	0.3754	H8	0.3739	0.3745
HPCQI0610	3/8	5/8	0.6250	0.6260	0.3752	0.3754	0.3750	0.3759	H8	0.3739	0.3745
HPCQI0709	7/16	9/16	0.5625	0.5635	0.4377	0.4379	0.4375	0.4385	H8	0.4362	0.4369
HPCQI0711	7/16	11/16	0.6875	0.6885	0.4377	0.4379	0.4375	0.4385	H8	0.4362	0.4369
HPCQI0810	1/2	5/8	0.6250	0.6260	0.5002	0.5005	0.5000	0.5009	H8	0.4987	0.4994
HPCQI0811	1/2	11/16	0.6875	0.6885	0.5002	0.5005	0.5000	0.5012		0.4987	0.4994
HPCQI0812	1/2	3/4	0.7500	0.7512	0.5002	0.5005	0.5000	0.5010	H8	0.4987	0.4994
HPCQI0911	9/16	11/16	0.6875	0.6885	0.5625	0.5628	0.5625	0.5634	H8	0.5612	0.5619
HPCQI0912	9/16	3/4	0.7500	0.7512	0.5635	0.5638	0.5633	0.5644		0.5618*	0.5625* *h7
HPCQI1012	5/8	3/4	0.7500	0.7512	0.6252	0.6255	0.6250	0.6263		0.6237	0.6244
HPCQI1013	5/8	13/16	0.8125	0.8137	0.6252	0.6255	0.6250	0.6269		0.6237	0.6244
HPCQI1014	5/8	7/8	0.8750	0.8762	0.6252	0.6255	0.6250	0.6259	H8	0.6237	0.6244
HPCQI1115	11/16	15/16	0.9375	0.9387	0.6877	0.6880	0.6875	0.6880	H8	0.6892	0.6869

Imperial plain bushes - fitting data

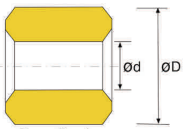
PART NUMBER	Basic Sizes		Ø dH" (H8)		Ø Dp"		Ø dF"			Ø Ds"(f7) (except*)	
	Ø d	Ø D	Min.	Max.	Min.	Max.	Min.	Max.	Tol.	Min.	Max.
HPCQI1214	3/4	7/8	0.8750	0.8762	0.7502	0.7505	0.7500	0.7513		0.7484	0.7492
HPCQI1215	3/4	15/16	0.9375	0.9387	0.7516	0.7519	0.7514	0.7531		0.7499*	0.7508* *k7
HPCQI1216	3/4	1	1.0000	1.0012	0.7502	0.7505	0.7500	0.7512	H8	0.7484	0.7492
HPCQI1218	3/4	1 1/8	1.1250	1.1262	0.7502	0.7505	0.7500	0.7512		0.7484	0.7492
HPCQI1220	3/4	1 1/4	1.2000	1.2516	0.7502	0.7505	0.7500	0.7520		0.7484	0.7492
HPCQI1416	7/8	1	1.0000	1.0012	0.8752	0.8755	0.8750	0.8761	H8	0.8737	0.8744
HPCQI1418	7/8	1 1/8	1.1250	1.1262	0.8752	0.8755	0.8750	0.8761	H8	0.8737	0.8744
HPCQI1618	1	1 1/8	1.1250	1.1262	1.0002	1.0006	1.0000	1.0012	H8	0.9984	0.9992
HPCQI1620	1	1 1/4	1.1250	1.2516	1.0002	1.0006	1.0000	1.0012	H8	0.9984	0.9992
HPCQI1624	1	1 1/2	1.5000	1.5016	1.0002	1.0006	1.0000	1.0016		0.9984	0.9992
HPCQI1822	1 1/8	1 3/8	1.3750	1.3766	1.1252	1.1256	1.1250	1.1265		1.1234	1.1244
HPCQI2024	1 1/4	1 1/2	1.5000	1.5016	1.2502	1.2506	1.2500	1.2514	H8	1.2480	1.2490
HPCQI2026	1 1/4	1 5/8	1.6250	1.6266	1.2502	1.2506	1.2500	1.2526		1.2480	1.2490
HPCQI2226	1 3/8	1 5/8	1.6250	1.6266	1.3752	1.3756	1.3750	1.3765	H8	1.3730	1.3740
HPCQI2228	1 3/8	1 3/4	1.7500	1.7516	1.3752	1.3756	1.3750	1.3765	H8	1.3730	1.3740
HPCQI2428	1 1/2	1 3/4	1.7500	1.7516	1.5002	1.5006	1.5000	1.5014	H8	1.4980	1.4990
HPCQI2430	1 1/2	1 7/8	1.8750	1.8766	1.5002	1.5006	1.5000	1.5016	H8	1.4980	1.4990
HPCQI2432	1 1/2	2	2.0000	2.0018	1.5002	1.5006	1.5000	1.5025		1.4980	1.4990
HPCQI2633	1 5/8	2 1/16	2.0625	2.0643	1.6252	1.6258	1.6250	1.6274		1.6230	1.6240
HPCQI2832	1 3/4	2	2.0000	2.0018	1.7502	1.7508	1.7500	1.7515	H8	1.7480	1.7490
HPCQI2836	1 3/4	2 1/4	2.2500	2.2518	1.7502	1.7508	1.7500	1.7515	H8	1.7480	1.7490
HPCQI3236	2	2 1/4	2.2500	2.2518	2.0002	2.0008	2.0000	2.0015	H8	1.9976	1.9988
HPCQI3240	2	2 1/2	2.2500	2.5018	2.0002	2.0008	2.0000	2.0011	H8	1.9976	1.9988
HPCQI3642	2 1/4	2 5/8	2.6250	2.6268	2.2502	2.2508	2.2500	2.2536		2.2476	2.2488
HPCQI3644	2 1/4	2 3/4	2.7500	2.7518	2.2502	2.2508	2.2500	2.2512	H8	2.2476	2.2488
HPCQI4048	2 1/2	3	3.0000	3.0018	2.5002	2.5008	2.5000	2.5013	H8	2.4976	2.4988
HPCQI4856	3	3 1/2	3.4980	3.5003	2.9957	2.9967	2.9955	2.9986		2.9922*	2.9940* *c8

Metric plain bushes - fitting data

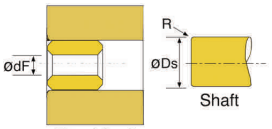


Fitting Pin

Housing



Free Bush



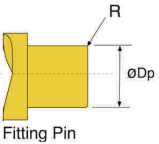
Fitted Bush

PART NUMBER	Basic Sizes		Ø dH (H7)		Ø Dp (m5)		Ø dF (H7)		Ø Ds (f7)	
	Ø d	Ø D	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
HPCQM0205	2	5	5.000	5.012	2.002	2.006	2.000	2.010	1.984	1.994
HPCQM0305	3	5	5.000	5.012	3.002	3.006	3.000	3.010	2.984	2.994
HPCQM0306	3	6	6.000	6.012	3.002	3.006	3.000	3.010	2.984	2.994
HPCQM0407	4	7	7.000	7.015	4.004	4.009	4.000	4.012	3.978	3.990
HPCQM0408	4	8	8.000	8.015	4.004	4.009	4.000	4.012	3.978	3.990
HPCQM0508	5	8	8.000	8.015	5.004	5.009	5.000	5.012	4.978	4.990
HPCQM0509	5	9	9.000	9.015	5.004	5.009	5.000	5.012	4.978	4.990
HPCQM0609	6	9	9.000	9.015	6.004	6.009	6.000	6.012	5.978	5.990
HPCQM0610	6	10	10.000	10.015	6.004	6.009	6.000	6.012	5.978	5.990
HPCQM0710	7	10	10.000	10.015	7.005	7.012	7.000	7.015	6.792	6.987
HPCQM0711	7	11	11.000	11.018	7.005	7.012	7.000	7.015	6.972	6.987
HPCQM0811	8	11	11.000	11.018	8.006	8.012	8.000	8.015	7.972	7.987
HPCQM0812	8	12	12.000	12.018	8.006	8.012	8.000	8.015	7.972	7.987
HPCQM0814	8	14	14.000	14.018	8.006	8.012	8.000	8.015	7.972	7.987
HPCQM0912	9	12	12.000	12.018	9.006	9.012	9.000	9.015	8.972	8.987
HPCQM0914	9	14	14.000	14.018	9.006	9.012	9.000	9.015	8.972	8.987
HPCQM1013	10	13	13.000	13.018	10.006	10.012	10.000	10.015	9.972	9.987
HPCQM1014	10	14	14.000	14.018	10.006	10.012	10.000	10.015	9.972	9.987

Metric plain bushes - fitting data

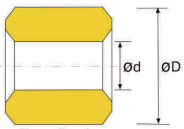
PART NUMBER	Basic Sizes		Ø dH (H7)		Ø Dp (m5)		Ø dF (H7)		Ø Ds (f7)	
	Ø d	Ø D	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
HPCQM1015	10	15	15.000	15.018	10.006	10.012	10.000	10.015	9.972	9.987
HPCQM1016	10	16	16.000	16.018	10.006	10.012	10.000	10.015	9.972	9.987
HPCQM1215	12	15	15.000	15.018	12.007	12.015	12.000	12.018	11.966	11.984
HPCQM1216	12	16	16.000	16.018	12.007	12.015	12.000	12.018	11.966	11.984
HPCQM1218	12	18	18.000	18.018	12.007	12.015	12.000	12.018	11.966	11.984
HPCQM1418	14	18	18.000	18.018	14.007	14.015	14.000	14.018	13.966	13.984
HPCQM1420	14	20	20.000	20.021	14.007	14.015	14.000	14.018	13.966	13.984
HPCQM1519	15	19	19.000	19.021	15.007	15.015	15.000	15.018	14.966	14.984
HPCQM1521	15	21	21.000	21.021	15.007	15.015	15.000	15.018	14.966	14.984
HPCQM1620	16	20	22.000	20.021	16.007	16.015	16.000	16.018	15.966	15.984
HPCQM1622	16	22	22.000	22.021	16.007	16.015	16.000	16.018	15.966	15.984
HPCQM1822	18	22	22.000	22.021	18.007	18.015	18.000	18.018	17.966	17.984
HPCQM1824	18	24	24.000	24.021	18.007	18.015	18.000	18.018	17.966	17.984
HPCQM1825	18	25	25.000	25.021	18.007	18.015	18.000	18.018	17.966	17.984
HPCQM2024	20	24	24.000	24.021	20.008	20.017	20.000	20.021	19.959	19.980
HPCQM2025	20	25	25.000	25.021	20.008	20.017	20.000	20.021	19.959	19.980
HPCQM2026	20	26	26.000	26.021	20.008	20.017	20.000	20.021	19.959	19.980
HPCQM2028	20	28	28.000	28.021	20.008	20.017	20.000	20.021	19.959	19.980
HPCQM2227	22	27	27.000	27.021	22.008	22.017	22.000	22.021	21.959	21.980
HPCQM2228	22	28	28.000	28.021	22.008	22.017	22.000	22.021	21.959	21.980
HPCQM2232	22	32	32.000	32.025	22.008	22.017	22.000	22.021	21.959	21.980
HPCQM2530	25	30	30.000	30.021	25.008	25.017	25.000	25.021	24.959	24.980
HPCQM2532	25	32	32.000	32.025	25.008	25.017	25.000	25.021	24.959	24.980
HPCQM2535	25	35	35.000	35.025	25.008	25.017	25.000	25.021	24.959	24.980
HPCQM2836	28	36	36.000	36.025	28.008	28.017	28.000	28.021	27.959	27.980
HPCQM3035	30	35	35.000	35.025	30.008	30.017	30.000	30.021	29.595	29.980
HPCQM3038	30	38	38.000	38.025	30.008	30.017	30.000	30.021	29.959	29.980
HPCQM3040	30	40	40.000	40.025	30.008	30.017	30.000	30.021	29.959	29.980

Metric plain bushes - fitting data

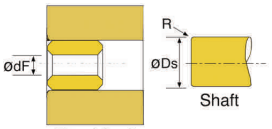


Fitting Pin

Housing



Free Bush



Fitted Bush

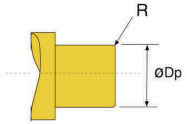
PART NUMBER	Basic Sizes		Ø dH (H7)		Ø Dp (m5)		Ø dF (H7)		Ø Ds (f7)	
	Ø d	Ø D	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
HPCQM3238	32	38	38.000	38.025	32.009	32.020	32.000	32.025	31.950	31.975
HPCQM3240	32	40	40.000	40.025	32.009	32.020	32.000	32.025	31.950	31.975
HPCQM3541	35	41	41.000	41.025	35.009	35.020	35.000	35.025	34.950	34.975
HPCQM3544	35	44	44.000	44.025	35.009	35.020	35.000	35.025	34.950	34.975
HPCQM3545	35	45	45.000	45.025	35.009	35.020	35.000	35.025	34.950	34.975
HPCQM3642	36	42	42.000	42.025	36.009	36.020	36.000	36.025	35.950	35.975
HPCQM3645	36	45	45.000	45.025	36.009	36.020	36.000	36.025	35.950	35.975
HPCQM3844	38	44	44.000	44.025	38.009	38.020	38.000	38.025	37.950	37.975
HPCQM3848	38	48	48.000	48.025	38.009	38.020	38.000	38.025	37.950	37.975
HPCQM4046	40	46	46.000	46.025	40.009	40.020	40.000	40.025	39.950	39.975
HPCQM4050	40	50	50.000	50.025	40.009	40.020	40.000	40.025	39.950	39.975
HPCQM4248	42	48	48.000	48.025	42.009	42.020	42.000	42.025	41.950	41.975
HPCQM4252	42	52	52.000	52.030	42.009	42.020	42.000	42.039	41.950	41.975
HPCQM4551	45	51	51.000	51.030	45.009	45.020	45.000	45.039	41.950	41.975
HPCQM4555	45	55	55.000	55.030	45.009	45.020	45.000	45.039	44.950	44.975
HPCQM4556	45	56	56.000	56.030	45.009	45.020	45.000	45.039	44.950	44.975
HPCQM4855	48	55	55.000	55.030	48.009	48.020	48.000	48.039	47.950	47.975
HPCQM4858	48	58	58.000	58.030	48.009	48.020	48.000	48.039	47.950	47.975

Metric plain bushes - fitting data

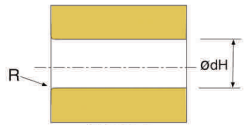
PART NUMBER	Basic Sizes		Ø dH (H7)		Ø Dp (m5)		Ø dF (H7)		Ø Ds (f7)	
	Ø d	Ø D	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
HPCQM5060	50	60	60.000	60.030	50.009	50.020	50.000	50.039	49.950	49.975
HPCQM5563	55	63	63.000	63.030	55.010	55.024	55.000	55.046	54.940	54.970
HPCQM5565	55	65	65.000	65.030	55.010	55.024	55.000	55.046	54.940	54.970
HPCQM6068	60	68	68.000	68.030	60.010	60.024	60.000	60.046	59.940	59.970
HPCQM6070	60	70	70.000	70.030	60.010	60.024	60.000	60.046	59.940	59.970
HPCQM6072	60	72	72.000	72.030	60.010	60.024	60.000	60.046	59.940	59.970
HPCQM6370	63	70	70.000	70.030	63.010	63.024	63.000	63.046	62.940	62.970

'Never Knowingly Outpriced'

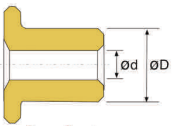
Imperial flanged bushes - fitting data



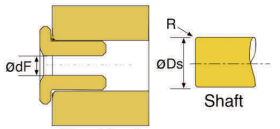
Fitting Pin



Housing



Free Bush



Fitted Bush

PART NUMBER	Basic Sizes"		Ø dH" (H8)		Ø" Dp		Ø" dF			Ø" Ds (f7) (except *)	
	Ø d	Ø D	Min.	Max.	Min.	Max.	Min.	Max.	Tol.	Min.	Max.
HPCQFI0305	3/16	5/16	0.3125	0.3134	0.1877	0.1879	0.1875	0.1883	H8	0.1866	0.1871
HPCQFI0406	1/4	3/8	0.3750	0.3759	0.2502	0.2504	0.2500	0.2504	H8	0.2489	0.2495
HPCQFI0508	5/16	1/2	0.5000	0.5010	0.3127	0.3129	0.3125	0.3127	H8	0.3114	0.3120
HPCQFI0509	5/16	9/16	0.5625	0.5635	0.3116	0.3118	0.3114	0.3121		0.3100*	0.3109* *d8
HPCQFI0608	3/8	1/2	0.5000	0.5010	0.3752	0.3754	0.3750	0.3756	H8	0.3739	0.3745
HPCQFI0609	3/8	9/16	0.5625	0.5635	0.3744	0.3746	0.3742	0.3748		0.3739*	0.3745* *d8
HPCQFI0610	3/8	5/8	0.6250	0.6260	0.3752	0.3754	0.3750	0.3758	H8	0.3739	0.3745
HPCQFI0709	7/16	9/16	0.5625	0.5635	0.4390	0.4392	0.4388	0.4401		0.4376*	0.4383* *k7
HPCQFI0810	1/2	5/8	0.6250	0.6260	0.4997	0.4999	0.4995	0.5001	J8	0.4981*	0.4988* *e7
HPCQFI0812	1/2	3/4	0.7500	0.7512	0.5002	0.5005	0.5000	0.5009	H8	0.4987	0.4994
HPCQFI1012	5/8	3/4	0.7500	0.7512	0.6266	0.6269	0.6264	0.6275		0.6251*	0.6258* *k7
HPCQFI1014	5/8	7/8	0.8750	0.8762	0.6252	0.6255	0.6250	0.6259	H8	0.6237	0.6244
HPCQFI1216	3/4	1	1.0000	1.0012	0.7502	0.7505	0.7500	0.7512	H8	0.7484	0.7492
HPCQFI1416	7/16	1	1.0000	1.0012	0.8752	0.8755	0.8750	0.8761	H8	0.8737	0.8744
HPCQFI1418	7/16	1 1/8	1.1250	1.1262	0.8752	0.8755	0.8750	0.8761	H8	0.8737	0.8744
HPCQFI1620	1	1 1/4	1.2500	1.2516	1.0007	1.0010	1.0050	1.0017		0.9993*	1.0000* *h7
HPCQFI1822	1 1/8	1 3/8	1.3750	1.3766	1.1252	1.1256	1.1250	1.1262	H8	1.1234	1.1244
HPCQFI2024	1 1/4	1 1/2	1.5000	1.5016	1.2502	1.2506	1.2500	1.2514	H8	1.2480	1.2490

Imperial flanged bushes - fitting data

PART NUMBER	Basic Sizes"		Ø dH" (H8)		Ø" Dp		Ø" dF			Ø" Ds (f7) (except *)	
	Ø d	Ø D	Min.	Max.	Min.	Max.	Min.	Max.	Tol.	Min.	Max.
HPCQFI2026	1 1/4	1 5/8	1.6250	1.6266	1.2502	1.2506	1.2500	1.2515	H8	1.2480	1.2490
HPCQFI2226	1 3/8	1 5/8	1.6250	1.6266	1.3740	1.3744	1.3738	1.3752		1.3720*	1.3730* *e7
HPCQFI2428	1 1/2	1 3/4	1.7485§	1.7502§	1.5012	1.5016	1.5010	1.5020	F8	1.4990*	1.5000* *h7
HPCQFI2430	1 1/2	1 7/8	1.8750	1.8766	1.5002	1.5006	1.5000	1.5015	H8	1.4980	1.4990

§M8

Imperial stock tolerances

Tolerances

Plain Bearings

Length: L < 11/2" ± 0.005"
L > 11/2" < 3" ± 0.010"

Concentricity: Full indicated movement, D with respect to d;
d < 1/2" 0.002" max
d > 1/2" < 11/2 0.003" max
d > 11/2" 0.004" max

Flanged Bearings

Length: L < 11/2" ± 0.005"
L > 11/2" < 3" ± 0.010

Flange thickness e ± 0.003"
Flange diameter D1 ± 0.005"

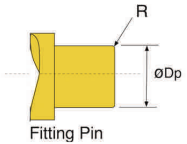
Concentricity: Full indicated movement, D with respect to d:

d < 1/2" 0.002" max
d > 1/2" < 11/2" 0.003" max
d < 11/2" 0.004" max

Chamfers: 45º chamfers are incorporated on inside and outside diameters at each end of bush. Chamfer length varies with bush wall thickness and outside diameter.

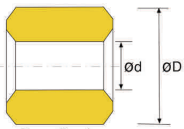
Radii: Radii varies with bush wall thickness and outside diameter. Contact our technical Department for details.

Metric flanged bushes - fitting data

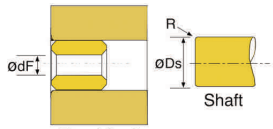


Fitting Pin

Housing



Free Bush



Shaft

Fitted Bush

PART NUMBER	Basic Sizes		Ø dH (H7)		Ø Dp (m5)		Ø dF (H7)		Ø Ds (f7)	
	Ø d	Ø D	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
HPCQFM0205	02	05	5.000	5.012	2.002	2.006	2.000	2.010	1.984	1.994
HPCQFM0306	03	06	6.000	6.012	3.002	3.006	3.000	3.010	2.984	1.994
HPCQFM0408	04	08	8.000	8.015	4.004	4.009	4.000	4.012	3.978	3.990
HPCQFM0509	05	09	9.000	9.015	5.004	5.009	5.000	5.012	4.978	4.990
HPCQFM0610	06	10	10.000	10.015	6.004	6.009	6.000	6.012	5.978	5.990
HPCQFM0711	07	11	11.000	11.018	7.005	7.012	7.000	7.015	6.972	6.987
HPCQFM0812	08	12	12.000	12.018	8.005	8.012	8.000	8.015	7.972	7.987
HPCQFM1013	10	13	13.000	13.018	10.005	10.012	10.000	10.015	9.972	9.987
HPCQFM1015	10	15	15.000	15.018	10.005	10.012	10.000	10.015	9.972	9.987
HPCQFM1016	10	16	16.000	16.018	10.005	10.012	10.000	10.015	9.972	9.987
HPCQFM1215	12	15	15.000	15.018	12.006	12.015	12.000	12.018	11.966	11.984
HPCQFM1217	12	17	17.000	17.018	12.006	12.015	12.000	12.018	11.966	11.984
HPCQFM1218	12	18	18.000	18.018	12.006	12.015	12.000	12.018	11.966	11.984
HPCQFM1420	14	20	20.000	20.021	14.006	14.015	14.000	14.018	13.966	13.984
HPCQFM1519	15	19	19.000	19.021	15.006	15.015	15.000	15.018	14.966	14.984
HPCQFM1521	15	21	21.000	21.021	15.006	15.015	15.000	15.018	14.966	14.984
HPCQFM1620	16	20	20.000	20.021	16.006	16.015	16.000	16.018	15.966	15.984
HPCQFM1622	16	22	22.000	22.021	16.006	16.015	16.000	16.018	15.966	15.984

Metric flanged bushes - fitting data

PART NUMBER	Basic Sizes		Ø dH (H7)		Ø Dp (m5)		Ø dF (H7)		Ø Ds (f7)	
	Ø d	Ø D	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
HPCQFM1824	18	24	24.000	24.021	18.006	18.015	18.000	18.018	17.966	17.984
HPCQFM2024	20	24	24.000	24.021	20.007	20.017	20.000	20.021	19.959	19.980
HPCQFM2026	20	26	26.000	26.021	20.007	20.017	20.000	20.021	19.959	19.980
HPCQFM2228	22	28	28.000	28.021	22.007	22.017	22.000	22.021	21.959	21.980
HPCQFM2530	25	30	30.000	30.021	25.007	25.017	25.000	22.021	24.959	24.980
HPCQFM2532	25	32	32.000	32.025	25.007	25.017	25.000	25.021	24.959	24.980
HPCQFM2836	28	36	36.000	36.025	28.007	28.017	28.000	28.021	27.959	27.980
HPCQFM3038	30	38	38.000	38.025	30.007	30.017	30.000	30.021	29.959	29.980
HPCQFM3238	32	38	38.000	38.025	32.009	32.020	32.000	32.025	31.950	31.975
HPCQFM3240	32	40	40.000	40.025	32.009	32.020	32.000	32.025	31.950	31.975
HPCQFM3545	35	45	45.000	45.025	35.009	35.020	35.000	35.025	34.950	34.975
HPCQFM3848	38	48	48.000	48.025	38.009	38.020	38.000	38.025	37.950	37.975
HPCQFM4046	40	46	46.000	46.025	40.009	40.020	40.000	40.025	39.950	39.975
HPCQFM4050	40	50	50.000	50.025	40.009	40.020	40.000	40.025	39.950	39.975
HPCQFM4252	42	52	52.000	52.030	42.009	42.020	42.000	42.039	41.950	41.975
HPCQFM4555	45	55	55.000	55.030	45.009	45.020	45.000	45.039	44.950	44.975
HPCQFM5060	50	60	60.000	60.030	50.009	50.020	50.000	50.039	49.950	49.975

'Never Knowingly Outpriced'

Metric stock tolerances

Plain Bearings

Length: L js 13

Concentricity: Full indicated movement.

D with respect to d: D < 50 mm IT9; D > 50 mm, IT 10.

Flanged Bearings

Length: L js 13

Flange thickness: e js 13

Flange diameter: D js 13

Concentricity: Full indicated movement. D with respect to d:D < 50 mm IT9; D > 50mm, IT10.

Chamfers: 45º chamfers are incorporated on inside and outside diameters at each end of the bush. Chamfer length varies with bush wall thickness and outside diameter.

Flanged Bearings

Radii (between outside diameter and flange face)	
Outside Diameter	r max.
≤ 12	0.3
>12 ≤ 30	0.6
>30	0.8

Plain and Flanged Bearings

Tolerances					
Nominal Sizes (mm)		Standard Tolerances			
-	3	0.025	-	0.070	0.070
3	6	0.030	-	0.090	0.090
6	10	0.036	-	0.110	0.110
10	18	0.043	-	0.135	0.135
18	30	0.052	-	0.165	0.165
30	50	0.062	-	0.195	0.195
50	80	-	0.120	0.230	0.230