

oilite[®]

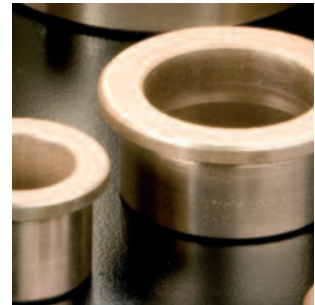
BEARINGS



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oilite®
BEARINGS



LRQ 0960929

The industry standard

Oilite® has been acknowledged as the undisputed market leader in self-lubricating bearings for almost 80 years, and today sets the standard for other products with its quality and reliability.

The extensive technical knowledge and manufacturing resources behind Oilite® have resulted in a vast array of sophisticated, high quality components that are supplied to a wide range of industries, throughout the world.

Widest range in Europe

As well as being the UK's number one choice, Oilite® bearings are also produced for other EU markets and offer the widest choice of self-lubricating bearings anywhere in Europe. Standard stock ranges are available in metric and inch. To ensure that customers have the benefit of fast delivery, a large range of European sizes are always stocked.

- 1000 European standard sizes
- Stock holding for fast delivery

There are now five standard stock ranges, ISO Metric, Inch, DIN 1850, French Metric and Scandinavian Metric.

Bespoke products

Where customer requirements are not met by stock items, our bespoke service enables us to produce both bronze and iron bearings and customer specified structural parts that are specifically designed to meet individual requirements.

Manufacturing quality and efficiency

Our manufacturing facilities are highly automated for maximum efficiency and competitiveness. Rigorous quality control procedures are adopted at all stages of manufacture.

Custom Machining

Bowman also specialise in machining Oilite® self-lubricating bearings and plates to meet individual specifications and tolerances. This service provides, for example, one-off requirements in machine maintenance or limited production runs in the OEM design field or for prototype testing before committing to tooling. Specialist tools and machining techniques are employed. This maintains the performance characteristics and physical properties which are the prerequisite of these components.

Certification

The company is certified to the Quality Management Systems requirement of ISO 9001:2000 by LRQA Certificate No. LRQ0960929 and is approved for use by:

- Augusta Westland
- Messier Dowty.

Certificates of conformity & Certificates of material analysis are supplied by request.

CLICK HERE to view ISO 9001:2000 certificate.

Special Lubricants & 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 with varying temperature ranges are available to meet specific requirements. Lubricant additives are also available to impart anti-wear properties in marginal lubrication conditions such as stainless steel shaft applications.

Technical Advice

Extensive technical resources are available to resolve bearing problems. Engineers are always available to discuss projects in detail, without obligation.

Oilite® conforms to DIN 1850/ISO 2795

Oilite® metric bearings are manufactured to the tolerances set out in ISO 2795 - Plain Bearings from Sintered Material. The German stock range of bearings conform to DIN 1850.

Material Choice

Standard Oilite® - oil retaining tin bronze is the generally specified material. It gives a good balance between strength, wear resistance, conformability and durability in operation. Ideal in a wide variety of applications where "self lubricating" properties are required over a long period of time.

Super Oilite® – an iron copper material suited to high static loads and slow oscillatory motion.

Iron Oilite® – 100% iron oil-retaining bearings provide an ideal solution in high stress low revolution applications.

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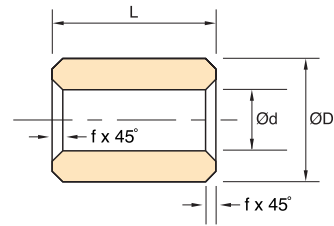
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Metric plain bearings to ISO 2795

| Part Code | Inner Diameter | | | Outer Diameter | | | Basic L (js13) | Tolerances | |
|-----------|----------------|--------|--------|----------------|--------|--------|----------------|------------|----|
| | Basic | Min. | Max. | Basic | Min. | Max. | | ID | OD |
| AM 0204* | 2 | 2.014 | 2.024 | 4 | 4.015 | 4.027 | 4 | E7 | r7 |
| AM 0205 | 2 | 2.002 | 2.012 | 5 | 5.019 | 5.031 | 2 4 3 | G7 | s7 |
| AM 0305 | 3 | 3.002 | 3.012 | 5 | 5.019 | 5.031 | 3 4 6 | G7 | s7 |
| AM 0306 | 3 | 3.002 | 3.012 | 6 | 6.019 | 6.031 | 3 4 6 | G7 | s7 |
| AM 0308* | 3 | 3.02 | 3.032 | 8 | 8.019 | 8.034 | 4 | E7 | r7 |
| AM 0407 | 4 | 4.004 | 4.016 | 7 | 7.023 | 7.038 | 3 4 6 | G7 | s7 |
| AM 0408 | 4 | 4.004 | 4.016 | 8 | 8.023 | 8.038 | 4 6 8 12 | G7 | s7 |
| AM 0410* | 4 | 4.02 | 4.032 | 10 | 10.023 | 10.041 | 8 | E7 | r7 |
| AM 0508 | 5 | 5.004 | 5.016 | 8 | 8.023 | 8.038 | 4 5 8 10 12 16 | G7 | s7 |
| AM 0509 | 5 | 5.004 | 5.016 | 9 | 9.023 | 9.038 | 4 5 8 | G7 | s7 |
| AM 0510* | 5 | 5.02 | 5.032 | 10 | 10.023 | 10.041 | 6 8 10 | E7 | r7 |
| AM 0512* | 5 | 5.02 | 5.032 | 12 | 12.023 | 12.041 | 10 | E7 | r7 |
| AM 0609 | 6 | 6.004 | 6.016 | 9 | 9.023 | 9.038 | 4 6 10 12 16 | G7 | s7 |
| AM 0610 | 6 | 6.004 | 6.016 | 10 | 10.023 | 10.038 | 4 6 10 12 16 | G7 | s7 |
| AM 0612* | 6 | 6.025 | 6.04 | 12 | 12.023 | 12.041 | 6 8 12 | E7 | r7 |
| AM 0614* | 6 | 6.025 | 6.04 | 14 | 14.023 | 14.041 | 12 | E7 | r7 |
| AM 0710 | 7 | 7.005 | 7.020 | 10 | 10.023 | 10.038 | 5 8 10 | G7 | s7 |
| AM 0711 | 7 | 7.005 | 7.020 | 11 | 11.028 | 11.046 | 8 10 | G7 | s7 |
| AM 0811 | 8 | 8.005 | 8.020 | 11 | 11.028 | 11.046 | 6 8 12 | G7 | s7 |
| AM 0812 | 8 | 8.005 | 8.020 | 12 | 12.028 | 12.046 | 6 8 12 16 20 | G7 | s7 |
| AM 0814 | 8 | 8.005 | 8.020 | 14 | 14.028 | 14.046 | 8 12 16 20 | G7 | s7 |
| AM 0818* | 8 | 8.032 | 8.05 | 18 | 18.028 | 18.049 | 16 | E7 | r7 |
| AM 0912 | 9 | 9.005 | 9.020 | 12 | 12.028 | 12.046 | 6 10 14 | G7 | s7 |
| AM 0914 | 9 | 9.005 | 9.020 | 14 | 14.028 | 14.046 | 6 10 14 | G7 | s7 |
| AM 1013 | 10 | 10.005 | 10.020 | 13 | 13.028 | 13.046 | 10 16 | G7 | s7 |
| AM 1014 | 10 | 10.005 | 10.020 | 14 | 14.028 | 14.046 | 8 10 16 20 25 | G7 | s7 |
| AM 1015 | 10 | 10.005 | 10.020 | 15 | 15.028 | 15.046 | 10 16 20 25 | G7 | s7 |
| AM 1016 | 10 | 10.005 | 10.020 | 16 | 16.028 | 16.046 | 8 10 16 20 25 | G7 | s7 |
| AM 1022* | 10 | 10.032 | 10.05 | 22 | 22.028 | 22.049 | 20 | E7 | r7 |
| AM 1215 | 12 | 12.006 | 12.024 | 15 | 15.028 | 15.046 | 12 16 20 25 | G7 | s7 |
| AM 1216 | 12 | 12.006 | 12.024 | 16 | 16.028 | 16.046 | 8 12 16 20 25 | G7 | s7 |
| AM 1218 | 12 | 12.006 | 12.024 | 18 | 18.028 | 18.046 | 8 12 16 20 25 | G7 | s7 |
| AM 1225* | 12 | 12.032 | 12.05 | 25 | 25.028 | 25.049 | 25 | E7 | r7 |
| AM 1418 | 14 | 14.006 | 14.024 | 18 | 18.028 | 18.046 | 10 14 20 | G7 | s7 |
| AM 1420 | 14 | 14.006 | 14.024 | 20 | 20.035 | 20.056 | 10 14 20 30 | G7 | s7 |
| AM 1428* | 14 | 14.032 | 14.05 | 28 | 28.028 | 28.049 | 30 | E7 | r7 |
| AM 1519 | 15 | 15.006 | 15.024 | 19 | 19.035 | 19.056 | 10 15 20 25 30 | G7 | s7 |
| AM 1520* | 15 | 15.032 | 15.050 | 20 | 20.028 | 20.049 | 10 15 20 25 30 | E7 | r7 |
| AM 1521 | 15 | 15.006 | 15.024 | 21 | 21.035 | 21.056 | 10 15 20 25 | G7 | s7 |
| AM 1522 | 15 | 15.032 | 15.050 | 22 | 22.028 | 22.049 | 16 20 30 | G7 | s7 |
| AM 1530* | 15 | 15.032 | 15.05 | 30 | 30.034 | 30.059 | 30 | E7 | r7 |
| AM 1620 | 16 | 16.006 | 16.024 | 20 | 20.035 | 20.056 | 12 16 20 25 30 | G7 | s7 |
| AM 1622 | 16 | 16.006 | 16.024 | 22 | 22.035 | 22.056 | 12 16 20 25 30 | G7 | s7 |
| AM 1632* | 16 | 16.032 | 16.05 | 32 | 32.034 | 32.059 | 30 | E7 | r7 |
| AM 1822 | 18 | 18.006 | 18.024 | 22 | 22.035 | 22.056 | 12 18 20 30 | G7 | s7 |
| AM 1824 | 18 | 18.006 | 18.024 | 24 | 24.035 | 24.056 | 12 18 30 | G7 | s7 |
| AM 1825 | 18 | 18.006 | 18.024 | 25 | 25.035 | 25.056 | 12 16 20 22 30 | G7 | s7 |
| AM 1835* | 18 | 18.04 | 18.061 | 35 | 35.034 | 35.059 | 30 | E7 | r7 |
| AM 2024 | 20 | 20.007 | 20.028 | 24 | 24.035 | 24.056 | 16 20 25 32 | G7 | s7 |
| AM 2025 | 20 | 20.007 | 20.028 | 25 | 25.035 | 25.056 | 15 20 25 30 | G7 | s7 |
| AM 2026 | 20 | 20.007 | 20.028 | 26 | 26.035 | 26.056 | 15 20 25 30 | G7 | s7 |
| AM 2028 | 20 | 20.007 | 20.028 | 28 | 28.035 | 28.056 | 20 25 30 40 50 | G7 | s7 |
| AM 2040* | 20 | 20.04 | 20.061 | 40 | 40.034 | 40.059 | 40 | E7 | r7 |
| AM 2227 | 22 | 22.007 | 22.028 | 27 | 27.035 | 27.056 | 15 20 25 35 | G7 | s7 |
| AM 2228 | 22 | 22.007 | 22.028 | 28 | 28.035 | 28.056 | 15 20 25 28 30 | G7 | s7 |
| AM 2232 | 22 | 22.007 | 22.028 | 32 | 32.043 | 32.068 | 20 30 50 | G7 | s7 |
| AM 2530 | 25 | 25.007 | 25.028 | 30 | 30.035 | 30.056 | 20 25 30 50 | G7 | s7 |



Bearings marked * are not included in ISO 2795.

For ordering see following part code examples.
 4 ID x 7 OD x 4 long = AM040704 or 12 ID x 15 OD x 25 long = AM121525.

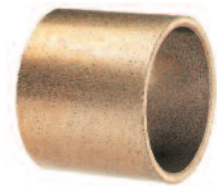
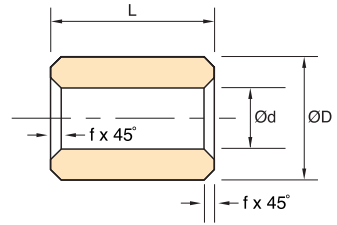
Non-standard lengths can be supplied. If the size you require is not listed please contact our sales dept. We also offer a specialised machining service for low volume non-standard sizes and tolerances.

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Metric plain bearings to ISO 2795 – continued

| Part Code | Inner Diameter | | | Outer Diameter | | | Basic L (js13) | | | | | Tolerances | | | | |
|-----------|----------------|---------|---------|----------------|---------|---------|----------------|-----|-----|----|----|------------|----|-----|----|----|
| | Basic | Min. | Max. | Basic | Min. | Max. | | | | | | | ID | OD | | |
| AM 2532 | 25 | 25.007 | 25.028 | 32 | 32.043 | 32.068 | 20 | 25 | 30 | 35 | 40 | | G7 | s7 | | |
| AM 2535 | 25 | 25.007 | 25.028 | 35 | 35.043 | 35.068 | 25 | 35 | 50 | | | | G7 | s7 | | |
| AM 2545 | 25 | 25.04 | 25.061 | 45 | 45.034 | 45.059 | 35 | | | | | | E7 | r7 | | |
| AM 2833 | 28 | 28.007 | 28.028 | 33 | 33.043 | 33.068 | 20 | 30 | | | | | G7 | s7 | | |
| AM 2836 | 28 | 28.007 | 28.028 | 36 | 36.043 | 36.068 | 20 | 25 | 30 | 40 | | | G7 | s7 | | |
| AM 3035 | 30 | 30.007 | 30.028 | 35 | 35.043 | 35.068 | 20 | 25 | 30 | | | | G7 | s7 | | |
| AM 3038 | 30 | 30.007 | 30.028 | 38 | 38.043 | 38.068 | 20 | 25 | 30 | 40 | | | G7 | s7 | | |
| AM 3040 | 30 | 30.007 | 30.028 | 40 | 40.043 | 40.068 | 25 | 35 | 40 | 45 | 50 | 60 | G7 | s7 | | |
| AM 3050 | 30 | 30.05 | 30.075 | 50 | 50.041 | 50.071 | 60 | | | | | | E7 | r7 | | |
| AM 3238 | 32 | 32.009 | 32.034 | 38 | 38.043 | 38.068 | 20 | 25 | 30 | 40 | | | G7 | s7 | | |
| AM 3240 | 32 | 32.009 | 32.034 | 40 | 40.043 | 40.068 | 20 | 25 | 30 | 40 | 50 | | G7 | s7 | | |
| AM 3541 | 35 | 35.009 | 35.034 | 41 | 41.043 | 41.068 | 25 | 35 | 40 | | | | G7 | s7 | | |
| AM 3544 | 35 | 35.009 | 35.034 | 44 | 44.043 | 44.068 | 22 | 28 | 35 | | | | G7 | s7 | | |
| AM 3545 | 35 | 35.009 | 35.034 | 45 | 45.043 | 45.068 | 25 | 35 | 40 | 50 | 70 | | G7 | s7 | | |
| AM 3642 | 36 | 36.009 | 36.034 | 42 | 42.043 | 42.068 | 22 | 28 | 36 | 45 | | | G7 | s7 | | |
| AM 3645 | 36 | 36.009 | 36.034 | 45 | 45.043 | 45.068 | 22 | 28 | 36 | 45 | | | G7 | s7 | | |
| AM 3844 | 38 | 38.009 | 38.034 | 44 | 44.043 | 44.068 | 25 | 35 | 45 | | | | G7 | s7 | | |
| AM 3848 | 38 | 38.009 | 38.034 | 48 | 48.043 | 48.068 | 35 | 45 | 55 | | | | G7 | s7 | | |
| AM 4046 | 40 | 40.009 | 40.034 | 46 | 46.043 | 46.068 | 30 | 40 | 50 | | | | G7 | s7 | | |
| AM 4050 | 40 | 40.009 | 40.034 | 50 | 50.043 | 50.068 | 25 | 30 | 32 | 35 | 40 | 50 | 60 | 80 | G7 | s7 |
| AM 4248 | 42 | 42.009 | 42.034 | 48 | 48.043 | 48.068 | 40 | 50 | | | | | G7 | s7 | | |
| AM 4252 | 42 | 42.009 | 42.048 | 52 | 52.053 | 52.099 | 40 | 50 | 60 | | | | G8 | s8 | | |
| AM 4551 | 45 | 45.009 | 45.048 | 51 | 51.053 | 51.099 | 35 | 45 | 55 | | | | G8 | s8 | | |
| AM 4555 | 45 | 45.009 | 45.048 | 55 | 55.053 | 55.099 | 35 | 45 | 55 | 65 | 75 | 80 | G8 | s8 | | |
| AM 4556 | 45 | 45.009 | 45.048 | 56 | 56.053 | 56.099 | 28 | 36 | 45 | 56 | | | G8 | s8 | | |
| AM 4565 | 45 | 45.05 | 45.075 | 65 | 65.043 | 65.073 | 80 | | | | | | E7 | r7 | | |
| AM 4855 | 48 | 48.009 | 48.048 | 55 | 55.053 | 55.099 | 50 | | | | | | G8 | s8 | | |
| AM 4858 | 48 | 48.009 | 48.048 | 58 | 58.053 | 58.099 | 50 | | | | | | G8 | s8 | | |
| AM 5058 | 50 | 50.009 | 50.048 | 58 | 58.053 | 58.099 | 35 | 50 | | | | | G8 | s8 | | |
| AM 5060 | 50 | 50.009 | 50.048 | 60 | 60.053 | 60.099 | 30 | 35 | 40 | 50 | 63 | 70 | 75 | 100 | G8 | s8 |
| AM 5070 | 50 | 50.06 | 50.09 | 70 | 70.043 | 70.073 | 70 | | | | | | E7 | r7 | | |
| AM 5563 | 55 | 55.010 | 55.056 | 63 | 63.053 | 63.099 | 40 | 55 | | | | | G8 | s8 | | |
| AM 5570 | 55 | 55.06 | 55.106 | 70 | 70.043 | 70.089 | 70 | | | | | | E8 | r8 | | |
| AM 5565 | 55 | 55.010 | 55.056 | 65 | 65.053 | 65.099 | 40 | 55 | 70 | | | | G8 | s8 | | |
| AM 6068 | 60 | 60.010 | 60.056 | 68 | 68.059 | 68.105 | 50 | 60 | 70 | | | | G8 | s8 | | |
| AM 6070 | 60 | 60.010 | 60.056 | 70 | 70.059 | 70.105 | 50 | 60 | 120 | | | | G8 | s8 | | |
| AM 6072 | 60 | 60.010 | 60.056 | 72 | 72.059 | 72.105 | 50 | 60 | 70 | | | | G8 | s8 | | |
| AM 6075 | 60 | 60.06 | 60.106 | 75 | 75.043 | 75.089 | 60 | 90 | | | | | E8 | r8 | | |
| AM 6080 | 60 | 60.06 | 60.106 | 80 | 80.051 | 80.105 | 120 | | | | | | E8 | r8 | | |
| AM 6085 | 60 | 60.06 | 60.106 | 85 | 85.051 | 85.105 | 90 | | | | | | E8 | r8 | | |
| AM 6370 | 63 | 63.010 | 63.056 | 70 | 70.059 | 70.105 | 40 | 50 | | | | | G8 | s8 | | |
| AM 6575 | 65 | 65.06 | 65.106 | 75 | 75.051 | 75.105 | 60 | 90 | | | | | E8 | r8 | | |
| AM 6580 | 65 | 65.06 | 65.106 | 80 | 80.051 | 80.105 | 60 | 90 | | | | | E8 | r8 | | |
| AM 7080 | 70 | 70.06 | 70.106 | 80 | 80.051 | 80.105 | 60 | 90 | 120 | | | | E8 | r8 | | |
| AM 7085 | 70 | 70.06 | 70.106 | 85 | 85.051 | 85.105 | 60 | 90 | | | | | E8 | r8 | | |
| AM 7585 | 75 | 75.06 | 75.106 | 85 | 85.051 | 85.105 | 70 | 100 | | | | | E8 | r8 | | |
| AM 7590 | 75 | 75.06 | 75.106 | 90 | 90.051 | 90.105 | 70 | 100 | | | | | E8 | r8 | | |
| AM 75100 | 75 | 75.06 | 75.106 | 100 | 100.054 | 100.089 | 100 | | | | | | E8 | r8 | | |
| AM 8090 | 80 | 80.072 | 80.125 | 90 | 90.051 | 90.105 | 70 | 100 | | | | | E8 | r8 | | |
| AM 8095 | 80 | 80.072 | 80.125 | 95 | 95.051 | 95.105 | 70 | 100 | | | | | E8 | r8 | | |
| AM 80100 | 80 | 80.072 | 80.125 | 100 | 100.054 | 100.089 | 120 | | | | | | E8 | r8 | | |
| AM 80105 | 80 | 80.072 | 80.125 | 105 | 105.054 | 105.089 | 100 | | | | | | E8 | r8 | | |
| AM 8595 | 85 | 85.072 | 85.125 | 95 | 95.051 | 95.105 | 100 | | | | | | E8 | r8 | | |
| AM 85100 | 85 | 85.072 | 85.125 | 100 | 100.054 | 100.089 | 100 | | | | | | E8 | r8 | | |
| AM 90105 | 90 | 90.072 | 90.125 | 105 | 105.054 | 105.089 | 80 | | | | | | E8 | r8 | | |
| AM 90110 | 90 | 90.072 | 90.125 | 110 | 110.054 | 110.089 | 80 | | | | | | E8 | r8 | | |
| AM 100120 | 100 | 100.072 | 100.125 | 120 | 120.063 | 120.126 | 80 | 100 | 120 | | | | E8 | r8 | | |

Note
ISO Metric Bearing Standard is G7 s7



Non-standard lengths can be supplied. If the size you require is not listed please contact our sales dept. We also offer a specialised machining service for low volume non-standard sizes and tolerances.

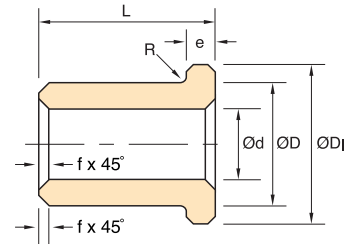
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Metric flanged bearings to ISO 2795

| Part Code | Inner Diameter | | | Outer Diameter | | | ØD1 | e | Basic L | Tolerances | |
|-----------|----------------|---------|---------|----------------|---------|---------|-----|-----|-------------|------------|----|
| | Basic | Min. | Max. | Basic | Min. | Max. | | | | ID | OD |
| AL 0205 | 2 | 2.002 | 2.012 | 5 | 5.019 | 5.031 | 8 | 1.5 | 3 | G7 | s7 |
| AL 0305 | 3 | 3.02 | 3.032 | 5 | 5.015 | 5.027 | 8 | 1.5 | 4 | G7 | s7 |
| AL 0306 | 3 | 3.002 | 3.012 | 6 | 6.019 | 6.031 | 9 | 1.5 | 3 4 | G7 | s7 |
| AL 0408 | 4 | 4.004 | 4.016 | 8 | 8.023 | 8.038 | 12 | 2 | 4 6 8 12 | G7 | s7 |
| AT 0408 | 4 | 4.02 | 4.032 | 8 | 8.019 | 8.034 | 10 | 1.5 | 6 | G7 | s7 |
| AL 0509 | 5 | 5.004 | 5.016 | 9 | 9.023 | 9.038 | 13 | 2 | 4 5 8 | G7 | s7 |
| AL 0510 | 5 | 5.02 | 5.032 | 10 | 10.023 | 10.041 | 12 | 2 | 6 | G7 | s7 |
| AL 0610 | 6 | 6.004 | 6.016 | 10 | 10.023 | 10.038 | 14 | 2 | 4 6 8 10 16 | G7 | s7 |
| AL 0612 | 6 | 6.025 | 6.04 | 12 | 12.023 | 12.041 | 14 | 2 | 6 | G7 | s7 |
| AL 0711 | 7 | 7.005 | 7.020 | 11 | 11.028 | 11.046 | 15 | 2 | 5 8 | G7 | s7 |
| AL 0812 | 8 | 8.005 | 8.020 | 12 | 12.028 | 12.046 | 16 | 2 | 6 8 12 16 | G7 | s7 |
| AL 0814 | 8 | 8.025 | 8.04 | 14 | 14.023 | 14.041 | 18 | 3 | 8 | G7 | s7 |
| AL 0914 | 9 | 9.025 | 9.04 | 14 | 14.023 | 14.041 | 19 | 2.5 | 6 10 14 | G7 | s7 |
| AL 1013 | 10 | 10.005 | 10.020 | 13 | 13.028 | 13.046 | 17 | 2.5 | 8 10 16 20 | G7 | s7 |
| AL 1014* | 10 | 10.032 | 10.05 | 14 | 14.023 | 14.041 | 18 | 2 | 12 | E7 | r7 |
| AL 1015 | 10 | 10.005 | 10.020 | 15 | 15.028 | 15.046 | 21 | 3 | 8 10 16 20 | G7 | s7 |
| AL 1016 | 10 | 10.005 | 10.020 | 16 | 16.028 | 16.046 | 22 | 3 | 8 10 12 16 | G7 | s7 |
| AT 1016* | 10 | 10.032 | 10.05 | 16 | 16.023 | 16.041 | 20 | 3 | 8 10 | E7 | r7 |
| AL 1215 | 12 | 12.006 | 12.024 | 15 | 15.028 | 15.046 | 21 | 3 | 12 16 20 | G7 | s7 |
| AL 1217 | 12 | 12.006 | 12.024 | 17 | 17.028 | 17.046 | 23 | 3 | 12 16 20 25 | G7 | s7 |
| AL 1218 | 12 | 12.006 | 12.024 | 18 | 18.028 | 18.046 | 24 | 3 | 8 12 20 | G7 | s7 |
| AT 1218* | 12 | 12.032 | 12.05 | 18 | 18.028 | 18.049 | 22 | 3 | 10 12 | E7 | r7 |
| AL 1420 | 14 | 14.006 | 14.024 | 20 | 20.035 | 20.056 | 26 | 3 | 10 14 20 | G7 | s7 |
| AL 1519 | 15 | 15.006 | 15.024 | 19 | 19.035 | 19.056 | 25 | 3 | 16 20 25 | G7 | s7 |
| AL 1521 | 15 | 15.006 | 15.024 | 21 | 21.035 | 21.056 | 27 | 3 | 10 15 20 25 | G7 | s7 |
| AT 1522* | 15 | 15.032 | 15.05 | 22 | 22.028 | 22.049 | 28 | 3 | 12 16 | E7 | r7 |
| AL 1620 | 16 | 16.006 | 16.024 | 20 | 20.035 | 20.056 | 27 | 3 | 16 20 25 | G7 | s7 |
| AT 1620* | 16 | 16.032 | 16.05 | 20 | 20.028 | 20.049 | 24 | 2 | 12 | E7 | r7 |
| AL 1622 | 16 | 16.006 | 16.024 | 22 | 22.035 | 22.056 | 28 | 3 | 12 16 20 25 | G7 | s7 |
| AT 1622* | 16 | 16.032 | 16.05 | 22 | 22.028 | 22.049 | 28 | 4 | 12 16 | E7 | r7 |
| AL 1824 | 18 | 18.006 | 18.024 | 24 | 24.035 | 24.056 | 30 | 3 | 12 18 22 30 | G7 | s7 |
| AT 1825* | 18 | 18.04 | 18.061 | 25 | 25.028 | 25.049 | 32 | 4 | 12 16 | E7 | r7 |
| AL 2024 | 20 | 20.007 | 20.028 | 24 | 24.035 | 24.056 | 30 | 3 | 16 20 25 | G7 | s7 |
| AL 2026 | 20 | 20.007 | 20.028 | 26 | 26.035 | 26.056 | 32 | 3 | 15 20 25 30 | G7 | s7 |
| AL 2028* | 20 | 20.04 | 20.061 | 28 | 28.028 | 28.049 | 35 | 4 | 16 20 | E7 | r7 |
| AL 2228 | 22 | 22.007 | 22.028 | 28 | 28.035 | 28.056 | 34 | 3 | 15 20 25 30 | G7 | s7 |
| AL 2530 | 25 | 25.007 | 25.028 | 30 | 30.035 | 30.056 | 39 | 3.5 | 20 25 32 | G7 | s7 |
| AL 2532 | 25 | 25.007 | 25.028 | 32 | 32.043 | 32.068 | 39 | 3.5 | 20 25 30 | G7 | s7 |
| AL 2535* | 25 | 25.04 | 25.061 | 35 | 35.034 | 35.059 | 45 | 5 | 16 25 | E7 | r7 |
| AL 2836 | 28 | 28.007 | 28.028 | 36 | 36.043 | 36.068 | 44 | 4 | 20 25 30 | G7 | s7 |
| AL 3038 | 30 | 30.007 | 30.028 | 38 | 38.043 | 38.068 | 46 | 4 | 20 25 30 | G7 | s7 |
| AL 3040* | 30 | 30.05 | 30.075 | 40 | 40.034 | 40.059 | 50 | 5 | 20 30 | E7 | r7 |
| AL 3238 | 32 | 32.009 | 32.034 | 38 | 38.043 | 38.068 | 46 | 4 | 20 25 32 | G7 | s7 |
| AL 3240 | 32 | 32.009 | 32.034 | 40 | 40.043 | 40.068 | 48 | 4 | 20 25 30 | G7 | s7 |
| AL 3545 | 35 | 35.009 | 35.034 | 45 | 45.043 | 45.068 | 55 | 5 | 20 25 35 40 | G7 | s7 |
| AL 3848 | 38 | 38.009 | 38.034 | 48 | 48.043 | 48.068 | 58 | 5 | 25 35 | G7 | s7 |
| AL 4046 | 40 | 40.009 | 40.034 | 46 | 46.043 | 46.068 | 56 | 5 | 25 32 40 | G7 | s7 |
| AL 4050 | 40 | 40.009 | 40.034 | 50 | 50.043 | 50.068 | 60 | 5 | 25 30 40 50 | G7 | s7 |
| AT 4050* | 40 | 40.05 | 40.075 | 50 | 50.041 | 50.071 | 60 | 6 | 25 40 | E7 | r7 |
| AL 4252 | 42 | 42.009 | 42.048 | 52 | 52.053 | 52.099 | 62 | 5 | 40 50 | G8 | s8 |
| AL 4555 | 45 | 45.009 | 45.048 | 55 | 55.053 | 55.099 | 65 | 5 | 35 45 55 | G8 | s8 |
| AT 4555* | 45 | 45.05 | 45.075 | 55 | 55.041 | 55.071 | 65 | 6 | 30 45 | E7 | r7 |
| AL 5060 | 50 | 50.009 | 50.048 | 60 | 60.053 | 60.099 | 70 | 5 | 32 35 40 50 | G8 | s8 |
| AT 5060* | 50 | 50.06 | 50.09 | 60 | 60.041 | 60.071 | 70 | 6 | 30 50 | E7 | r7 |
| AL 6072 | 60 | 60.06 | 60.106 | 72 | 72.043 | 72.089 | 84 | 6 | 50 60 | E8 | r8 |
| AL 6075 | 60 | 60.06 | 60.106 | 75 | 75.043 | 75.089 | 85 | 8 | 60 | E8 | r8 |
| AL 7085 | 70 | 70.06 | 70.106 | 85 | 85.051 | 85.105 | 95 | 8 | 60 | E8 | r8 |
| AL 8095 | 80 | 80.072 | 80.125 | 95 | 95.051 | 95.105 | 105 | 8 | 70 | E8 | r8 |
| AL 90110 | 90 | 90.072 | 90.125 | 110 | 110.054 | 110.108 | 120 | 8 | 50 | E8 | r8 |
| AL 100120 | 100 | 100.072 | 100.125 | 120 | 120.063 | 120.126 | 130 | 8 | 80 | E8 | r8 |



For ordering see following part code examples.

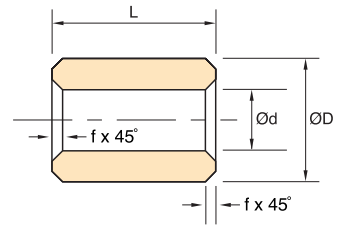
4 ID x 8 OD x 6 long = AL040806 or 12 ID x 15 OD x 20 long = AL121520.

Non-standard lengths can be supplied. If the size you require is not listed please contact our sales dept. We also offer a specialised machining service for low volume non-standard sizes and tolerances.

Bowman International Limited reserve the right to change specifications without prior notice E & OE

French metric plain bearings (F7 / 8 – s7/8 tolerances)

| Part Code | Inner Diameter Ød (F7/F8) | | | Outer Diameter ØD (s7/s8) | | | Basic L (js13) | | | F max | Concentricity D to d |
|-----------|---------------------------|--------|--------|---------------------------|--------|--------|----------------|----|----------|-------|----------------------|
| | Basic | Min | Max | Basic | Min | Max | | | | | |
| AF0205 | 2 | 2.007 | 2.016 | 5 | 5.019 | 5.031 | 2 | 3 | | 0.3 | 0.050 |
| AF0306 | 3 | 3.007 | 3.016 | 6 | 6.019 | 6.031 | 4 | 6 | 10 | 0.3 | 0.050 |
| AF0407 | 4 | 4.010 | 4.022 | 7 | 7.023 | 7.038 | 4 | 8 | 12 | 0.3 | 0.050 |
| AF0408 | 4 | 4.010 | 4.022 | 8 | 8.023 | 8.038 | 4 | 8 | 12 | 0.3 | 0.050 |
| AF0508 | 5 | 5.010 | 5.022 | 8 | 8.023 | 8.038 | 5 | 8 | 10 12 16 | 0.3 | 0.050 |
| AF0509 | 5 | 5.010 | 5.022 | 9 | 9.023 | 9.038 | 4 | 5 | 8 | 0.3 | 0.050 |
| AF0609 | 6 | 6.010 | 6.022 | 9 | 9.023 | 10.038 | 6 | 10 | 12 16 | 0.3 | 0.050 |
| AF0610 | 6 | 6.010 | 6.022 | 10 | 10.023 | 10.038 | 6 | 10 | 12 16 | 0.3 | 0.050 |
| AF0612 | 6 | 6.010 | 6.022 | 12 | 12.038 | 12.046 | 6 | 10 | 12 16 | 0.3 | 0.050 |
| AF0710 | 7 | 7.013 | 7.028 | 10 | 10.023 | 10.038 | 5 | 8 | 10 | 0.3 | 0.050 |
| AF0811 | 8 | 8.013 | 8.028 | 11 | 11.028 | 11.046 | 8 | 12 | 16 20 | 0.3 | 0.050 |
| AF0812 | 8 | 8.013 | 8.028 | 12 | 12.038 | 12.046 | 8 | 12 | 16 20 | 0.3 | 0.050 |
| AF0814 | 8 | 8.013 | 8.028 | 14 | 14.028 | 14.046 | 8 | 12 | 16 20 | 0.3 | 0.050 |
| AF0912 | 9 | 9.013 | 9.028 | 12 | 12.028 | 12.046 | 6 | 10 | 14 | 0.3 | 0.050 |
| AF1013 | 10 | 10.013 | 10.028 | 13 | 13.028 | 13.046 | 10 | 16 | 20 25 | 0.3 | 0.050 |
| AF1014 | 10 | 10.013 | 10.028 | 14 | 14.028 | 14.046 | 10 | 16 | 20 25 | 0.3 | 0.050 |
| AF1015 | 10 | 10.013 | 10.028 | 15 | 15.028 | 15.046 | 10 | 16 | 20 25 | 0.3 | 0.050 |
| AF1016 | 10 | 10.013 | 10.028 | 16 | 16.028 | 16.046 | 10 | 16 | 20 25 | 0.4 | 0.050 |
| AF1215 | 12 | 12.016 | 12.034 | 15 | 15.028 | 15.046 | 12 | 16 | 20 25 | 0.4 | 0.050 |
| AF1216 | 12 | 12.016 | 12.034 | 16 | 16.028 | 16.046 | 12 | 16 | 20 25 | 0.4 | 0.050 |
| AF1217 | 12 | 12.016 | 12.034 | 17 | 17.028 | 17.046 | 12 | 16 | 20 25 | 0.4 | 0.050 |
| AF1218 | 12 | 12.016 | 12.034 | 18 | 18.028 | 18.046 | 12 | 16 | 20 25 | 0.4 | 0.050 |
| AF1418 | 14 | 14.016 | 14.034 | 18 | 18.028 | 18.046 | 14 | 18 | 22 28 | 0.4 | 0.050 |
| AF1420 | 14 | 14.016 | 14.034 | 20 | 20.035 | 20.056 | 14 | 18 | 22 28 | 0.4 | 0.050 |
| AF1519 | 15 | 15.016 | 15.034 | 19 | 19.035 | 19.056 | 16 | 20 | 25 32 | 0.4 | 0.050 |
| AF1521 | 15 | 15.016 | 15.034 | 21 | 21.035 | 21.056 | 16 | 20 | 25 32 | 0.4 | 0.050 |
| AF1620 | 16 | 16.016 | 16.034 | 20 | 20.035 | 20.056 | 16 | 20 | 25 32 | 0.4 | 0.050 |
| AF1622 | 16 | 16.016 | 16.034 | 22 | 22.035 | 22.056 | 16 | 20 | 25 32 | 0.4 | 0.050 |
| AF1822 | 18 | 18.016 | 18.034 | 22 | 22.035 | 22.056 | 18 | 22 | 28 36 | 0.4 | 0.050 |
| AF1824 | 18 | 18.016 | 18.034 | 24 | 24.035 | 24.056 | 18 | 22 | 28 36 | 0.4 | 0.050 |
| AF1825 | 18 | 18.016 | 18.034 | 25 | 25.035 | 25.056 | 18 | 22 | 28 36 | 0.4 | 0.050 |
| AF2024 | 20 | 20.020 | 20.041 | 24 | 24.035 | 24.056 | 16 | 20 | 25 30 32 | 0.4 | 0.050 |
| AF2025 | 20 | 20.020 | 20.041 | 25 | 25.035 | 25.056 | 16 | 20 | 25 32 | 0.4 | 0.050 |
| AF2026 | 20 | 20.020 | 20.041 | 26 | 26.035 | 26.056 | 16 | 20 | 25 32 | 0.4 | 0.050 |
| AF2027 | 20 | 20.020 | 20.041 | 27 | 27.035 | 27.056 | 16 | 20 | 25 32 | 0.4 | 0.050 |
| AF2028 | 20 | 20.020 | 20.041 | 28 | 28.035 | 28.056 | 16 | 20 | 25 32 | 0.4 | 0.050 |
| AF2227 | 22 | 22.020 | 22.041 | 27 | 27.035 | 27.056 | 18 | 22 | 28 36 | 0.4 | 0.050 |
| AF2228 | 22 | 22.020 | 22.041 | 28 | 28.035 | 28.056 | 18 | 22 | 28 36 | 0.4 | 0.050 |
| AF2229 | 22 | 22.020 | 22.041 | 29 | 29.043 | 29.068 | 18 | 22 | 28 36 | 0.4 | 0.050 |
| AF2530 | 25 | 25.020 | 25.041 | 30 | 30.035 | 30.056 | 20 | 25 | 32 40 | 0.4 | 0.050 |
| AF2532 | 25 | 25.020 | 25.041 | 32 | 32.043 | 32.068 | 20 | 25 | 32 40 | 0.4 | 0.050 |
| AF2832 | 28 | 28.020 | 28.041 | 32 | 32.043 | 32.068 | 22 | 28 | 36 45 | 0.4 | 0.070 |
| AF2833 | 28 | 28.020 | 28.041 | 33 | 33.043 | 33.068 | 22 | 28 | 36 45 | 0.4 | 0.070 |
| AF2836 | 28 | 28.020 | 28.041 | 36 | 36.043 | 36.060 | 22 | 28 | 36 45 | 0.4 | 0.070 |
| AF3038 | 30 | 30.020 | 30.041 | 38 | 38.043 | 38.068 | 24 | 30 | 38 | 0.4 | 0.070 |
| AF3238 | 32 | 32.025 | 32.050 | 38 | 38.043 | 38.068 | 20 | 25 | 32 40 50 | 0.4 | 0.070 |
| AF3240 | 32 | 32.025 | 32.050 | 40 | 40.043 | 40.068 | 20 | 25 | 32 40 50 | 0.4 | 0.070 |
| AF3544 | 35 | 35.025 | 35.050 | 44 | 44.043 | 44.068 | 22 | 28 | 35 | 0.4 | 0.070 |
| AF3545 | 35 | 35.025 | 35.050 | 45 | 45.043 | 45.068 | 25 | 35 | 40 50 | 0.4 | 0.070 |
| AF3642 | 36 | 36.025 | 36.050 | 42 | 42.043 | 42.068 | 22 | 28 | 36 45 | 0.4 | 0.070 |
| AF3645 | 36 | 35.025 | 36.050 | 45 | 45.043 | 45.068 | 22 | 28 | 36 45 | 0.4 | 0.070 |
| AF3844 | 38 | 38.025 | 38.050 | 44 | 44.043 | 44.068 | 25 | 35 | 45 | 0.4 | 0.070 |
| AF4046 | 40 | 40.025 | 40.050 | 46 | 46.043 | 46.068 | 25 | 32 | 40 50 | 0.4 | 0.070 |
| AF4050 | 40 | 40.025 | 40.050 | 50 | 50.043 | 50.068 | 25 | 32 | 40 50 | 0.4 | 0.070 |
| AF4551 | 45 | 45.025 | 45.050 | 51 | 51.053 | 51.083 | 28 | 36 | 45 56 | 0.4 | 0.070 |
| AF4555 | 45 | 45.025 | 45.050 | 55 | 55.053 | 55.083 | 35 | 45 | 55 65 | 0.4 | 0.070 |
| AF4556 | 45 | 45.025 | 45.050 | 56 | 56.053 | 56.083 | 28 | 36 | 45 56 | 0.4 | 0.070 |
| AF5056 | 50 | 50.025 | 50.050 | 56 | 56.053 | 56.083 | 32 | 40 | 50 63 | 0.4 | 0.070 |
| AF5060 | 50 | 50.025 | 50.050 | 60 | 56.053 | 56.083 | 32 | 40 | 50 63 | 0.4 | 0.070 |
| AF5565 | 55 | 55.030 | 55.076 | 65 | 65.053 | 65.083 | 40 | 55 | 70 | 0.7 | 0.070 |
| AF6070 | 60 | 60.030 | 60.076 | 70 | 70.059 | 70.105 | 50 | 60 | | 0.7 | 0.070 |
| AF6072 | 60 | 60.030 | 60.076 | 72 | 72.059 | 72.105 | 50 | 60 | 70 | 0.7 | 0.070 |
| AF6080 | 60 | 60.030 | 60.076 | 80 | 80.059 | 80.105 | 90 | | | 0.7 | 0.070 |
| AF6370 | 63 | 63.030 | 63.076 | 70 | 70.059 | 70.105 | 40 | 50 | | 0.7 | 0.070 |



Non-standard lengths can be supplied. If the size you require is not listed please contact our sales dept. We also offer a specialised machining service for low volume non-standard sizes and tolerances. For ordering see following part code examples.
 4 ID x 7 OD x 4 long = AF040704 or
 12 ID x 15 OD x 25 long = AF121525.

| Tolerances | |
|-------------------|---------------|
| Ø Interior ≤ 50mm | tolerance -F7 |
| > 50mm | tolerance -F8 |
| Ø Exterior ≤ 50mm | tolerance -s7 |
| > 50mm | tolerance -s8 |

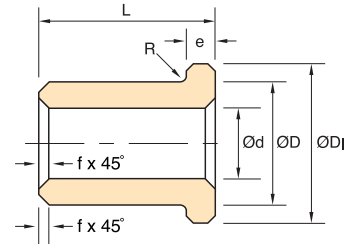
Bowman International Limited reserve the right to change specifications without prior notice E & OE

BOWMAN INTERNATIONAL LIMITED

10 Isis Court, Wyndyke Furlong, Abingdon Business Park, Abingdon, Oxfordshire, OX14 1DZ England
 Tel +44 (0)1235 815816 Fax +44 (0)1235 811234 E-mail enquiries@bowman.co.uk Website www.bowman.co.uk

French metric flanged bearings (F8 – s8 tolerances)

| Part Code | Inner Diameter Ød (F8) | | | Outer Diameter ØD (s8) | | | Basic L (js13) | | | øDI | e | f max | r max | Concentricity D to d | |
|-----------|------------------------|--------|--------|------------------------|--------|--------|----------------|----|----|-----|-----|-------|-------|----------------------|-------|
| | Basic | Min | Max | Basic | Min | Max | | | | | | | | | |
| AG0306 | 3 | 3.006 | 3.020 | 6 | 6.019 | 6.037 | 4 | 6 | 10 | 9 | 1.5 | 0.3 | 0.3 | 0.060 | |
| AG0408 | 4 | 4.010 | 4.028 | 8 | 8.023 | 8.045 | 4 | 6 | 12 | 8 | 12 | 2 | 0.3 | 0.3 | 0.060 |
| AG0610 | 6 | 6.010 | 6.028 | 10 | 10.023 | 10.045 | 6 | 10 | 16 | | 14 | 2 | 0.4 | 0.3 | 0.060 |
| AG0812 | 8 | 8.013 | 8.035 | 12 | 12.038 | 12.055 | 8 | 12 | 16 | | 16 | 2 | 0.4 | 0.3 | 0.060 |
| AG0914 | 9 | 9.013 | 9.035 | 14 | 14.028 | 14.055 | 6 | 10 | 14 | | 19 | 2.5 | 0.4 | 0.3 | 0.060 |
| AG1013 | 10 | 10.013 | 10.035 | 13 | 13.028 | 13.055 | 10 | 16 | 20 | | 16 | 1.5 | 0.4 | 0.3 | 0.060 |
| AG1015 | 10 | 10.013 | 10.035 | 15 | 15.028 | 15.055 | 10 | 16 | 20 | | 20 | 2.5 | 0.4 | 0.6 | 0.060 |
| AG1016 | 10 | 10.013 | 10.035 | 16 | 16.028 | 16.055 | 8 | 10 | 16 | | 22 | 3 | 0.4 | 0.6 | 0.060 |
| AG1215 | 12 | 12.016 | 12.043 | 15 | 15.028 | 15.055 | 12 | 16 | 20 | | 18 | 1.5 | 0.4 | 0.6 | 0.060 |
| AG1217 | 12 | 12.016 | 12.043 | 17 | 17.028 | 17.055 | 12 | 16 | 20 | 25 | 22 | 2.5 | 0.4 | 0.6 | 0.060 |
| AG1218 | 12 | 12.016 | 12.043 | 18 | 18.028 | 18.055 | 8 | 12 | 20 | | 24 | 3 | 0.4 | 0.6 | 0.060 |
| AG1418 | 14 | 14.016 | 14.043 | 18 | 18.028 | 18.055 | 14 | 18 | 22 | | 22 | 2 | 0.4 | 0.6 | 0.060 |
| AG1420 | 14 | 14.016 | 14.043 | 20 | 20.035 | 20.068 | 14 | 18 | 22 | 28 | 26 | 3 | 0.4 | 0.6 | 0.060 |
| AG1519 | 15 | 15.016 | 15.043 | 19 | 19.035 | 19.068 | 16 | 20 | 25 | | 23 | 2 | 0.4 | 0.6 | 0.060 |
| AG1521 | 15 | 15.016 | 15.043 | 21 | 21.035 | 21.068 | 16 | 20 | 25 | 32 | 27 | 3 | 0.4 | 0.6 | 0.060 |
| AG1620 | 16 | 16.016 | 16.043 | 20 | 20.035 | 20.068 | 16 | 20 | 25 | | 24 | 2 | 0.4 | 0.6 | 0.060 |
| AG1622 | 16 | 16.016 | 16.043 | 22 | 22.035 | 22.068 | 16 | 20 | 25 | 32 | 28 | 3 | 0.4 | 0.6 | 0.060 |
| AG1822 | 18 | 18.016 | 18.043 | 22 | 22.035 | 22.068 | 18 | 22 | 28 | | 26 | 2 | 0.4 | 0.6 | 0.060 |
| AG1824 | 18 | 18.016 | 18.043 | 24 | 24.035 | 24.068 | 18 | 22 | 28 | | 30 | 3 | 0.4 | 0.6 | 0.060 |
| AG2024 | 20 | 20.020 | 20.053 | 24 | 24.035 | 24.068 | 16 | 20 | 25 | | 28 | 2 | 0.4 | 0.6 | 0.060 |
| AG2026 | 20 | 20.020 | 20.053 | 26 | 26.035 | 26.068 | 16 | 20 | 25 | 32 | 32 | 3 | 0.4 | 0.6 | 0.060 |
| AG2227 | 22 | 22.020 | 22.053 | 27 | 27.035 | 27.068 | 18 | 22 | 28 | | 32 | 2.5 | 0.4 | 0.6 | 0.060 |
| AG2228 | 22 | 22.020 | 22.053 | 28 | 28.035 | 28.068 | 15 | 20 | 25 | 30 | 34 | 3 | 0.4 | 0.6 | 0.060 |
| AG2229 | 22 | 22.020 | 22.053 | 29 | 29.035 | 29.068 | 18 | 22 | 28 | 36 | 36 | 3.5 | 0.4 | 0.6 | 0.060 |
| AG2530 | 25 | 25.020 | 25.053 | 30 | 30.035 | 30.068 | 20 | 25 | 32 | | 35 | 2.5 | 0.4 | 0.6 | 0.060 |
| AG2532 | 25 | 25.020 | 25.053 | 32 | 30.043 | 32.082 | 20 | 25 | 32 | | 39 | 3.5 | 0.4 | 0.6 | 0.060 |
| AG2833 | 28 | 28.020 | 28.053 | 33 | 33.043 | 33.082 | 22 | 28 | 36 | | 38 | 2.5 | 0.4 | 0.6 | 0.080 |
| AG2836 | 28 | 28.020 | 28.053 | 36 | 36.043 | 36.082 | 22 | 28 | 36 | | 44 | 4 | 0.4 | 0.6 | 0.080 |
| AG3038 | 30 | 30.020 | 30.053 | 38 | 38.043 | 38.082 | 20 | 25 | 30 | | 46 | 4 | 0.6 | 0.8 | 0.080 |
| AG3238 | 32 | 32.025 | 32.064 | 38 | 38.043 | 38.082 | 20 | 25 | 32 | | 44 | 3 | 0.6 | 0.8 | 0.080 |
| AG3240 | 32 | 32.025 | 32.064 | 40 | 40.043 | 40.082 | 20 | 25 | 30 | 32 | 48 | 4 | 0.6 | 0.8 | 0.080 |
| AG3642 | 36 | 36.025 | 36.064 | 42 | 42.043 | 42.082 | 22 | 28 | 36 | | 48 | 3 | 0.6 | 0.8 | 0.080 |
| AG3645 | 36 | 36.025 | 36.064 | 45 | 45.043 | 45.082 | 22 | 28 | 36 | | 54 | 4.5 | 0.6 | 0.8 | 0.080 |
| AG4046 | 40 | 40.025 | 40.064 | 46 | 46.043 | 46.082 | 25 | 32 | 40 | | 52 | 3 | 0.6 | 0.8 | 0.080 |
| AG4050 | 40 | 40.025 | 40.084 | 50 | 50.043 | 50.082 | 25 | 32 | 40 | | 60 | 5 | 0.7 | 0.8 | 0.080 |
| AG4551 | 45 | 45.025 | 45.064 | 51 | 51.023 | 51.099 | 28 | 36 | 45 | | 57 | 3 | 0.7 | 0.8 | 0.080 |
| AG4556 | 45 | 45.025 | 45.064 | 56 | 56.053 | 56.099 | 28 | 36 | 45 | | 67 | 5.5 | 0.7 | 0.8 | 0.080 |
| AG5056 | 50 | 50.025 | 50.064 | 56 | 56.053 | 56.099 | 32 | 40 | 50 | | 62 | 3 | 0.7 | 0.8 | 0.080 |
| AG5060 | 50 | 50.025 | 50.064 | 60 | 60.053 | 60.099 | 32 | 40 | 50 | | 70 | 5 | 0.7 | 0.8 | 0.080 |



For ordering see following part code examples.

4 ID x 8 OD x 6 long = AG040806 or 12 ID x 15 OD x 20 long = AG121520.

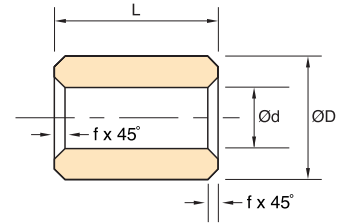
Non-standard lengths can be supplied. If the size you require is not listed please contact our sales dept. We also offer a specialised machining service for low volume non-standard sizes and tolerances.

German metric plain bearings to DIN 1850 (G7/r6 tolerances)

| Part Code | Inner Diameter $\varnothing d$ (G7) | | | Outer Diameter (r6) | | | Basic L (js 13) | | | f max | Concentricity D to d |
|-----------|-------------------------------------|--------|--------|---------------------|--------|--------|-----------------|----|----|-------|----------------------|
| | Basic | Min | Max | Basic | Min | Max | | | | | |
| AD0306 | 3 | 3.002 | 3.012 | 6 | 6.015 | 6.023 | 7 | | | 0.3 | 0.018 |
| AD0408 | 4 | 4.004 | 4.016 | 8 | 8.019 | 8.028 | 10 | | | 0.3 | 0.022 |
| AD0509 | 5 | 5.004 | 5.016 | 9 | 9.019 | 9.028 | 10 | | | 0.3 | 0.022 |
| AD0610 | 6 | 6.004 | 6.016 | 10 | 10.019 | 10.028 | 10 | | | 0.3 | 0.022 |
| AD0612 | 6 | 6.004 | 6.016 | 12 | 12.023 | 12.034 | 12 | | | 0.3 | 0.027 |
| AD0812 | 8 | 8.005 | 8.020 | 12 | 12.023 | 12.034 | 8 | 12 | 15 | 0.3 | 0.027 |
| AD1016 | 10 | 10.005 | 10.020 | 16 | 16.023 | 16.034 | 10 | 15 | 20 | 0.3 | 0.027 |
| AD1218 | 12 | 12.006 | 12.024 | 18 | 18.023 | 17.046 | 10 | 15 | 20 | 0.5 | 0.027 |
| AD1420 | 14 | 14.006 | 14.024 | 20 | 20.028 | 20.041 | 20 | | | 0.5 | 0.033 |
| AD1520 | 15 | 15.006 | 15.024 | 20 | 20.028 | 20.041 | 15 | | | 0.5 | 0.033 |
| AD1520 | 16 | 15.006 | 15.024 | 20 | 20.028 | 20.041 | 25 | | | 0.5 | 0.033 |
| AD1622 | 16 | 16.006 | 16.024 | 22 | 22.028 | 20.041 | 15 | 25 | | 0.5 | 0.033 |
| AD1825 | 18 | 18.007 | 18.024 | 25 | 25.028 | 25.041 | 25 | | | 0.5 | 0.033 |
| AD2026 | 20 | 20.007 | 20.028 | 26 | 27.028 | 26.041 | 20 | 30 | | 0.5 | 0.033 |
| AD2030 | 20 | 20.007 | 20.028 | 30 | 30.028 | 30.041 | 20 | 30 | | 0.5 | 0.033 |
| AD2228 | 22 | 22.007 | 22.028 | 28 | 28.028 | 28.041 | 20 | 30 | | 0.5 | 0.033 |
| AD2532 | 25 | 25.007 | 25.028 | 32 | 32.034 | 32.050 | 25 | 35 | | 0.5 | 0.039 |
| AD2836 | 28 | 28.007 | 28.028 | 36 | 36.034 | 36.050 | 25 | 35 | | 0.5 | 0.039 |
| AD3038 | 30 | 30.007 | 30.028 | 38 | 38.034 | 38.050 | 30 | 40 | | 0.5 | 0.039 |
| AD3040 | 30 | 30.007 | 30.028 | 40 | 40.034 | 40.050 | 30 | 40 | | 0.5 | 0.039 |
| AD3240 | 32 | 32.009 | 32.034 | 40 | 40.034 | 40.050 | 40 | | | 0.8 | 0.039 |
| AD3545 | 35 | 35.009 | 35.034 | 45 | 45.034 | 45.050 | 35 | 45 | | 0.8 | 0.039 |
| AD4050 | 40 | 40.009 | 40.034 | 50 | 50.034 | 50.050 | 50 | | | 0.8 | 0.039 |
| AD4556 | 45 | 45.009 | 45.034 | 50 | 56.041 | 56.060 | 35 | | | 0.8 | 0.046 |
| AD5060 | 50 | 50.009 | 50.034 | 60 | 60.041 | 60.060 | 50 | | | 0.8 | 0.046 |

For ordering see following part code examples.

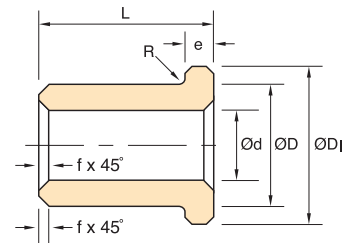
8 ID x 12 OD x 8 long = AD081208 or 14 ID x 20 OD x 20 long = AD142020.



German metric flanged bearings to DIN 1850 (G7/r6 tolerances)

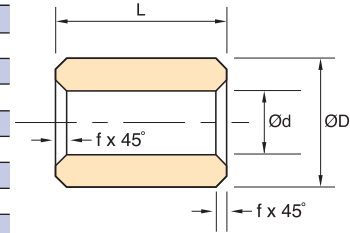
| Part Code | Inner Diameter $\varnothing d$ (G7) | | | Outer Diameter (r6) | | | Basic L (js 13) | $\varnothing D$ TOL | Concentricity D to d | e | f max | r max |
|-----------|-------------------------------------|--------|--------|---------------------|--------|--------|-----------------|-----------------------|----------------------|---|-------|-------|
| | Basic | Min | Max | Basic | Min | Max | | | | | | |
| AE040806 | 4 | 4.004 | 4.016 | 8 | 8.019 | 8.028 | 6 | 10 | 0.022 | 2 | 0.3 | 0.3 |
| AE061010 | 6 | 6.004 | 6.016 | 10 | 10.019 | 10.028 | 10 | 12 | 0.022 | 2 | 0.3 | 0.3 |
| AE081215 | 8 | 8.005 | 8.020 | 12 | 12.013 | 12.034 | 15 | 14 | 0.027 | 2 | 0.3 | 0.3 |
| AE101620 | 10 | 10.005 | 10.020 | 16 | 16.023 | 16.034 | 20 | 20 | 0.027 | 2 | 0.3 | 0.6 |
| AE121620 | 10 | 12.006 | 12.024 | 16 | 16.023 | 16.034 | 20 | 18 | 0.027 | 2 | 0.5 | 0.6 |
| AE142025 | 14 | 14.006 | 14.024 | 20 | 20.028 | 20.041 | 25 | 23 | 0.033 | 3 | 0.5 | 0.6 |
| AE162220 | 16 | 16.008 | 16.024 | 22 | 22.028 | 22.041 | 20 | 28 | 0.033 | 3 | 0.5 | 0.6 |
| AE182430 | 18 | 18.006 | 18.024 | 24 | 24.028 | 24.041 | 30 | 32 | 0.033 | 3 | 0.5 | 0.6 |
| AE202630 | 20 | 20.007 | 20.028 | 26 | 26.028 | 26.041 | 30 | 32 | 0.033 | 3 | 0.5 | 0.6 |

Non-standard lengths can be supplied. If the size you require is not listed please contact our sales dept. We also offer a specialised machining service for low volume non-standard sizes and tolerances.



Inch plain bearings

| Part Code | Inner Diameter Ød | | | Outer Diameter ØD | | | Basic L | | | | | | | | | |
|-----------|-------------------|--------|--------|-------------------|--------|--------|---------|-------|-------|-------|-------|-------|-------|-------|-----|---|
| | Basic | Min. | Max. | Basic | Min. | Max. | 1/8 | 3/16 | 1/4 | 5/16 | 3/8 | 7/16 | 1/2 | 5/8 | 3/4 | 1 |
| AI 0305 | 3/16 | 0.1883 | 0.1888 | 3/16 | 0.3137 | 0.3142 | 1/8 | 3/16 | 1/4 | 5/16 | 3/8 | 7/16 | 1/2 | 5/8 | 3/4 | 1 |
| AI 0406 | 1/4 | 0.2508 | 0.2513 | 3/8 | 0.3767 | 0.3772 | 3/16 | 1/4 | 5/16 | 3/8 | 1/2 | 5/8 | 3/4 | 1 | | |
| AI 0407 | 1/4 | 0.2501 | 0.2506 | 7/16 | 0.4385 | 0.4390 | 1/4 | 5/16 | 3/8 | 1/2 | 5/8 | 3/4 | | | | |
| AI 0408 | 1/4 | 0.2507 | 0.2512 | 1/2 | 0.5020 | 0.5025 | 3/8 | 1/2 | 5/8 | | | | | | | |
| AI 0507 | 5/16 | 0.3132 | 0.3137 | 7/16 | 0.4390 | 0.4395 | 3/8 | 1/2 | 5/8 | 3/4 | 1 | 1 1/8 | 1 1/4 | | | |
| AI 0508 | 5/16 | 0.3132 | 0.3137 | 1/2 | 0.5017 | 0.5022 | 1/4 | 3/8 | 1/2 | 5/8 | 3/4 | | | | | |
| AI 0608 | 3/8 | 0.3757 | 0.3762 | 1/2 | 0.5020 | 0.5025 | 3/8 | 1/2 | 5/8 | 3/4 | 7/8 | 1 | 1 1/8 | 1 1/4 | | |
| AI 0610 | 3/8 | 0.3754 | 0.3759 | 5/8 | 0.6260 | 0.6270 | 3/8 | 1/2 | 5/8 | 3/4 | 7/8 | 1 | | | | |
| AI 0709 | 7/16 | 0.4382 | 0.4387 | 5/8 | 0.5637 | 0.5647 | 3/8 | 1/2 | 5/8 | 3/4 | | | | | | |
| AI 0711 | 7/16 | 0.4383 | 0.4388 | 11/16 | 0.6890 | 0.6900 | 1/2 | 1 1/4 | | | | | | | | |
| AI 0810 | 1/2 | 0.5008 | 0.5013 | 3/4 | 0.6265 | 0.6275 | 3/8 | 1/2 | 5/8 | 3/4 | 7/8 | 1 | 1 1/4 | 1 1/2 | | |
| AI 0811 | 1/2 | 0.5015 | 0.5020 | 11/16 | 0.6895 | 0.6905 | 1/2 | 3/4 | 1 | 1 1/4 | 1 1/2 | | | | | |
| AI 0812 | 1/2 | 0.5015 | 0.5020 | 3/4 | 0.7525 | 0.7535 | 1/2 | 3/4 | 1 | 1 1/4 | 1 1/2 | 2 | | | | |
| AI 0911 | 5/8 | 0.5628 | 0.5638 | 11/16 | 0.6890 | 0.6900 | 1/2 | 3/4 | 1 | 1 1/4 | | | | | | |
| AI 0912 | 5/8 | 0.5640 | 0.5650 | 3/4 | 0.7520 | 0.7530 | 1 | | | | | | | | | |
| AI 1012 | 3/4 | 0.6255 | 0.6265 | 3/4 | 0.7515 | 0.7525 | 1/2 | 3/4 | 1 | 1 1/4 | | | | | | |
| AI 1013 | 3/4 | 0.6265 | 0.6275 | 13/16 | 0.8145 | 0.8155 | 3/4 | 1 | 1 1/4 | | | | | | | |
| AI 1014 | 3/4 | 0.6255 | 0.6265 | 7/8 | 0.8770 | 0.8780 | 1/2 | 3/4 | 1 | 1 1/4 | 1 1/2 | | | | | |
| AI 1115 | 11/16 | 0.6881 | 0.6891 | 15/16 | 0.9393 | 0.9403 | 3/4 | 1 | 1 1/4 | | | | | | | |
| AI 1214 | 3/4 | 0.7505 | 0.7515 | 7/8 | 0.8765 | 0.8775 | 1/2 | 3/4 | 1 | 1 1/4 | 1 1/2 | | | | | |
| AI 1215 | 3/4 | 0.7535 | 0.7545 | 15/16 | 0.9405 | 0.9415 | 3/4 | 1 | | | | | | | | |
| AI 1216 | 3/4 | 0.7508 | 0.7518 | 1 | 1.0020 | 1.0030 | 1/2 | 3/4 | 1 | 1 1/4 | 1 1/2 | | | | | |
| UI 1216 | 3/4 | 0.7522 | 0.7532 | 1 | 1.0025 | 1.0035 | 1 1/2 | 1 3/4 | 2 | | | | | | | |
| AI 1218 | 3/4 | 0.7525 | 0.7535 | 1 1/8 | 1.1280 | 1.1290 | 3/4 | 1 | 1 1/4 | | | | | | | |
| AI 1220 | 3/4 | 0.7525 | 0.7535 | 1 1/4 | 1.2535 | 1.2545 | 1 1/8 | 1 3/8 | 1 1/2 | 2 | | | | | | |
| AI 1416 | 7/8 | 0.8755 | 0.8765 | 1 | 1.0017 | 1.0027 | 3/4 | 1 | 1 1/4 | 1 1/2 | 1 3/4 | | | | | |
| AI 1418 | 7/8 | 0.8757 | 0.8767 | 1 1/8 | 1.1270 | 1.1280 | 3/4 | 1 | 1 1/4 | 1 1/2 | 1 3/4 | | | | | |
| AI 1618 | 1 | 1.0008 | 1.0018 | 1 1/8 | 1.1270 | 1.1280 | 3/4 | 1 | 1 1/4 | 1 1/2 | | | | | | |
| AI 1620 | 1 | 1.0010 | 1.0020 | 1 1/4 | 1.2526 | 1.2536 | 3/4 | 1 | 1 1/4 | 1 1/2 | 1 3/4 | 2 | | | | |
| AI 1624 | 1 | 1.0025 | 1.0035 | 1 1/2 | 1.5040 | 1.5050 | 1 3/8 | 1 1/2 | 1 3/4 | 2 | | | | | | |
| AI 1822 | 1 1/8 | 1.1258 | 1.1268 | 1 3/8 | 1.3770 | 1.3780 | 3/4 | 1 | 1 1/4 | 1 1/2 | 1 3/4 | 2 | | | | |
| AI 2024 | 1 1/4 | 1.2515 | 1.2525 | 1 1/2 | 1.5030 | 1.5040 | 1 | 1 1/4 | 1 1/2 | 1 3/4 | 2 | | | | | |
| AI 2026 | 1 1/4 | 1.2525 | 1.2535 | 1 5/8 | 1.6287 | 1.6302 | 1 | 1 1/4 | 1 1/2 | 1 3/4 | 2 | 2 1/2 | | | | |
| AI 2226 | 1 3/8 | 1.3762 | 1.3772 | 1 3/4 | 1.6275 | 1.6290 | 1 | 1 1/4 | 1 1/2 | 1 3/4 | 2 | | | | | |
| AI 2228 | 1 3/8 | 1.3775 | 1.3785 | 1 3/4 | 1.7545 | 1.7560 | 1 1/2 | | | | | | | | | |
| AI 2428 | 1 1/2 | 1.5013 | 1.5023 | 1 3/4 | 1.7527 | 1.7542 | 1 1/4 | 1 1/2 | 1 3/4 | 2 | 2 1/4 | | | | | |
| AI 2430 | 1 1/2 | 1.5025 | 1.5035 | 1 3/4 | 1.8790 | 1.8805 | 1 1/4 | 1 1/2 | 1 3/4 | 2 | 2 1/4 | | | | | |
| AI 2432 | 1 1/2 | 1.5025 | 1.5035 | 2 | 2.0030 | 2.0045 | 1 1/2 | 2 | 2 1/2 | 3 | | | | | | |
| AI 2633 | 1 5/8 | 1.6285 | 1.6300 | 2 1/8 | 2.0675 | 2.0690 | 1 3/4 | 2 | 2 1/2 | | | | | | | |
| AI 2832 | 1 3/4 | 1.7510 | 1.7525 | 2 | 2.0030 | 2.0045 | 1 1/4 | 1 1/2 | 1 3/4 | 2 | 2 1/4 | | | | | |
| AI 2836 | 1 3/4 | 1.7510 | 1.7525 | 2 1/4 | 2.2530 | 2.2550 | 1 1/2 | 1 3/4 | 2 | 2 1/4 | | | | | | |
| AI 3236 | 2 | 2.0010 | 2.0025 | 2 1/4 | 2.2530 | 2.2550 | 1 1/2 | 1 3/4 | 2 | 2 1/4 | | | | | | |
| AI 3240 | 2 | 2.0010 | 2.0025 | 2 1/2 | 2.5035 | 2.5055 | 1 1/2 | 1 3/4 | 2 | 2 1/4 | 2 1/2 | 3 | | | | |
| AI 3642 | 2 1/4 | 2.2530 | 2.2550 | 2 3/4 | 2.6285 | 2.6305 | 2 1/2 | 3 | | | | | | | | |
| AI 3644 | 2 1/4 | 2.2510 | 2.2530 | 2 3/4 | 2.7540 | 2.7560 | 1 1/2 | 2 | 2 1/4 | | | | | | | |
| AI 4046 | 2 1/2 | 2.5030 | 2.5050 | 2 3/4 | 2.8795 | 2.8815 | 2 1/2 | | | | | | | | | |
| AI 4048 | 2 1/2 | 2.5015 | 2.5035 | 3 | 3.0045 | 3.0065 | 1 1/2 | 2 | 2 1/2 | 3 | | | | | | |
| AI 4856* | 3 | 2.9880 | 3.0000 | 3 1/2 | 3.5020 | 3.5040 | 2 1/2 | 3 | | | | | | | | |
| AI 5664 | 3 1/2 | 3.5015 | 3.5035 | 4 | 4.0015 | 4.0040 | 3 | | | | | | | | | |
| AI 6472 | 4 | 4.001 | 4.0035 | 4 1/2 | 4.5015 | 4.5040 | 4 | | | | | | | | | |



* Non standard chamfer (details on request).

Non-standard lengths can be supplied. If the size you require is not listed please contact our sales dept. We also offer a specialised machining service for low volume non-standard sizes and tolerances.

For tolerances on inch bearings see page 23.

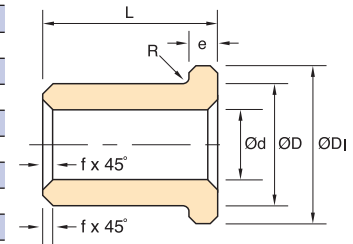
WHEN CHECKING YOUR ORDER ACKNOWLEDGEMENT

Please use the following table for conversion from the fraction (length) to the two digit suffix of the part code.
Example: AI030504 (1/4 length)

| | | |
|------------|------------|------------|
| 03 = 3/16 | 04 = 1/4 | 05 = 5/16 |
| 06 = 3/8 | 08 = 1/2 | 09 = 3/8 |
| 10 = 3/4 | 12 = 3/4 | 14 = 7/8 |
| 16 = 1 | 18 = 1 1/4 | 20 = 1 1/2 |
| 22 = 1 1/2 | 24 = 1 3/4 | 26 = 1 3/4 |
| 28 = 1 3/4 | 30 = 1 3/4 | 32 = 2 |
| 36 = 2 1/4 | 40 = 2 1/2 | 48 = 3 |

Inch flanged bearings

| Part Code | Inner Diameter Ød | | | Outer Diameter ØD | | | ØD1 | e | Basic L | | | |
|-----------|-------------------|--------|--------|-------------------|--------|--------|--------|-------|---------|-------|-------|-------|
| | Basic | Min. | Max. | Basic | Min. | Max. | | | | | | |
| AJ 0305 | 3/16 | 0.1880 | 0.1885 | 3/16 | 0.3137 | 0.3142 | 0.3750 | 0.062 | 1/4 | 3/8 | 1/2 | 3/4 |
| AJ 0406 | 1/4 | 0.2505 | 0.2510 | 3/8 | 0.3767 | 0.3772 | 0.5000 | 0.062 | 1/4 | 3/8 | 1/2 | 3/4 |
| AJ 0508 | 5/16 | 0.3130 | 0.3135 | 1/2 | 0.5020 | 0.5025 | 0.6250 | 0.062 | 1/4 | 3/8 | 1/2 | 3/4 |
| AJ 0509 | 5/16 | 0.3120 | 0.3125 | 5/16 | 0.5640 | 0.5650 | 0.6562 | 0.125 | 3/8 | 1/2 | | |
| AJ 0608 | 3/8 | 0.3755 | 0.3760 | 1/2 | 0.5015 | 0.5020 | 0.6250 | 0.062 | 1/2 | 3/4 | | |
| UJ 0608 | 3/8 | 0.3755 | 0.3760 | 1/2 | 0.5020 | 0.5025 | 0.6250 | 0.140 | 1/2 | 3/4 | 7/8 | |
| AJ 0609 | 3/8 | 0.3747 | 0.3752 | 5/16 | 0.5640 | 0.5650 | 0.7500 | 0.062 | 1/2 | | | |
| AJ 0610 | 3/8 | 0.3757 | 0.3762 | 3/8 | 0.6265 | 0.6275 | 0.7500 | 0.125 | 3/8 | 1/2 | 3/4 | 1 |
| AJ 0709 | 7/16 | 0.4401 | 0.4406 | 5/16 | 0.5641 | 0.5651 | 0.7500 | 0.062 | 1/2 | 3/4 | | |
| AJ 0810 | 1/2 | 0.5000 | 0.5005 | 3/4 | 0.6265 | 0.6275 | 0.7500 | 0.098 | 1/2 | 1 | | |
| AJ 0812 | 1/2 | 0.5008 | 0.5013 | 3/4 | 0.7517 | 0.7527 | 1.0000 | 0.125 | 1/2 | 3/4 | 1 | 1 1/2 |
| AJ 1012 | 5/8 | 0.6275 | 0.6285 | 3/4 | 0.7525 | 0.7535 | 1.1250 | 0.094 | 1/2 | 1 | 1 1/2 | 2 |
| AJ 1014 | 5/8 | 0.6255 | 0.6265 | 7/8 | 0.8770 | 0.8770 | 1.2500 | 0.125 | 1/2 | 3/4 | 1 | 1 1/2 |
| AJ 1216 | 3/4 | 0.7508 | 0.7518 | 1 | 1.0020 | 1.0030 | 1.3750 | 0.125 | 3/4 | 1 | 1 1/4 | 1 1/2 |
| AJ 1416 | 7/8 | 0.8755 | 0.8765 | 1 | 1.0017 | 1.0027 | 1.2500 | 0.125 | 1 | | | |
| AJ 1418 | 7/8 | 0.8757 | 0.8767 | 1 1/8 | 1.1270 | 1.1280 | 1.6250 | 0.125 | 3/4 | 1 | 1 1/4 | 1 1/2 |
| AJ 1620 | 1 | 1.0010 | 1.0020 | 1 1/4 | 1.2526 | 1.2536 | 1.7500 | 0.125 | 1 | 1 1/4 | 1 1/2 | 2 |
| UJ 1620 | 1 | 1.0010 | 1.0020 | 1 1/4 | 1.2520 | 1.2530 | 1.5000 | 0.125 | 3/4 | 1 | 1 1/4 | 1 1/2 |
| AJ 1822 | 1 1/8 | 1.1260 | 1.1270 | 1 1/8 | 1.3776 | 1.3786 | 1.8750 | 0.125 | 1 | 1 1/4 | 1 1/2 | 1 3/4 |
| AJ 2024 | 1 1/4 | 1.2510 | 1.2520 | 1 1/2 | 1.5030 | 1.5040 | 1.8750 | 0.125 | 3/4 | 1 | 1 1/4 | 1 1/2 |
| AJ 2026 | 1 1/4 | 1.2516 | 1.2526 | 1 1/8 | 1.6280 | 1.6295 | 2.0000 | 0.125 | 1 | 1 1/4 | 1 1/2 | 1 3/4 |
| AJ 2226 | 1 1/2 | 1.3745 | 1.3755 | 1 1/8 | 1.6270 | 1.6285 | 1.8750 | 0.125 | 3/4 | 1 1/4 | | |
| AJ 2428 | 1 1/2 | 1.5016 | 1.5026 | 1 3/4 | 1.7510 | 1.7525 | 1.8700 | 0.120 | 1 1/2 | 1 3/4 | | |
| AJ 2430 | 1 1/2 | 1.5016 | 1.5026 | 1 1/8 | 1.8780 | 1.8795 | 2.5000 | 0.188 | 1 1/4 | 1 1/2 | 1 3/4 | 2 |



Non-standard lengths can be supplied. If the size you require is not listed please contact our sales dept. We also offer a specialised machining service for low volume non-standard sizes and tolerances.

For tolerances on inch bearings see page 23.

| | | |
|------------|------------|------------|
| 03 = 3/16 | 04 = 1/4 | 05 = 5/16 |
| 06 = 3/8 | 08 = 1/2 | 09 = 3/4 |
| 10 = 5/8 | 12 = 3/4 | 14 = 7/8 |
| 16 = 1 | 18 = 1 1/8 | 20 = 1 1/4 |
| 22 = 1 1/8 | 24 = 1 1/2 | 26 = 1 3/4 |
| 28 = 1 3/4 | 30 = 2 | 32 = 2 1/4 |
| 36 = 2 1/2 | 40 = 2 3/4 | 48 = 3 |

WHEN CHECKING YOUR ORDER ACKNOWLEDGEMENT

Please use the following table for conversion from the fraction (length) to the two digit suffix of the part code. Example: AI030504 (3/16 length)

Inch thrust washers

| Part Code | Inner Diameter Ød | | | Outer Diameter ØD | | | Length e | | |
|-----------|-------------------|--------|--------|-------------------|--------|--------|----------|-------|--------|
| | Basic | Min. | Max. | Basic | Min. | Max. | Basic | Min. | Max. |
| AW 061002 | 3/8 | 0.3750 | 0.3800 | 3/8 | 0.6230 | 0.6280 | 3/8 | 0.122 | 0.1280 |
| AW 081402 | 1/2 | 0.5050 | 0.5100 | 1/2 | 0.8750 | 0.8800 | 1/2 | 0.122 | 0.1280 |
| AW 091801 | 5/8 | 0.5312 | 0.5412 | 1 1/8 | 1.1200 | 1.1250 | 5/8 | 0.059 | 0.0655 |
| AW 112002 | 7/8 | 0.6562 | 0.6662 | 1 1/4 | 1.2450 | 1.2500 | 7/8 | 0.090 | 0.0968 |
| AW 132402 | 1 | 0.7812 | 0.7912 | 1 1/2 | 1.4950 | 1.5000 | 1 | 0.122 | 0.1280 |
| AW 142402 | 1 1/8 | 0.8750 | 0.8800 | 1 3/4 | 1.4950 | 1.5000 | 1 1/8 | 0.122 | 0.1280 |
| AW 143002 | 1 1/4 | 0.8780 | 0.8830 | 1 7/8 | 1.8660 | 1.8710 | 1 1/4 | 0.122 | 0.1280 |
| AW 162802 | 1 1/2 | 1.0100 | 1.0150 | 2 | 1.7710 | 1.7810 | 1 1/2 | 0.122 | 0.1280 |
| AW 163202 | 1 3/4 | 1.0320 | 1.0420 | 2 1/8 | 1.9950 | 2.0000 | 1 3/4 | 0.120 | 0.1300 |
| AW 203002 | 2 | 1.2490 | 1.2540 | 2 1/2 | 1.8750 | 1.8800 | 2 | 0.120 | 0.1300 |
| AW 204802 | 2 1/4 | 1.2490 | 1.2540 | 3 | 2.9980 | 3.0030 | 2 1/4 | 0.120 | 0.1300 |
| AW 204804 | 2 1/2 | 1.2490 | 1.2540 | 3 1/2 | 2.9980 | 3.0030 | 2 1/2 | 0.245 | 0.2550 |
| AW 234002 | 2 3/4 | 1.4062 | 1.4162 | 4 | 2.4950 | 2.5000 | 2 3/4 | 0.151 | 0.1613 |
| AW 263802 | 3 | 1.6240 | 1.6260 | 4 1/2 | 2.3740 | 2.3790 | 3 | 0.120 | 0.1300 |
| AW 365602 | 3 1/2 | 2.2480 | 2.2520 | 5 1/2 | 3.4980 | 3.5030 | 3 1/2 | 0.120 | 0.1300 |



Non-standard lengths can be supplied. If the size you require is not listed please contact our sales dept. We also offer a specialised machining service for low volume non-standard sizes and tolerances.

Applications:

Provides self-lubricating thrust surfaces especially in applications where assembly does not lend itself to the use of a flanged bearing. Alternatively can provide a second thrust surface at the non-flanged end of a bearing.

In thrust applications PV should not exceed 0.36 N/mm² x m/s. Surface velocity (m/s) calculated on mean diameter of thrust face and pressure (N/mm²) on total thrust area.

We also offer specialised machining service for special sizes of bearings according to customers specific requirements.

Bowman International Limited reserve the right to change specifications without prior notice E & OE

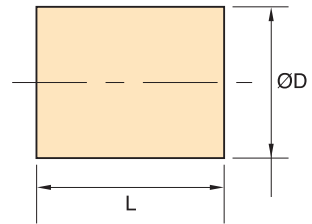
BOWMAN INTERNATIONAL LIMITED

10 Isis Court, Wyndyke Furlong, Abingdon Business Park, Abingdon, Oxfordshire, OX14 1DZ England

Tel +44 (0)1235 815816 Fax +44 (0)1235 811234 E-mail enquiries@bowman.co.uk Website www.bowman.co.uk

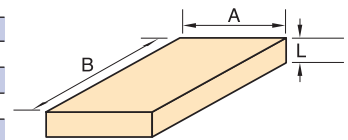
Solid bars

| Part Code | Diameter O D/mm | Diameter O D/inch | Length L/mm | Length L/inch | Part Code | Diameter O D/mm | Diameter O D/inch | Length L/mm | Length L/inch |
|--------------|-----------------|-------------------|-------------|---------------|--------------|-----------------|-------------------|-------------|---------------|
| AB 004020 | 6.35 | ¼" | 31.75 | 1 ¼" | AB 000026104 | 41.27 | 1 ⅝" | 165 | 6 ½" |
| AB 000004032 | 6.35 | ¼" | 50.8 | 2" | AB 002844 | 44.45 | 1 ¾" | 69.85 | 2 ¾" |
| AB 000006048 | 9.52 | ⅜" | 76.2 | 3" | AB 000028104 | 44.45 | 1 ¾" | 165 | 6 ½" |
| AB 000624 | 9.52 | ⅜" | 381 | 1 ½" | AB 003868 | 47.63 | 1 ⅞" | 108 | 4 ¼" |
| AB 000824 | 12.7 | ½" | 38.1 | 1 ½" | AB 003244 | 50.8 | 2" | 69.85 | 2 ¾" |
| AB 000008104 | 12.7 | ½" | 165 | 6 ½" | AB 000032104 | 50.8 | 2" | 165 | 6 ½" |
| AB 000010104 | 15.88 | ⅝" | 165 | 6 ½" | AB 003468 | 53.98 | 2 ⅞" | 108 | 4 ¼" |
| AB 001032 | 15.88 | ⅝" | 50.8 | 2" | AB 000036104 | 57.15 | 2 ¼" | 165 | 6 ½" |
| AB 001232 | 19.05 | ¾" | 50.8 | 2" | AB 000038104 | 60.32 | 2 ⅝" | 165 | 6 ½" |
| AB 000012104 | 19.05 | ¾" | 165 | 6 ½" | AB 000040104 | 63.5 | 2 ½" | 165 | 6 ½" |
| AB 000014104 | 22.22 | ⅞" | 165 | 6 ½" | AB 004268 | 66.68 | 2 ⅝" | 108 | 4 ¼" |
| AB 001432 | 22.22 | ⅞" | 50.8 | 2" | AB 000048104 | 76.2 | 3" | 165 | 6 ½" |
| AB 001640 | 25.4 | 1" | 63.5 | 2 ½" | AB 005068 | 79.38 | 3 ¼" | 108 | 4 ¼" |
| AB 000016104 | 25.4 | 1" | 165 | 6 ½" | AB 000052104 | 82.55 | 3 ¼" | 165 | 6 ½" |
| AB 001868 | 28.57 | 1 ⅛" | 108 | 4 ¼" | AB 000056104 | 88.9 | 3 ½" | 165 | 6 ½" |
| AB 000018104 | 28.57 | 1 ⅛" | 165 | 6 ½" | AB 005868 | 92.08 | 3 ⅝" | 108 | 4 ¼" |
| AB 002040 | 31.75 | 1 ¼" | 63.5 | 2 ½" | AB 000064104 | 101.6 | 4" | 165 | 6 ½" |
| AB 000020104 | 31.75 | 1 ¼" | 165 | 6 ½" | AB 006668 | 104.78 | 4 ⅛" | 108 | 4 ¼" |
| AB 002244 | 34.92 | 1 ⅜" | 69.85 | 2 ¾" | AB 000072104 | 114.3 | 4 ½" | 165 | 6 ½" |
| AB 002268 | 34.92 | 1 ⅜" | 108 | 4 ¼" | AB 000080104 | 127 | 5" | 165 | 6 ½" |
| AB 000022104 | 34.92 | 1 ⅜" | 165 | 6 ½" | AB 000088104 | 139.7 | 5 ½" | 165 | 6 ½" |
| AB 000024104 | 38.1 | 1 ½" | 165 | 6 ½" | AB 000096104 | 152.4 | 6" | 165 | 6 ½" |
| AB 002644 | 41.27 | 1 ⅝" | 69.85 | 2 ¾" | AB 000112104 | 177.8 | 7" | 165 | 6 ½" |
| AB 002668 | 41.27 | 1 ⅝" | 108 | 4 ¼" | AB 000128104 | 203.2 | 8" | 165 | 6 ½" |



Plates

| Part Code | A (Width) | | B (Width) | | L (Thickness) | | Part Code | A (Width) | | B (Width) | | L (Thickness) | |
|-----------|-----------|------|-----------|------|---------------|------|-----------|-----------|------|-----------|------|---------------|------|
| | mm | inch | mm | inch | mm | inch | | mm | inch | mm | inch | mm | inch |
| AP 010413 | 25.4 | 1" | 108 | 4 ¼" | 3.2 | ¼" | AP 050863 | 127 | 5" | 203 | 8" | 15.9 | ⅝" |
| AP 010425 | 25.4 | 1" | 108 | 4 ¼" | 6.35 | ¼" | AP 061225 | 152 | 6" | 305 | 12" | 6.35 | ¼" |
| AP 010450 | 25.4 | 1" | 108 | 4 ¼" | 12.7 | ½" | AP 061238 | 152 | 6" | 305 | 12" | 9.5 | ⅜" |
| AP 010475 | 25.4 | 1" | 108 | 4 ¼" | 19.05 | ¾" | AP 061250 | 152 | 6" | 305 | 12" | 12.7 | ½" |
| AP 050825 | 127 | 5" | 203 | 8" | 6.35 | ¼" | AP 101025 | 254 | 10" | 254 | 10" | 6.35 | ¼" |
| AP 050838 | 127 | 5" | 203 | 8" | 9.5 | ⅜" | AP 101038 | 254 | 10" | 254 | 10" | 9.5 | ⅜" |
| AP 050850 | 127 | 5" | 203 | 8" | 12.7 | ½" | AP 101050 | 254 | 10" | 254 | 10" | 12.7 | ½" |



We also offer specialised machining service for special sizes of bearings according to customers specific requirements

Metric Spherical Bearings

Reference

| Bore | Spherical Diameter | Length |
|------|--------------------|--------|
| 3.18 | 8 | 6 |
| 3.5 | 8 | 6 |
| 4 | 8 | 6 |
| 4 | 9 | 5 |
| 4 | 10 | 7 |
| 4 | 12 | 8 |
| 4.5 | 9 | 5 |
| 4.5 | 12 | 8 |
| 5 | 10 | 7 |
| 5 | 12 | 8 |
| 5 | 12 | 9 |
| 5 | 13 | 8 |
| 5 | 13 | 9 |
| 6 | 10 | 4 |
| 6 | 12 | 8 |
| 6 | 12 | 9 |
| 6 | 13 | 8 |
| 6 | 13 | 9 |
| 7 | 13 | 8 |
| 7 | 14 | 10 |
| 7 | 16 | 11 |
| 8 | 13.5 | 9 |
| 8 | 14 | 10 |
| 8 | 16 | 11 |
| 9 | 16 | 12 |

Metric Spherical Bearings with Collars

Reference

| Bore | Spherical Dia | Collar Dia | Collar Length |
|------|---------------|------------|---------------|
| 4 | 9 | 6 | 2 |
| 5 | 12 | 9 | 3 |
| 6 | 12 | 9 | 2 |

All spherical bearings can be supplied in various grades of sintered bronze and iron, with lubricants to suit different applications. Spherical bearings can be supplied with one or two collars. Various bore tolerances and non-standard lengths can be supplied. Imperial sizes also available.



Bowman International Limited reserve the right to change specifications without prior notice E & OE

oilite[®]

BEARINGS



Technical Data



Technical information

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.

To prevent possible seizures with stainless steel, hard-chromium and nickel 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.

Always use a fitting pin and 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 $R_a = 0.25 \mu\text{m}$. (Refer to fitting data page).

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 on the number below.

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. Wash in oil if storage conditions are in doubt.

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 60°C to 70°C for 10 to 15 minutes and then cool in cold oil.

Machining

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

For customers who prefer to machine OILITE® materials themselves, please contact our technical department and request our machining recommendations brochure or download the document from www.oilitebearings.com.

Oilite® materials

| Material | | Copper (Cu) % | Iron (Fe) % | Carbon (C) % | Tin (Sn) % | Other Elements Max % | Open Porosity P Min % | Oil Content Min % | Radial Crushing Strength K Min N/mm ² | Density P Nominal g/cc | Static Load Max N/mm ² | PV Factor N/mm ² x m/s | Dynamic Load max N/mm ² | V max m/s |
|-------------------|--------|------------------|----------------|-----------------|---------------|----------------------------|-----------------------------|-------------------------|---|------------------------------|--|---|--|--------------|
| Oilite® | MB01-1 | Balance | 1.0 Max | <0.3 | 9.0 - 11.0 | 2.0 | 27 | 24 | 120 | 6.0 | 35 | 1.8 | 10 | 6.0 |
| | MB01-2 | Balance | 1.0 Max | <0.3 | 9.0 - 11.0 | 2.0 | 22 | 20 | 160 | 6.6 | 50 | 1.8 | 14 | 5.0 |
| | MB01-3 | Balance | 1.0 Max | <0.3 | 9.0 - 11.0 | 2.0 | 20 | 18 | 180 | 7.0 | 65 | 1.8 | 18 | 5.5 |
| Iron Oilite® | MB02-3 | Nil | Balance | <0.3 | Nil | 2.0 | 17 | 15 | 220 | 6.2 | 90 | 1.4 | 20 | 2.0 |
| Super Oilite® | | 18.0 - 22.0 | Balance | <0.3 | Nil | 2.0 | 21 | 19 | 275 | 6.0 | 120 | 1.3 | 28 | 1.0 |
| Super Oilite® 16 | | 18.0 - 22.0 | Balance | 0.6 - 1.0 | Nil | 2.0 | 17 | 15 | 410 | 6.2 | 300 | 2.6 | 55 | 0.2 |
| Super Oilite® 900 | MB04-1 | 24.0 - 26.0 | Balance | Nil | Nil | 2.0 | 22 | 20 | 275 | 6.0 | 120 | 1.4 | 28 | 1.0 |

MB01-1 Non standard available on request.

MB01-2 All products unless otherwise stated.

MB01-3 Applicable to DIN standard.

Other bearing materials for special applications are also available

- NOTES:
- Density, oil content and open porosity determined according to BS5600 Pt 3 Section 3.2 1988
 - Radial crushing strength, according to BS ENISO 2739:- 1998
 - PV factor = Pressure (N/mm²) x bearing surface velocity (m/s) where pressure = load (N) ÷ Projected area (d x L) and d = inside diameter (mm).
 - Bars, Cored Bars and Plates may contain up to 1% C.

Nearest equivalent specifications

| MATERIAL | MB Grade | ISO 5755/1 1987 | UK | France | Germany | U.S.A. | | |
|----------|----------|-----------------------|---|--------------------------------|-------------------------|-----------------------|--------|----------------------|
| | | | BS5600 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® | MB01-1 | P4011Z | P4011Z | FU-E10-60 | | CT-1000-K19 | 840 | B438 Grd 1 Type 1 |
| Bronze | MB01-2 | P4012Z | P4012Z | FU-E10-64 | Sint A50 | CT-1000-K26 | 841 | B438 Grd 1 Type 2 |
| | MB01-3 | P4013Z | P4013Z | FU-E10-68 | Sint B50 | CT-1000-K37 | 842 | B438 Grd 1 Type 3 |

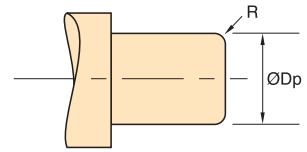
Lubricants and additives

The standard stock range of Oilite® bearings is impregnated with a mineral oil SAE 30; all machined Oilite® bearings and plates are supplied fully impregnated after machining. A wide range of lubricants are 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. Special additives are also available for use with various shaft materials and finishes.

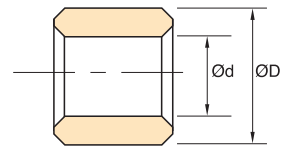
It is highly recommended that additives are employed when using stainless steel shafts. Please contact our technical department for advice on specific applications.

Metric plain bearings to ISO 2795 – fitting data

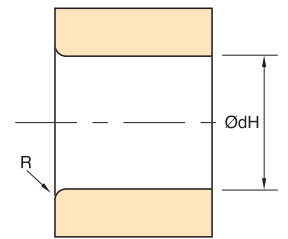
| Part Code | Basic Sizes | | ∅ dH (H7) | | ∅ Dp (m5) | | ∅ dF (H7) | | ∅ Ds (f7) | |
|-----------|-------------|-----|-----------|--------|-----------|--------|-----------|--------|-----------|--------|
| | ∅ d | ∅ D | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. |
| AM 0205 | 2 | 5 | 5.000 | 5.012 | 2.002 | 2.006 | 2.000 | 2.010 | 1.984 | 1.994 |
| AM 0305 | 3 | 5 | 5.000 | 5.012 | 3.002 | 3.006 | 3.000 | 3.010 | 2.984 | 2.994 |
| AM 0306 | 3 | 6 | 6.000 | 6.012 | 3.002 | 3.006 | 3.000 | 3.010 | 2.984 | 2.994 |
| AM 0407 | 4 | 7 | 7.000 | 7.015 | 4.004 | 4.009 | 4.000 | 4.012 | 3.978 | 3.990 |
| AM 0408 | 4 | 8 | 8.000 | 8.015 | 4.004 | 4.009 | 4.000 | 4.012 | 3.978 | 3.990 |
| AM 0508 | 5 | 8 | 8.000 | 8.015 | 5.004 | 5.009 | 5.000 | 5.012 | 4.978 | 4.990 |
| AM 0509 | 5 | 9 | 9.000 | 9.015 | 5.004 | 5.009 | 5.000 | 5.012 | 4.978 | 4.990 |
| AM 0609 | 6 | 9 | 9.000 | 9.015 | 6.004 | 6.009 | 6.000 | 6.012 | 5.978 | 5.990 |
| AM 0610 | 6 | 10 | 10.000 | 10.015 | 6.004 | 6.009 | 6.000 | 6.012 | 5.978 | 5.990 |
| AM 0710 | 7 | 10 | 10.000 | 10.015 | 7.005 | 7.012 | 7.000 | 7.015 | 6.792 | 6.987 |
| AM 0711 | 7 | 11 | 11.000 | 11.018 | 7.005 | 7.012 | 7.000 | 7.015 | 6.972 | 6.987 |
| AM 0811 | 8 | 11 | 11.000 | 11.018 | 8.006 | 8.012 | 8.000 | 8.015 | 7.972 | 7.987 |
| AM 0812 | 8 | 12 | 12.000 | 12.018 | 8.006 | 8.012 | 8.000 | 8.015 | 7.972 | 7.987 |
| AM 0814 | 8 | 14 | 14.000 | 14.018 | 8.006 | 8.012 | 8.000 | 8.015 | 7.972 | 7.987 |
| AM 0912 | 9 | 12 | 12.000 | 12.018 | 9.006 | 9.012 | 9.000 | 9.015 | 8.972 | 8.987 |
| AM 0914 | 9 | 14 | 14.000 | 14.018 | 9.006 | 9.012 | 9.000 | 9.015 | 8.972 | 8.987 |
| AM 1013 | 10 | 13 | 13.000 | 13.018 | 10.006 | 10.012 | 10.000 | 10.015 | 9.972 | 9.987 |
| AM 1014 | 10 | 14 | 14.000 | 14.018 | 10.006 | 10.012 | 10.000 | 10.015 | 9.972 | 9.987 |
| AM 1015 | 10 | 15 | 15.000 | 15.018 | 10.006 | 10.012 | 10.000 | 10.015 | 9.972 | 9.987 |
| AM 1016 | 10 | 16 | 16.000 | 16.018 | 10.006 | 10.012 | 10.000 | 10.015 | 9.972 | 9.987 |
| AM 1215 | 12 | 15 | 15.000 | 15.018 | 12.007 | 12.015 | 12.000 | 12.018 | 11.966 | 11.984 |
| AM 1216 | 12 | 16 | 16.000 | 16.018 | 12.007 | 12.015 | 12.000 | 12.018 | 11.966 | 11.984 |
| AM 1218 | 12 | 18 | 18.000 | 18.018 | 12.007 | 12.015 | 12.000 | 12.018 | 11.966 | 11.984 |
| AM 1418 | 14 | 18 | 18.000 | 18.018 | 14.007 | 14.015 | 14.000 | 14.018 | 13.966 | 13.984 |
| AM 1420 | 14 | 20 | 20.000 | 20.021 | 14.007 | 14.015 | 14.000 | 14.018 | 13.966 | 13.984 |
| AM 1519 | 15 | 19 | 19.000 | 19.021 | 15.007 | 15.015 | 15.000 | 15.018 | 14.966 | 14.984 |
| AM 1521 | 15 | 21 | 21.000 | 21.021 | 15.007 | 15.015 | 15.000 | 15.018 | 14.966 | 14.984 |
| AM 1620 | 16 | 20 | 20.000 | 20.021 | 16.007 | 16.015 | 16.000 | 16.018 | 15.966 | 15.984 |
| AM 1622 | 16 | 22 | 22.000 | 22.021 | 16.007 | 16.015 | 16.000 | 16.018 | 15.966 | 15.984 |
| AM 1822 | 18 | 22 | 22.000 | 22.021 | 18.007 | 18.015 | 18.000 | 18.018 | 17.966 | 17.984 |
| AM 1824 | 18 | 24 | 24.000 | 24.021 | 18.007 | 18.015 | 18.000 | 18.018 | 17.966 | 17.984 |
| AM 1825 | 18 | 25 | 25.000 | 25.021 | 18.007 | 18.015 | 18.000 | 18.018 | 17.966 | 17.984 |
| AM 2024 | 20 | 24 | 24.000 | 24.021 | 20.008 | 20.017 | 20.000 | 20.021 | 19.959 | 19.980 |
| AM 2025 | 20 | 25 | 25.000 | 25.021 | 20.008 | 20.017 | 20.000 | 20.021 | 19.959 | 19.980 |
| AM 2026 | 20 | 26 | 26.000 | 26.021 | 20.008 | 20.017 | 20.000 | 20.021 | 19.959 | 19.980 |
| AM 2028 | 20 | 28 | 28.000 | 28.021 | 20.008 | 20.017 | 20.000 | 20.021 | 19.959 | 19.980 |
| AM 2227 | 22 | 27 | 27.000 | 27.021 | 22.008 | 22.017 | 22.000 | 22.021 | 21.959 | 21.980 |
| AM 2228 | 22 | 28 | 28.000 | 28.021 | 22.008 | 22.017 | 22.000 | 22.021 | 21.959 | 21.980 |
| AM 2232 | 22 | 32 | 32.000 | 32.025 | 22.008 | 22.017 | 22.000 | 22.021 | 21.959 | 21.980 |
| AM 2530 | 25 | 30 | 30.000 | 30.021 | 25.008 | 25.017 | 25.000 | 25.021 | 24.959 | 24.980 |
| AM 2532 | 25 | 32 | 32.000 | 32.025 | 25.008 | 25.017 | 25.000 | 25.021 | 24.959 | 24.980 |
| AM 2535 | 25 | 35 | 35.000 | 35.025 | 25.008 | 25.017 | 25.000 | 25.021 | 24.959 | 24.980 |
| AM 2836 | 28 | 36 | 36.000 | 36.025 | 28.008 | 28.017 | 28.000 | 28.021 | 27.959 | 27.980 |
| AM 3035 | 30 | 35 | 35.000 | 35.025 | 30.008 | 30.017 | 30.000 | 30.021 | 29.959 | 29.980 |
| AM 3038 | 30 | 38 | 38.000 | 38.025 | 30.008 | 30.017 | 30.000 | 30.021 | 29.959 | 29.980 |
| AM 3040 | 30 | 40 | 40.000 | 40.025 | 30.008 | 30.017 | 30.000 | 30.021 | 29.959 | 29.980 |
| AM 3238 | 32 | 38 | 38.000 | 38.025 | 32.009 | 32.020 | 32.000 | 32.025 | 31.950 | 31.975 |
| AM 3240 | 32 | 40 | 40.000 | 40.025 | 32.009 | 32.020 | 32.000 | 32.025 | 31.950 | 31.975 |
| AM 3541 | 35 | 41 | 41.000 | 41.025 | 35.009 | 35.020 | 35.000 | 35.025 | 34.950 | 34.975 |
| AM 3544 | 35 | 44 | 44.000 | 44.025 | 35.009 | 35.020 | 35.000 | 35.025 | 34.950 | 34.975 |
| AM 3545 | 35 | 45 | 45.000 | 45.025 | 35.009 | 35.020 | 35.000 | 35.025 | 34.950 | 34.975 |
| AM 3642 | 36 | 42 | 42.000 | 42.025 | 36.009 | 36.020 | 36.000 | 36.025 | 35.950 | 35.975 |
| AM 3645 | 36 | 45 | 45.000 | 45.025 | 36.009 | 36.020 | 36.000 | 36.025 | 35.950 | 35.975 |
| AM 3844 | 38 | 44 | 44.000 | 44.025 | 38.009 | 38.020 | 38.000 | 38.025 | 37.950 | 37.975 |
| AM 3848 | 38 | 48 | 48.000 | 48.025 | 38.009 | 38.020 | 38.000 | 38.025 | 37.950 | 37.975 |
| AM 4046 | 40 | 46 | 46.000 | 46.025 | 40.009 | 40.020 | 40.000 | 40.025 | 39.950 | 39.975 |
| AM 4050 | 40 | 50 | 50.000 | 50.025 | 40.009 | 40.020 | 40.000 | 40.025 | 39.950 | 39.975 |
| AM 4248 | 42 | 48 | 48.000 | 48.025 | 42.009 | 42.020 | 42.000 | 42.025 | 41.950 | 41.975 |
| AM 4252 | 42 | 52 | 52.000 | 52.030 | 42.009 | 42.020 | 42.000 | 42.039 | 41.950 | 41.975 |
| AM 4551 | 42 | 51 | 51.000 | 51.030 | 45.009 | 45.020 | 45.000 | 45.039 | 41.950 | 41.975 |
| AM 4555 | 45 | 55 | 55.000 | 55.030 | 45.009 | 45.020 | 45.000 | 45.039 | 44.950 | 44.975 |
| AM 4556 | 45 | 56 | 56.000 | 56.030 | 45.009 | 45.020 | 45.000 | 45.039 | 44.950 | 44.975 |
| AM 4855 | 48 | 55 | 55.000 | 55.030 | 48.009 | 48.020 | 48.000 | 48.039 | 47.950 | 47.975 |
| AM 4858 | 48 | 58 | 58.000 | 58.030 | 48.009 | 48.020 | 48.000 | 48.039 | 47.950 | 47.975 |
| AM 5060 | 50 | 60 | 60.000 | 60.030 | 50.009 | 50.020 | 50.000 | 50.039 | 49.950 | 49.975 |
| AM 5563 | 55 | 63 | 63.000 | 63.030 | 55.010 | 55.024 | 55.000 | 55.046 | 54.940 | 54.970 |
| AM 5565 | 55 | 65 | 65.000 | 65.030 | 55.010 | 55.024 | 55.000 | 55.046 | 54.940 | 54.970 |
| AM 6068 | 60 | 68 | 68.000 | 68.030 | 60.010 | 60.024 | 60.000 | 60.046 | 59.940 | 59.970 |
| AM 6070 | 60 | 70 | 70.000 | 70.030 | 60.010 | 60.024 | 60.000 | 60.046 | 59.940 | 59.970 |
| AM 6072 | 60 | 72 | 72.000 | 72.030 | 60.010 | 60.024 | 60.000 | 60.046 | 59.940 | 59.970 |
| AM 6370 | 63 | 70 | 70.000 | 70.030 | 63.010 | 63.024 | 63.000 | 63.046 | 62.940 | 62.970 |



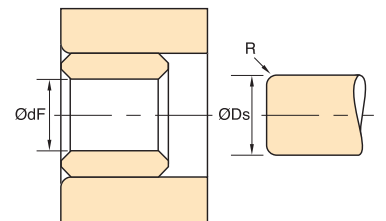
Fitting Pin



Free Bush



Housing



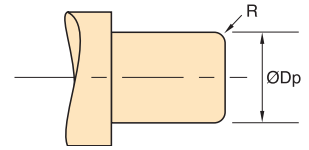
Fitted Bush

Shaft

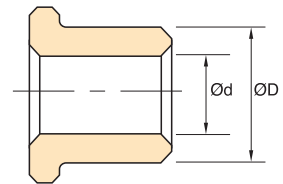
Bowman International Limited reserve the right to change specifications without prior notice E & OE

Metric flanged bearings to ISO 2795 – fitting data

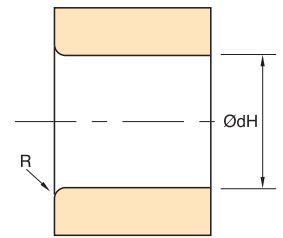
| Part Code | Basic Sizes | | Ø dH (H7) | | Ø Dp (m5) | | Ø dF (H7) | | Ø Ds (f7) | |
|-----------|-------------|-----|-----------|--------|-----------|--------|-----------|--------|-----------|--------|
| | Ø d | Ø D | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. |
| AL 0205 | 02 | 05 | 5.000 | 5.012 | 2.002 | 2.006 | 2.000 | 2.010 | 1.984 | 1.994 |
| AL 0306 | 03 | 06 | 6.000 | 6.012 | 3.002 | 3.006 | 3.000 | 3.010 | 2.984 | 2.994 |
| AL 0408 | 04 | 08 | 8.000 | 8.015 | 4.004 | 4.009 | 4.000 | 4.012 | 3.978 | 3.990 |
| AL 0509 | 05 | 09 | 9.000 | 9.015 | 5.004 | 5.009 | 5.000 | 5.012 | 4.978 | 4.990 |
| AL 0610 | 06 | 10 | 10.000 | 10.015 | 6.004 | 6.009 | 6.000 | 6.012 | 5.978 | 5.990 |
| AL 0711 | 07 | 11 | 11.000 | 11.018 | 7.005 | 7.012 | 7.000 | 7.015 | 6.972 | 6.987 |
| AL 0812 | 08 | 12 | 12.000 | 12.018 | 8.005 | 8.012 | 8.000 | 8.015 | 7.972 | 7.987 |
| AL 1013 | 10 | 13 | 13.000 | 13.018 | 10.005 | 10.012 | 10.000 | 10.015 | 9.972 | 9.987 |
| AL 1015 | 10 | 15 | 15.000 | 15.018 | 10.005 | 10.012 | 10.000 | 10.015 | 9.972 | 9.987 |
| AL 1016 | 10 | 16 | 16.000 | 16.018 | 10.005 | 10.012 | 10.000 | 10.015 | 9.972 | 9.987 |
| AL 1215 | 12 | 15 | 15.000 | 15.018 | 12.006 | 12.015 | 12.000 | 12.018 | 11.966 | 11.984 |
| AL 1217 | 12 | 17 | 17.000 | 17.018 | 12.006 | 12.015 | 12.000 | 12.018 | 11.966 | 11.984 |
| AL 1218 | 12 | 18 | 18.000 | 18.018 | 12.006 | 12.015 | 12.000 | 12.018 | 11.966 | 11.984 |
| AL 1420 | 14 | 20 | 20.000 | 20.021 | 14.006 | 14.015 | 14.000 | 14.018 | 13.966 | 13.984 |
| AL 1519 | 15 | 19 | 19.000 | 19.021 | 15.006 | 15.015 | 15.000 | 15.018 | 14.966 | 14.984 |
| AL 1521 | 15 | 21 | 21.000 | 21.021 | 15.006 | 15.015 | 15.000 | 15.018 | 14.966 | 14.984 |
| AL 1620 | 16 | 20 | 20.000 | 20.021 | 16.006 | 16.015 | 16.000 | 16.018 | 15.966 | 15.984 |
| AL 1622 | 16 | 22 | 22.000 | 22.021 | 16.006 | 16.015 | 16.000 | 16.018 | 15.966 | 15.984 |
| AL 1824 | 18 | 24 | 24.000 | 24.021 | 18.006 | 18.015 | 18.000 | 18.018 | 17.966 | 17.984 |
| AL 2024 | 20 | 24 | 24.000 | 24.021 | 20.007 | 20.017 | 20.000 | 20.021 | 19.959 | 19.980 |
| AL 2026 | 20 | 26 | 26.000 | 26.021 | 20.007 | 20.017 | 20.000 | 20.021 | 19.959 | 19.980 |
| AL 2228 | 22 | 28 | 28.000 | 28.021 | 22.007 | 22.017 | 22.000 | 20.021 | 21.959 | 21.980 |
| AL 2530 | 25 | 30 | 30.000 | 30.021 | 25.007 | 25.017 | 25.000 | 22.021 | 24.959 | 24.980 |
| AL 2532 | 25 | 32 | 32.000 | 32.025 | 25.007 | 25.017 | 25.000 | 25.021 | 24.959 | 24.980 |
| AL 2836 | 28 | 36 | 36.000 | 36.025 | 28.007 | 28.017 | 28.000 | 28.021 | 27.959 | 27.980 |
| AL 3038 | 30 | 38 | 38.000 | 38.025 | 30.007 | 30.017 | 30.000 | 30.021 | 29.959 | 29.980 |
| AL 3238 | 32 | 38 | 38.000 | 38.025 | 32.009 | 32.020 | 32.000 | 32.025 | 31.950 | 31.975 |
| AL 3240 | 32 | 40 | 40.000 | 40.025 | 32.009 | 32.020 | 32.000 | 32.025 | 31.950 | 31.975 |
| AL 3545 | 35 | 45 | 45.000 | 45.025 | 35.009 | 35.020 | 35.000 | 35.025 | 34.950 | 34.975 |
| AL 3848 | 38 | 48 | 48.000 | 48.025 | 38.009 | 38.020 | 38.000 | 38.025 | 37.950 | 37.975 |
| AL 4046 | 40 | 46 | 46.000 | 46.025 | 40.009 | 40.020 | 40.000 | 40.025 | 39.950 | 39.975 |
| AL 4050 | 40 | 50 | 50.000 | 50.025 | 40.009 | 40.020 | 40.000 | 40.025 | 39.950 | 39.975 |



Fitting Pin

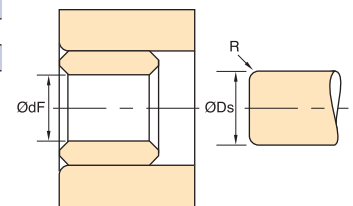


Free Bush



Housing

| Part Code | 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. |
| AL 4252 | 42 | 52 | 52.000 | 52.030 | 42.009 | 42.020 | 42.000 | 42.039 | 41.950 | 41.975 |
| AL 4555 | 45 | 55 | 55.000 | 55.030 | 45.009 | 45.020 | 45.000 | 45.039 | 44.950 | 44.975 |
| AL 5060 | 50 | 60 | 60.000 | 60.030 | 50.009 | 50.020 | 50.000 | 50.039 | 49.950 | 49.975 |



Fitted Bush

Shaft

Metric stock tolerances

Tolerances

Plain Bearings

Length: L js 13
 Concentricity: Full indicated movement.
 D with respect to d: D < 50 mm IT9; D > 50 mm, IT10.

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 < 50mm IT9; D > 50mm, IT10.

Chamfers: 45° 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 |

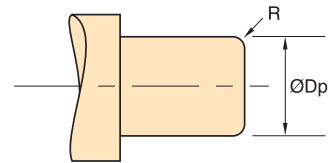
Plain and Flanged Bearings

Tolerances

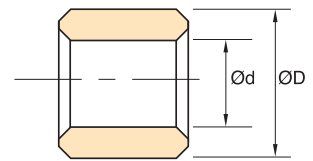
| Nominal Sizes (mm) | IT9 | IT10 | JS13 |
|--------------------|-----|-------|-------|
| - | 3 | 0.025 | - |
| 3 | 6 | 0.030 | - |
| 6 | 10 | 0.036 | - |
| 10 | 18 | 0.043 | - |
| 18 | 30 | 0.052 | - |
| 30 | 50 | 0.062 | - |
| 50 | 80 | - | 0.120 |

French metric plain bearings – fitting data

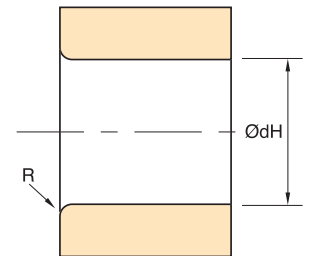
| Part No. | Basic Sizes | | ØdH (H7) | | ØDp (m5) | | Ødf (H7/H8) | | ØDs (f7) | |
|----------|-------------|----|----------|--------|----------|--------|-------------|--------|----------|--------|
| | Ød | ØD | Max | Min | Min | Max | Min | Max | Min | Max |
| AF0205 | 2 | 5 | 5.000 | 5.012 | 2.002 | 2.006 | 2.000 | 2.010 | 1.984 | 1.994 |
| AF0306 | 3 | 6 | 6.000 | 6.012 | 3.002 | 3.009 | 3.000 | 3.012 | 2.984 | 2.994 |
| AF0407 | 4 | 7 | 7.000 | 7.015 | 4.004 | 4.009 | 4.000 | 4.012 | 3.978 | 3.990 |
| AF0408 | 4 | 8 | 8.000 | 8.015 | 4.004 | 4.009 | 4.000 | 4.012 | 3.978 | 3.990 |
| AF0508 | 5 | 8 | 8.000 | 8.015 | 5.004 | 5.009 | 5.000 | 5.012 | 4.978 | 4.990 |
| AF0509 | 5 | 9 | 9.000 | 9.015 | 5.004 | 5.009 | 5.000 | 5.012 | 4.978 | 4.990 |
| AF0609 | 6 | 9 | 9.000 | 9.015 | 6.004 | 6.009 | 6.000 | 6.012 | 5.978 | 5.990 |
| AF0610 | 6 | 10 | 10.000 | 10.015 | 6.004 | 6.009 | 6.000 | 6.012 | 5.978 | 5.990 |
| AF0612 | 6 | 12 | 12.000 | 12.018 | 6.004 | 6.009 | 6.000 | 6.012 | 5.978 | 5.990 |
| AF0710 | 7 | 10 | 10.000 | 10.015 | 7.006 | 7.012 | 7.000 | 7.015 | 6.972 | 6.987 |
| AF0811 | 8 | 11 | 11.000 | 11.018 | 8.006 | 8.012 | 8.000 | 8.015 | 7.972 | 7.987 |
| AF0812 | 8 | 12 | 12.000 | 12.018 | 8.006 | 8.012 | 8.000 | 8.015 | 7.972 | 7.987 |
| AF0814 | 8 | 14 | 14.000 | 14.018 | 8.006 | 8.012 | 8.000 | 8.015 | 7.972 | 7.987 |
| AF0912 | 9 | 12 | 12.000 | 12.018 | 9.006 | 9.012 | 9.000 | 9.015 | 8.972 | 8.987 |
| AF1013 | 10 | 13 | 13.000 | 13.018 | 10.006 | 10.012 | 12.000 | 10.015 | 9.972 | 9.987 |
| AF1014 | 10 | 14 | 14.000 | 14.018 | 10.006 | 10.012 | 10.000 | 10.015 | 9.972 | 9.987 |
| AF1015 | 10 | 15 | 15.000 | 15.018 | 10.006 | 10.012 | 10.000 | 10.015 | 9.972 | 9.987 |
| AF1016 | 10 | 16 | 16.000 | 16.018 | 10.006 | 10.012 | 10.000 | 10.015 | 9.972 | 9.987 |
| AF1215 | 12 | 15 | 15.000 | 15.018 | 12.007 | 12.015 | 12.000 | 12.018 | 11.966 | 11.984 |
| AF1216 | 12 | 16 | 16.000 | 16.018 | 12.007 | 12.015 | 12.000 | 12.018 | 11.966 | 11.984 |
| AF1217 | 12 | 17 | 17.000 | 17.018 | 12.007 | 12.015 | 12.000 | 12.018 | 11.966 | 11.984 |
| AF1218 | 12 | 18 | 18.000 | 18.018 | 12.007 | 12.015 | 12.000 | 12.018 | 11.966 | 11.984 |
| AF1418 | 14 | 18 | 18.000 | 18.018 | 14.007 | 14.015 | 14.000 | 14.018 | 13.966 | 13.984 |
| AF1420 | 14 | 20 | 20.000 | 20.021 | 14.007 | 14.015 | 14.000 | 14.018 | 13.966 | 13.984 |
| AF1519 | 15 | 19 | 19.000 | 19.021 | 15.007 | 15.015 | 15.000 | 15.018 | 14.966 | 14.984 |
| AF1521 | 15 | 21 | 21.000 | 21.021 | 15.007 | 15.015 | 15.000 | 15.018 | 14.966 | 14.984 |
| AF1620 | 16 | 20 | 20.000 | 20.021 | 16.007 | 16.015 | 16.000 | 16.018 | 15.966 | 15.984 |
| AF1622 | 16 | 22 | 22.000 | 22.021 | 16.007 | 16.015 | 16.000 | 16.018 | 15.966 | 15.984 |
| AF1822 | 18 | 22 | 22.000 | 22.021 | 18.007 | 18.015 | 18.000 | 18.018 | 17.966 | 17.984 |
| AF1824 | 18 | 24 | 24.000 | 24.021 | 18.007 | 18.015 | 18.000 | 18.018 | 17.966 | 17.984 |
| AF1825 | 18 | 25 | 25.000 | 25.021 | 18.007 | 18.015 | 18.000 | 18.018 | 17.966 | 17.984 |
| AF2024 | 20 | 24 | 24.000 | 24.021 | 20.008 | 20.017 | 20.000 | 20.021 | 19.959 | 19.980 |
| AF2025 | 20 | 25 | 25.000 | 25.021 | 20.008 | 20.017 | 20.000 | 20.021 | 19.959 | 19.980 |
| AF2026 | 20 | 26 | 26.000 | 26.021 | 20.008 | 20.017 | 20.000 | 20.021 | 19.959 | 19.960 |
| AF2027 | 20 | 27 | 27.000 | 27.021 | 20.008 | 20.017 | 20.000 | 20.021 | 19.959 | 19.980 |
| AF2028 | 20 | 28 | 28.000 | 28.021 | 20.008 | 20.017 | 20.000 | 20.021 | 19.959 | 19.980 |
| AF2227 | 22 | 27 | 27.000 | 27.021 | 22.008 | 22.017 | 22.000 | 22.021 | 21.959 | 21.980 |
| AF2228 | 22 | 28 | 28.000 | 28.021 | 22.008 | 22.017 | 22.000 | 22.021 | 21.959 | 21.980 |
| AF2229 | 22 | 29 | 29.000 | 29.021 | 22.008 | 22.017 | 22.000 | 22.021 | 21.959 | 21.980 |
| AF2530 | 25 | 30 | 30.000 | 30.021 | 25.008 | 25.017 | 25.000 | 25.021 | 24.959 | 24.980 |
| AF2532 | 25 | 32 | 32.000 | 32.025 | 25.008 | 25.017 | 25.000 | 25.021 | 24.959 | 24.980 |
| AF2832 | 28 | 32 | 32.000 | 32.025 | 28.008 | 28.017 | 28.000 | 28.021 | 27.959 | 27.980 |
| AF2833 | 28 | 33 | 33.000 | 33.025 | 28.008 | 28.017 | 28.000 | 28.021 | 27.959 | 27.980 |
| AF2836 | 28 | 36 | 36.000 | 36.025 | 28.008 | 28.017 | 28.000 | 28.021 | 27.959 | 27.980 |
| AF3038 | 30 | 38 | 38.000 | 38.025 | 30.008 | 30.017 | 30.000 | 30.021 | 29.959 | 29.980 |
| AF3238 | 32 | 38 | 38.000 | 38.025 | 32.009 | 32.020 | 32.000 | 32.025 | 31.950 | 31.975 |
| AF3240 | 32 | 40 | 40.000 | 40.025 | 32.009 | 32.020 | 32.000 | 32.025 | 31.950 | 31.975 |
| AF3544 | 35 | 44 | 44.000 | 44.025 | 35.009 | 35.020 | 35.000 | 35.025 | 34.950 | 34.975 |
| AF3545 | 35 | 45 | 45.000 | 45.025 | 35.009 | 35.020 | 35.000 | 35.025 | 34.950 | 34.975 |
| AF3642 | 36 | 42 | 42.000 | 42.025 | 36.009 | 36.020 | 36.000 | 36.025 | 35.950 | 35.975 |
| AF3545 | 36 | 45 | 45.000 | 45.025 | 36.009 | 36.020 | 36.000 | 36.025 | 35.950 | 35.975 |
| AF3844 | 38 | 44 | 44.000 | 44.025 | 38.009 | 38.020 | 38.000 | 38.025 | 37.950 | 37.975 |
| AF4046 | 40 | 46 | 46.000 | 46.025 | 40.009 | 40.020 | 40.000 | 40.025 | 39.950 | 39.975 |
| AF4050 | 40 | 50 | 50.000 | 50.025 | 40.009 | 40.020 | 40.000 | 40.025 | 39.950 | 39.975 |
| AF4551 | 45 | 51 | 51.000 | 51.030 | 45.009 | 45.020 | 45.000 | 45.025 | 44.950 | 44.975 |
| AF4555 | 45 | 55 | 55.000 | 55.030 | 45.009 | 45.020 | 45.000 | 45.025 | 44.950 | 44.975 |
| AF4556 | 45 | 56 | 56.000 | 56.030 | 45.009 | 45.020 | 45.000 | 45.025 | 44.950 | 44.975 |
| AF5056 | 50 | 56 | 56.000 | 56.030 | 50.009 | 50.020 | 50.000 | 50.025 | 49.950 | 49.975 |
| AF5060 | 50 | 60 | 60.000 | 60.030 | 50.009 | 50.020 | 50.000 | 50.025 | 49.950 | 49.975 |
| AF5565 | 55 | 65 | 65.000 | 65.030 | 55.011 | 55.024 | 55.000 | 55.030 | 55.940 | 54.970 |
| AF6070 | 60 | 70 | 70.000 | 70.030 | 60.011 | 60.024 | 60.000 | 60.046 | 59.940 | 59.970 |
| AF6072 | 60 | 72 | 72.000 | 72.030 | 60.011 | 60.024 | 60.000 | 60.046 | 59.940 | 59.970 |
| AF6080 | 60 | 80 | 80.000 | 80.030 | 60.011 | 60.024 | 60.000 | 60.046 | 59.940 | 59.970 |
| AF6370 | 63 | 70 | 70.000 | 70.030 | 63.011 | 63.024 | 63.000 | 63.046 | 62.940 | 62.970 |



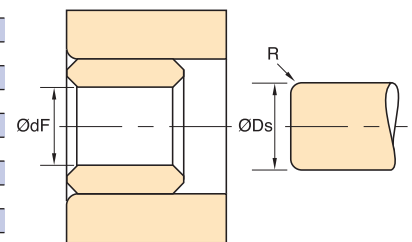
Fitting Pin



Free Bush



Housing



Fitted Bush

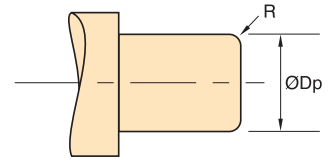
Shaft

Note: For cylindrical bearings of Ø int>60mm housing tolerance H8.

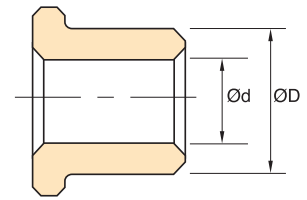
Bowman International Limited reserve the right to change specifications without prior notice E & OE

French metric flanged bearings – fitting data

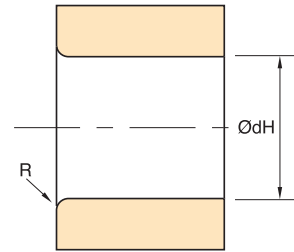
| Part No. | Basic Sizes | | ØdH (H7) | | ØDp (m5) | | Ødf (H7/H8) | | ØDs (f7) | |
|----------|-------------|----|----------|--------|----------|--------|-------------|--------|----------|--------|
| | Ød | ØD | Max | Min | Min | Max | Min | Max | Min | Max |
| AG0306 | 3 | 6 | 6.000 | 6.012 | 3.002 | 3.006 | 3.000 | 3.014 | 2.984 | 2.994 |
| AG0408 | 4 | 8 | 8.000 | 8.016 | 4.004 | 4.009 | 4.000 | 4.018 | 3.978 | 3.990 |
| AG0610 | 6 | 10 | 10.000 | 10.015 | 6.004 | 6.009 | 6.000 | 6.018 | 5.978 | 5.990 |
| AG0812 | 8 | 12 | 12.000 | 12.018 | 8.006 | 8.012 | 8.000 | 8.022 | 7.972 | 7.987 |
| AG0914 | 9 | 14 | 14.000 | 14.018 | 9.006 | 9.012 | 9.000 | 9.022 | 8.972 | 8.987 |
| AG1013 | 10 | 13 | 13.000Ω | 13.018 | 10.006 | 10.012 | 10.000 | 10.002 | 9.972 | 9.987 |
| AG1015 | 10 | 15 | 15.000 | 15.018 | 10.006 | 10.012 | 10.000 | 10.022 | 9.972 | 9.987 |
| AG1016 | 10 | 16 | 16.000 | 16.018 | 10.006 | 10.012 | 10.000 | 10.022 | 9.972 | 9.987 |
| AG1215 | 12 | 15 | 15.000 | 15.018 | 12.007 | 12.015 | 12.000 | 12.027 | 11.966 | 11.984 |
| AG1217 | 12 | 17 | 17.000 | 17.018 | 12.007 | 12.015 | 12.000 | 12.027 | 11.966 | 11.984 |
| AG1218 | 12 | 18 | 18.000 | 18.018 | 12.007 | 12.015 | 12.000 | 12.027 | 11.966 | 11.984 |
| AG1418 | 14 | 18 | 18.000 | 18.018 | 14.007 | 14.015 | 14.000 | 14.027 | 13.966 | 13.984 |
| AG1420 | 14 | 20 | 20.000 | 20.021 | 14.007 | 14.015 | 14.000 | 14.027 | 13.966 | 13.984 |
| AG1519 | 15 | 19 | 19.000 | 19.021 | 15.007 | 15.015 | 15.000 | 15.027 | 14.966 | 14.984 |
| AG1521 | 15 | 21 | 21.000 | 21.021 | 15.007 | 15.015 | 15.000 | 15.027 | 14.966 | 14.984 |
| AG1620 | 16 | 20 | 20.000 | 20.021 | 16.007 | 16.015 | 16.000 | 16.027 | 15.966 | 15.984 |
| AG1622 | 16 | 22 | 22.000 | 22.021 | 16.007 | 16.015 | 16.000 | 16.027 | 15.966 | 15.984 |
| AG1822 | 18 | 22 | 22.000 | 22.021 | 18.007 | 18.015 | 18.000 | 18.027 | 17.966 | 17.984 |
| AG1824 | 18 | 24 | 24.000 | 24.021 | 18.007 | 18.015 | 18.000 | 18.027 | 17.966 | 17.984 |
| AG2024 | 20 | 24 | 24.000 | 24.021 | 20.008 | 20.017 | 20.000 | 20.033 | 19.959 | 19.980 |
| AG2026 | 20 | 26 | 26.000 | 26.021 | 20.008 | 20.017 | 20.000 | 20.033 | 19.959 | 19.980 |
| AG2227 | 22 | 27 | 27.000 | 27.021 | 22.008 | 22.017 | 22.000 | 22.033 | 21.959 | 21.980 |
| AG2228 | 22 | 28 | 28.000 | 28.021 | 22.008 | 22.017 | 22.000 | 22.033 | 21.959 | 21.980 |
| AG2229 | 22 | 29 | 29.000 | 29.021 | 22.008 | 22.017 | 22.000 | 22.033 | 21.959 | 21.980 |
| AG2530 | 25 | 30 | 30.000 | 30.021 | 25.008 | 25.017 | 25.000 | 25.033 | 24.959 | 24.980 |
| AG2532 | 25 | 32 | 32.000 | 32.025 | 25.008 | 25.017 | 25.000 | 25.033 | 24.959 | 24.980 |
| AG2833 | 28 | 33 | 33.000 | 33.025 | 28.008 | 28.017 | 28.000 | 28.033 | 27.959 | 27.980 |
| AG2836 | 28 | 36 | 36.000 | 36.025 | 28.008 | 28.017 | 28.000 | 28.033 | 27.959 | 27.980 |
| AG3038 | 30 | 38 | 38.000 | 38.025 | 30.008 | 30.017 | 30.000 | 30.033 | 29.959 | 29.980 |
| AG3238 | 32 | 38 | 38.000 | 38.025 | 32.009 | 32.020 | 32.000 | 32.039 | 31.950 | 31.975 |
| AG3240 | 32 | 40 | 40.000 | 40.025 | 32.009 | 32.020 | 32.000 | 32.039 | 31.950 | 31.975 |
| AG3242 | 36 | 42 | 42.000 | 42.025 | 36.009 | 36.020 | 36.000 | 36.039 | 35.950 | 35.975 |
| AG3645 | 36 | 45 | 45.000 | 45.025 | 36.009 | 36.020 | 36.000 | 36.039 | 35.950 | 35.975 |
| AG4046 | 40 | 46 | 46.000 | 46.025 | 40.009 | 40.020 | 40.000 | 40.039 | 39.950 | 39.975 |
| AG4050 | 40 | 50 | 50.000 | 50.025 | 40.009 | 40.020 | 40.000 | 40.039 | 39.950 | 39.975 |
| AG4551 | 45 | 51 | 51.000 | 51.030 | 45.009 | 45.020 | 45.000 | 45.039 | 44.950 | 44.975 |
| AG4556 | 45 | 56 | 56.000 | 56.030 | 45.009 | 45.020 | 45.000 | 45.039 | 44.950 | 44.975 |
| AG5056 | 50 | 56 | 56.000 | 56.030 | 50.009 | 50.020 | 50.000 | 50.039 | 49.950 | 49.975 |
| AG5060 | 50 | 60 | 56.000 | 56.030 | 50.009 | 50.020 | 50.000 | 50.039 | 49.950 | 49.975 |
| AG6070 | 60 | 70 | 70.000 | 70.030 | 60.011 | 60.024 | 60.000 | 60.046 | 59.940 | 59.970 |



Fitting Pin

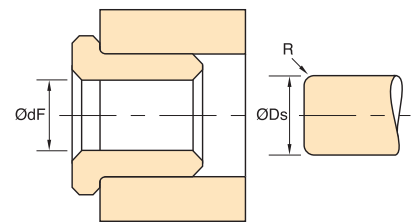


Free Bush



Housing

Note: For cylindrical bearings of Ø int > 60mm housing tolerance H8.

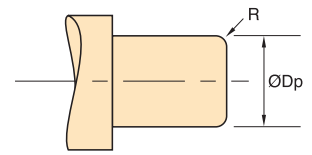


Fitted Bush

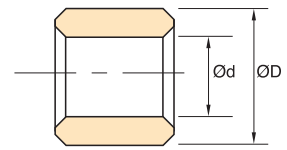
Shaft

German metric plain bearings to DIN 1850 – fitting data

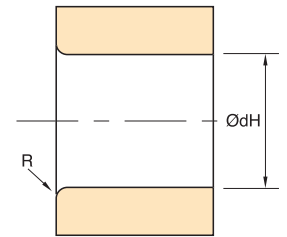
| Part No. | Basic Sizes | | ØdH (H7) | | ØDp (m5) | | Ødf (H7/H8) | | ØDs (f7) | |
|----------|-------------|----|----------|--------|----------|--------|-------------|--------|----------|--------|
| | Ød | ØD | Max | Min | Min | Max | Min | Max | Min | Max |
| AD0306 | 3 | 6 | 6.000 | 6.012 | 3.002 | 3.006 | 3.000 | 3.010 | 2.984 | 2.984 |
| AD0408 | 4 | 8 | 8.000 | 8.015 | 4.004 | 4.009 | 4.000 | 4.012 | 3.978 | 3.990 |
| AD0509 | 5 | 9 | 9.000 | 9.015 | 5.004 | 5.009 | 5.000 | 5.012 | 4.978 | 4.990 |
| AD0610 | 6 | 10 | 10.000 | 10.015 | 6.004 | 6.009 | 6.000 | 6.012 | 5.978 | 5.990 |
| AD0612 | 6 | 12 | 12.000 | 12.018 | 6.004 | 6.009 | 6.000 | 6.012 | 5.978 | 5.990 |
| AD0812 | 8 | 12 | 12.000 | 12.018 | 8.006 | 8.012 | 8.000 | 8.015 | 7.972 | 7.987 |
| AD1016 | 10 | 16 | 16.000 | 16.018 | 10.006 | 10.012 | 10.000 | 10.015 | 9.972 | 9.987 |
| AD1218 | 12 | 18 | 18.000 | 18.018 | 12.007 | 12.015 | 12.000 | 12.018 | 11.966 | 11.984 |
| AD1420 | 14 | 20 | 20.000 | 20.021 | 14.007 | 14.015 | 14.000 | 14.018 | 13.966 | 13.984 |
| AD1520 | 15 | 20 | 20.000 | 20.021 | 15.007 | 15.015 | 15.000 | 15.018 | 14.966 | 14.984 |
| AD1622 | 16 | 22 | 22.000 | 22.021 | 16.007 | 16.015 | 16.000 | 16.018 | 15.966 | 15.984 |
| AD1825 | 18 | 25 | 25.000 | 25.021 | 18.007 | 18.015 | 18.000 | 18.018 | 17.966 | 17.984 |
| AD2026 | 20 | 26 | 26.000 | 26.021 | 20.008 | 20.017 | 20.000 | 20.021 | 19.959 | 19.980 |
| AD2030 | 20 | 30 | 30.000 | 30.021 | 20.008 | 20.017 | 20.000 | 20.021 | 19.959 | 19.980 |
| AD2228 | 22 | 28 | 28.000 | 28.021 | 22.008 | 22.017 | 22.000 | 22.021 | 21.959 | 21.980 |
| AD2532 | 25 | 32 | 32.000 | 32.025 | 25.008 | 25.017 | 25.000 | 25.021 | 24.959 | 24.980 |
| AD2836 | 28 | 36 | 36.000 | 36.025 | 28.008 | 28.017 | 28.000 | 28.021 | 27.959 | 27.980 |
| AD3038 | 30 | 38 | 38.000 | 38.025 | 30.008 | 30.017 | 30.000 | 30.021 | 29.959 | 29.980 |
| AD3040 | 30 | 40 | 40.000 | 40.025 | 30.008 | 30.017 | 30.000 | 30.021 | 29.959 | 29.980 |
| AD3240 | 32 | 40 | 40.000 | 40.025 | 32.009 | 32.020 | 32.000 | 32.025 | 31.950 | 29.975 |
| AD3545 | 35 | 45 | 45.000 | 45.025 | 35.009 | 35.020 | 35.000 | 35.025 | 34.950 | 34.975 |
| AD4050 | 40 | 50 | 50.000 | 50.025 | 40.009 | 40.020 | 40.000 | 40.025 | 39.950 | 39.975 |
| AD4556 | 45 | 56 | 56.000 | 56.030 | 45.009 | 45.020 | 45.000 | 45.025 | 44.950 | 44.975 |
| AD5060 | 50 | 60 | 60.000 | 60.030 | 50.009 | 50.020 | 50.000 | 50.025 | 49.950 | 49.975 |



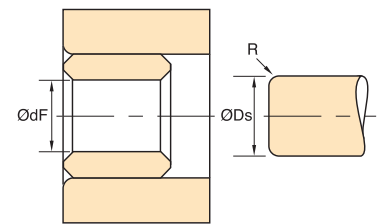
Fitting Pin



Free Bush



Housing



Fitted Bush

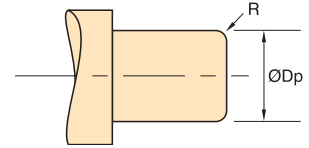
Shaft

German metric flanged bearings to DIN 1850 – fitting data

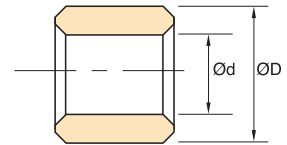
| Part No. | Basic Sizes | | ØdH (H7) | | ØDp (m5) | | Ødf (H7/H8) | | ØDs (f7) | |
|----------|-------------|----|----------|--------|----------|--------|-------------|--------|----------|--------|
| | Ød | ØD | Max | Min | Min | Max | Min | Max | Min | Max |
| AE0408 | 4 | 8 | 8.000 | 8.015 | 4.004 | 4.009 | 4.000 | 4.012 | 3.978 | 3.990 |
| AE0610 | 6 | 10 | 10.000 | 10.015 | 6.004 | 6.009 | 6.000 | 6.012 | 5.978 | 5.990 |
| AE0812 | 8 | 12 | 12.000 | 12.018 | 8.006 | 8.012 | 8.000 | 8.015 | 7.972 | 7.987 |
| AE1016 | 10 | 16 | 16.000 | 16.018 | 10.006 | 10.012 | 10.000 | 10.015 | 9.972 | 9.987 |
| AE1216 | 12 | 16 | 16.000 | 16.018 | 12.007 | 12.015 | 12.000 | 12.018 | 11.966 | 11.984 |
| AE1420 | 14 | 20 | 20.000 | 20.021 | 14.007 | 14.015 | 14.000 | 14.018 | 13.966 | 13.984 |
| AE1622 | 16 | 22 | 22.000 | 22.021 | 16.007 | 16.015 | 16.000 | 16.018 | 15.966 | 15.984 |
| AE1824 | 18 | 24 | 24.000 | 24.021 | 18.007 | 18.015 | 18.000 | 18.018 | 17.966 | 17.984 |
| AE2026 | 20 | 26 | 26.000 | 26.021 | 20.008 | 20.017 | 20.000 | 20.021 | 19.959 | 19.980 |

Inch plain bearings – fitting data

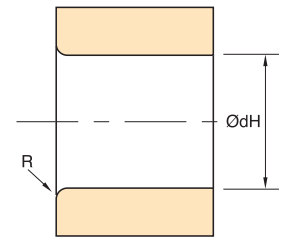
| Part Code | Basic Sizes | | Ø dH (H8) | | Ø Dp | | Ø dF | | | Ø Ds (f7) (except *) | |
|-----------|-------------|--------|-----------|--------|--------|--------|--------|--------|------|----------------------|---------|
| | Ø d | Ø D | Min. | Max. | Min. | Max. | Min. | Max. | Tol. | Min. | Max. |
| AI 0305 | 3/16 | 5/16 | 0.3125 | 0.3134 | 0.1877 | 0.1879 | 0.1876 | 0.1886 | | 0.1866 | 0.1871 |
| AI 0406 | 1/4 | 5/8 | 0.3750 | 0.3759 | 0.2502 | 0.2504 | 0.2500 | 0.2507 | H8 | 0.2489 | 0.2495 |
| AI 0407 | 1/4 | 7/16 | 0.4375 | 0.4385 | 0.2498 | 0.2500 | 0.2496 | 0.2506 | | 0.2484* | 0.2490* |
| AI 0408 | 1/4 | 1/2 | 0.5000 | 0.5010 | 0.2502 | 0.2504 | 0.2500 | 0.2504 | H8 | 0.2489 | 0.2495 |
| AI 0507 | 5/16 | 7/16 | 0.4375 | 0.4385 | 0.3127 | 0.3129 | 0.3125 | 0.3133 | H8 | 0.3114 | 0.3120 |
| AI 0508 | 5/16 | 1/2 | 0.5000 | 0.5010 | 0.3127 | 0.3129 | 0.3125 | 0.3131 | H8 | 0.3114 | 0.3120 |
| AI 0608 | 3/8 | 1/2 | 0.5000 | 0.5010 | 0.3752 | 0.3754 | 0.3750 | 0.3754 | H8 | 0.3739 | 0.3745 |
| AI 0610 | 3/8 | 5/8 | 0.6250 | 0.6260 | 0.3752 | 0.3754 | 0.3750 | 0.3759 | H8 | 0.3739 | 0.3745 |
| AI 0709 | 7/16 | 3/4 | 0.5625 | 0.5635 | 0.4377 | 0.4379 | 0.4375 | 0.4385 | H8 | 0.4362 | 0.4369 |
| AI 0711 | 7/16 | 11/16 | 0.6875 | 0.6885 | 0.4377 | 0.4379 | 0.4375 | 0.4385 | H8 | 0.4362 | 0.4369 |
| AI 0810 | 1/2 | 5/8 | 0.6250 | 0.6260 | 0.5002 | 0.5005 | 0.5000 | 0.5009 | H8 | 0.4987 | 0.4994 |
| AI 0811 | 1/2 | 11/16 | 0.6875 | 0.6885 | 0.5002 | 0.5005 | 0.5000 | 0.5012 | | 0.4987 | 0.4994 |
| AI 0812 | 1/2 | 3/4 | 0.7500 | 0.7512 | 0.5002 | 0.5005 | 0.5000 | 0.5010 | H8 | 0.4987 | 0.4994 |
| AI 0911 | 5/8 | 11/16 | 0.6875 | 0.6885 | 0.5625 | 0.5628 | 0.5625 | 0.5634 | H8 | 0.5612 | 0.5619 |
| AI 0912 | 5/8 | 3/4 | 0.7500 | 0.7512 | 0.5635 | 0.5638 | 0.5633 | 0.5644 | | 0.5618* | 0.5625* |
| AI 1012 | 3/4 | 1 | 0.7500 | 0.7512 | 0.6252 | 0.6255 | 0.6250 | 0.6263 | | 0.6237 | 0.6244 |
| AI 1013 | 3/4 | 13/16 | 0.8125 | 0.8137 | 0.6252 | 0.6255 | 0.6250 | 0.6269 | | 0.6237 | 0.6244 |
| AI 1014 | 3/4 | 7/8 | 0.8750 | 0.8762 | 0.6252 | 0.6255 | 0.6250 | 0.6259 | H8 | 0.6237 | 0.6244 |
| AI 1115 | 11/16 | 15/16 | 0.9375 | 0.9387 | 0.6877 | 0.6880 | 0.6875 | 0.6880 | H8 | 0.6892 | 0.6869 |
| AI 1214 | 3/4 | 7/8 | 0.8750 | 0.8762 | 0.7502 | 0.7505 | 0.7500 | 0.7513 | | 0.7484 | 0.7492 |
| AI 1215 | 3/4 | 15/16 | 0.9375 | 0.9387 | 0.7516 | 0.7519 | 0.7514 | 0.7531 | | 0.7499* | 0.7508* |
| AI 1216 | 3/4 | 1 | 1.0000 | 1.0012 | 0.7502 | 0.7505 | 0.7500 | 0.7512 | H8 | 0.7484 | 0.7492 |
| UI 1216 | 3/4 | 1 | 1.0000 | 1.0012 | 0.7502 | 0.7505 | 0.7500 | 0.7522 | | 0.7484 | 0.7492 |
| AI1218 | 3/4 | 1 1/8 | 1.1250 | 1.1262 | 0.7502 | 0.7505 | 0.7500 | 0.7521 | | 0.7484 | 0.7492 |
| AI 1220 | 3/4 | 1 1/4 | 1.2000 | 1.2516 | 0.7502 | 0.7505 | 0.7500 | 0.7520 | | 0.7484 | 0.7492 |
| AI 1416 | 7/8 | 1 | 1.0000 | 1.0012 | 0.8752 | 0.8755 | 0.8750 | 0.8761 | H8 | 0.8737 | 0.8744 |
| AI 1418 | 7/8 | 1 1/8 | 1.1250 | 1.1262 | 0.8752 | 0.8755 | 0.8750 | 0.8761 | H8 | 0.8737 | 0.8744 |
| AI 1618 | 1 | 1 1/8 | 1.1250 | 1.1262 | 1.0002 | 1.0006 | 1.0000 | 1.0012 | H8 | 0.9984 | 0.9992 |
| AI 1620 | 1 | 1 1/4 | 1.1250 | 1.2516 | 1.0002 | 1.0006 | 1.0000 | 1.0012 | H8 | 0.9984 | 0.9992 |
| AI 1624 | 1 | 1 1/2 | 1.5000 | 1.5016 | 1.0002 | 1.0006 | 1.0000 | 1.0016 | | 0.9984 | 0.9992 |
| AI 1822 | 1 1/8 | 1 3/8 | 1.3750 | 1.3766 | 1.1252 | 1.1256 | 1.1250 | 1.1265 | | 1.1234 | 1.1244 |
| AI 2024 | 1 1/4 | 1 1/2 | 1.5000 | 1.5016 | 1.2502 | 1.2506 | 1.2500 | 1.2514 | H8 | 1.2480 | 1.2490 |
| AI 2026 | 1 1/4 | 1 3/4 | 1.6250 | 1.6266 | 1.2502 | 1.2506 | 1.2500 | 1.2526 | | 1.2480 | 1.2490 |
| AI 2226 | 1 3/8 | 1 3/4 | 1.6250 | 1.6266 | 1.3752 | 1.3756 | 1.3750 | 1.3765 | H8 | 1.3730 | 1.3740 |
| AI 2228 | 1 3/8 | 1 3/4 | 1.7500 | 1.7516 | 1.3752 | 1.3756 | 1.3750 | 1.3762 | H8 | 1.3730 | 1.3740 |
| AI 2428 | 1 1/2 | 1 3/4 | 1.7500 | 1.7516 | 1.5002 | 1.5006 | 1.5000 | 1.5014 | H8 | 1.4980 | 1.4990 |
| AI 2430 | 1 1/2 | 1 7/8 | 1.8750 | 1.8766 | 1.5002 | 1.5006 | 1.5000 | 1.5016 | H8 | 1.4980 | 1.4990 |
| AI 2432 | 1 1/2 | 2 | 2.0000 | 2.0018 | 1.5002 | 1.5006 | 1.5000 | 1.5025 | | 1.4980 | 1.4990 |
| AI 2633 | 1 5/8 | 2 1/16 | 2.0625 | 2.0643 | 1.6252 | 1.6258 | 1.6250 | 1.6274 | | 1.6230 | 1.6240 |
| AI 2832 | 1 3/4 | 2 | 2.0000 | 2.0018 | 1.7502 | 1.7508 | 1.7500 | 1.7515 | H8 | 1.7480 | 1.7490 |
| AI 2836 | 1 3/4 | 2 1/4 | 2.2500 | 2.2518 | 1.7502 | 1.7508 | 1.7500 | 1.7515 | H8 | 1.7480 | 1.7490 |
| AI 3236 | 2 | 2 1/4 | 2.2500 | 2.2518 | 2.0002 | 2.0008 | 2.0000 | 2.0015 | H8 | 1.9976 | 1.9988 |
| AI 3240 | 2 | 2 1/2 | 2.5000 | 2.5018 | 2.0002 | 2.0008 | 2.0000 | 2.0011 | H8 | 1.9976 | 1.9988 |
| AI 3642 | 2 1/4 | 2 3/4 | 2.6250 | 2.6268 | 2.2502 | 2.2508 | 2.2500 | 2.2536 | | 2.2476 | 2.2488 |
| AI 3644 | 2 1/4 | 2 3/4 | 2.7500 | 2.7518 | 2.2502 | 2.2508 | 2.2500 | 2.2512 | H8 | 2.2476 | 2.2488 |
| AI 4048 | 2 1/2 | 3 | 3.0000 | 3.0018 | 2.5002 | 2.5008 | 2.5000 | 2.5013 | H8 | 2.4976 | 2.4988 |
| AI 4856 | 3 | 3 1/2 | 3.4980 | 3.5003 | 2.9957 | 2.9967 | 2.9955 | 2.9986 | | 2.9922* | 2.9940* |



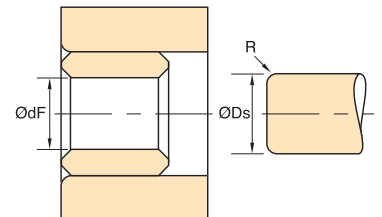
Fitting Pin



Free Bush



Housing



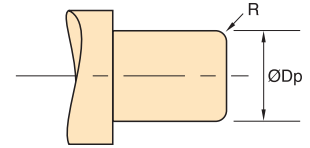
Fitted Bush

Shaft

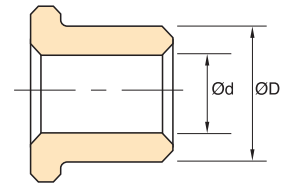
Bowman International Limited reserve the right to change specifications without prior notice E & OE

Inch flanged bearings – fitting data

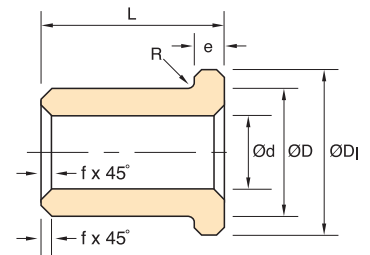
| Part Code | Basic Sizes | | Ø dH (H8) | | Ø Dp | | Ø dF | | | Ø Ds (f7) (except *) | |
|-----------|-------------|-------|-----------|--------|--------|--------|--------|--------|------|----------------------|---------|
| | Ø d | Ø D | Min. | Max. | Min. | Max. | Min. | Max. | Tol. | Min. | Max. |
| AJ 0305 | 3/16 | 5/16 | 0.3125 | 0.3134 | 0.1877 | 0.1879 | 0.1875 | 0.1883 | H8 | 0.1866 | 0.1871 |
| AJ 0406 | 1/4 | 5/16 | 0.3750 | 0.3759 | 0.2502 | 0.2504 | 0.2500 | 0.2504 | H8 | 0.2489 | 0.2495 |
| AJ 0508 | 5/16 | 1/2 | 0.5000 | 0.5010 | 0.3127 | 0.3129 | 0.3125 | 0.3127 | H8 | 0.3114 | 0.3120 |
| AJ 0509 | 5/16 | 5/16 | 0.5625 | 0.5635 | 0.3116 | 0.3118 | 0.3114 | 0.3121 | | 0.3100* | 0.3109* |
| AJ 0608 | 3/8 | 1/2 | 0.5000 | 0.5010 | 0.3752 | 0.3754 | 0.3750 | 0.3756 | H8 | 0.3739 | 0.3745 |
| UJ 0608 | 3/8 | 1/2 | 0.5000 | 0.5010 | 0.3752 | 0.3754 | 0.3750 | 0.3752 | H8 | 0.3739 | 0.3745 |
| AJ 0609 | 3/8 | 5/16 | 0.5625 | 0.5635 | 0.3744 | 0.3746 | 0.3742 | 0.3748 | | 0.3739* | 0.3745* |
| AJ 0610 | 3/8 | 3/8 | 0.6250 | 0.6260 | 0.3752 | 0.3754 | 0.3750 | 0.3758 | H8 | 0.3739 | 0.3745 |
| AJ 0709 | 7/16 | 5/8 | 0.5625 | 0.5635 | 0.4390 | 0.4392 | 0.4388 | 0.4401 | | 0.4376* | 0.4383* |
| AJ 0810 | 1/2 | 5/8 | 0.6250 | 0.6260 | 0.4997 | 0.4999 | 0.4995 | 0.5001 | J8 | 0.4981* | 0.4988* |
| AJ 0812 | 1/2 | 3/4 | 0.7500 | 0.7512 | 0.5002 | 0.5005 | 0.5000 | 0.5009 | H8 | 0.4987 | 0.4994 |
| AJ 1012 | 5/8 | 3/4 | 0.7500 | 0.7512 | 0.6266 | 0.6269 | 0.6264 | 0.6275 | | 0.6251* | 0.6258* |
| AJ 1014 | 5/8 | 7/8 | 0.8750 | 0.8762 | 0.6252 | 0.6255 | 0.6250 | 0.6259 | H8 | 0.6237 | 0.6244 |
| AJ 1216 | 3/4 | 1 | 1.0000 | 1.0012 | 0.7502 | 0.7505 | 0.7500 | 0.7512 | H8 | 0.7484 | 0.7492 |
| AJ 1416 | 7/8 | 1 | 1.0000 | 1.0012 | 0.8752 | 0.8755 | 0.8750 | 0.8761 | H8 | 0.8737 | 0.8744 |
| AJ 1418 | 7/8 | 1 1/8 | 1.1250 | 1.1262 | 0.8752 | 0.8755 | 0.8750 | 0.8761 | H8 | 0.8737 | 0.8744 |
| AJ 1620 | 1 | 1 1/4 | 1.2500 | 1.2516 | 1.0002 | 1.0006 | 1.0000 | 1.0012 | H8 | 0.9984 | 0.9994 |
| UJ 1620 | 1 | 1 1/4 | 1.2500 | 1.2516 | 1.0007 | 1.0010 | 1.0050 | 1.0017 | | 0.9993* | 1.0000* |
| AJ 1822 | 1 1/8 | 1 3/8 | 1.3750 | 1.3766 | 1.1252 | 1.1256 | 1.1250 | 1.1262 | H8 | 1.1234 | 1.1244 |
| AJ 2024 | 1 1/4 | 1 1/2 | 1.5000 | 1.5016 | 1.2502 | 1.2506 | 1.2500 | 1.2514 | H8 | 1.2480 | 1.2490 |
| AJ 2026 | 1 1/4 | 1 3/8 | 1.6250 | 1.6266 | 1.2502 | 1.2506 | 1.2500 | 1.2515 | H8 | 1.2480 | 1.2490 |
| AJ 2226 | 1 3/8 | 1 3/4 | 1.6250 | 1.6266 | 1.3740 | 1.3744 | 1.3738 | 1.3752 | | 1.3720* | 1.3730* |
| AJ 2428 | 1 1/2 | 1 3/4 | 1.7485 | 1.7502 | 1.5012 | 1.5016 | 1.5010 | 1.5020 | F8 | 1.4990* | 1.5000* |
| AJ 2430 | 1 1/2 | 1 3/4 | 1.8750 | 1.8766 | 1.5002 | 1.5006 | 1.5000 | 1.5015 | H8 | 1.4980 | 1.4990 |



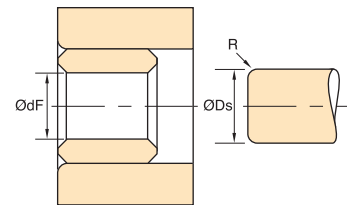
Fitting Pin



Free Bush



Flanged Bush



Fitted Bush

Shaft

Inch stock tolerances

Tolerances

Plain Bearings

Length: $L \leq 1\frac{1}{2}'' \pm 0.005''$
 $L > 1\frac{1}{2}'' \leq 3'' \pm 0.010''$

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

$d < \frac{1}{2}''$ 0.002" max
 $d > \frac{1}{2}''$ <math>1\frac{1}{2}'' 0.003" max
 $d > 1\frac{1}{2}''$ 0.004" max

Chamfers: 45° 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.

Flanged Bearings

Length: $L \leq 1\frac{1}{2}'' \pm 0.005''$
 $L > 1\frac{1}{2}'' \leq 3'' \pm 0.010''$

Flange thickness $e \pm 0.003''$
 Flange diameter $D1 \pm 0.005''$

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

$d < \frac{1}{2}''$ 0.002" max
 $d > \frac{1}{2}''$ <math>1\frac{1}{2}'' 0.003" max
 $d < 1\frac{1}{2}''$ 0.004" max

Oilite® Structural Parts

A leading force in precision component manufacturing

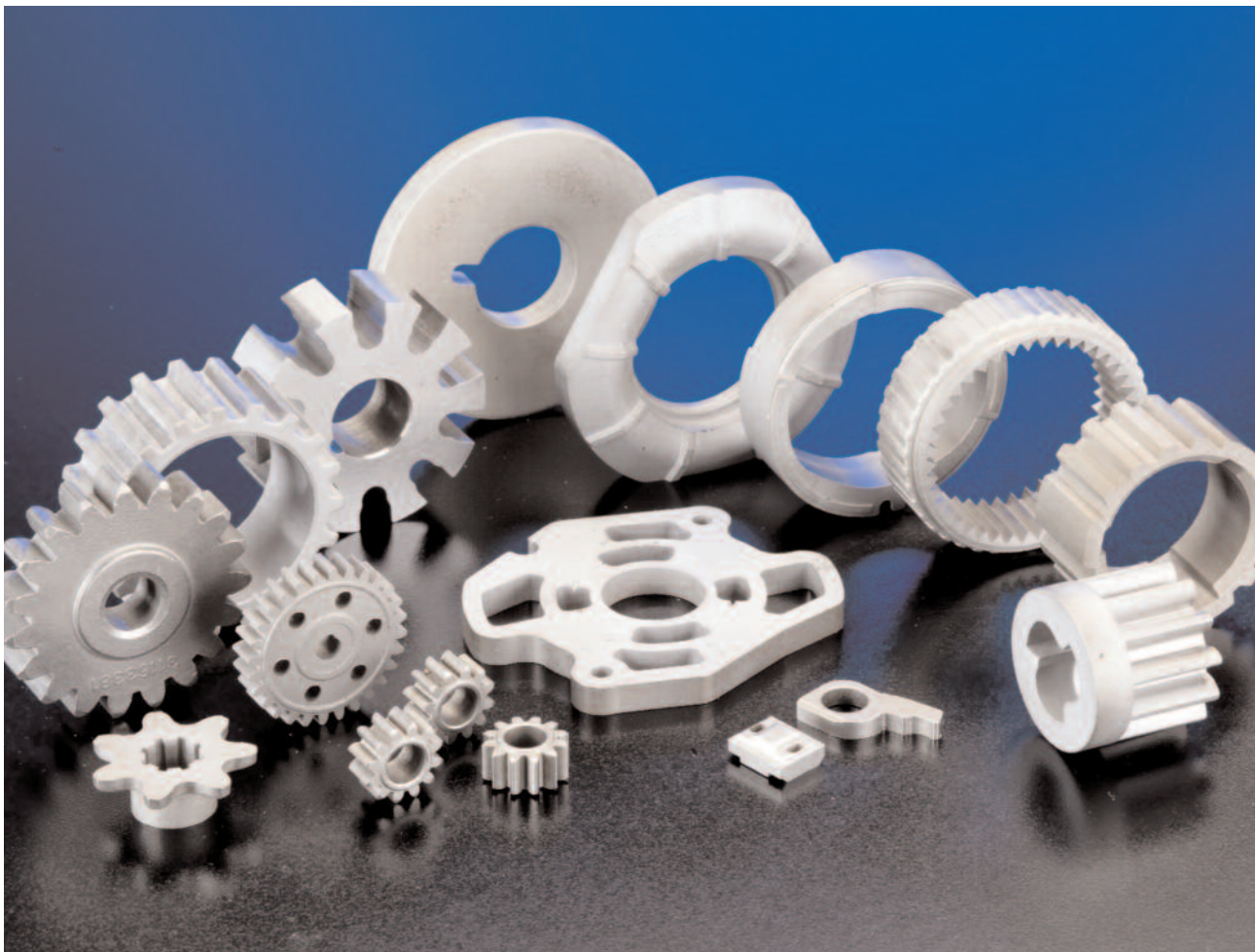
For almost 80 years OILITE® has been at the forefront of precision engineering component manufacture.

OILITE® products range from pump components, sprockets, ABS rings, gears, exhaust flanges to tooth belt pulleys. We service both European and World markets from our headquarters in the United Kingdom.

Innovative problem solving combined with our strong manufacturing and technical expertise puts us in the best possible position to service our markets.

Our flexible manufacturing approach and technical competence allows for tight deadlines, competitive pricing and comparatively small volumes as our systems are designed with our customers most pragmatic needs in mind. Our organisation is geared so that small volumes aren't a limiting factor and provide extremely cost-effective solutions.

OILITE®, working in partnership with our customers, deliver the best possible solutions to suit their needs. Our dedicated design, production, engineering and sales teams aim is to provide a personal service which will exceed our customers expectations.





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BEARINGS



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