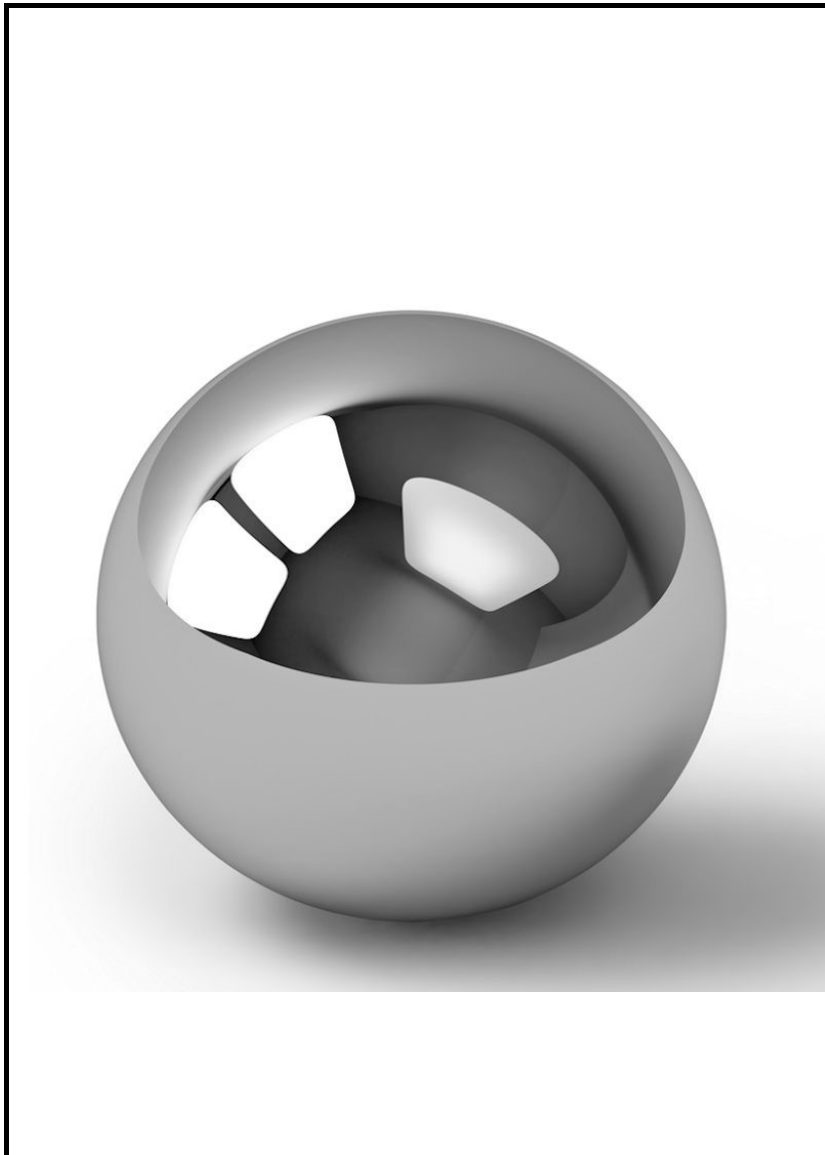


# MBA

# 2024.1

## Balls Range

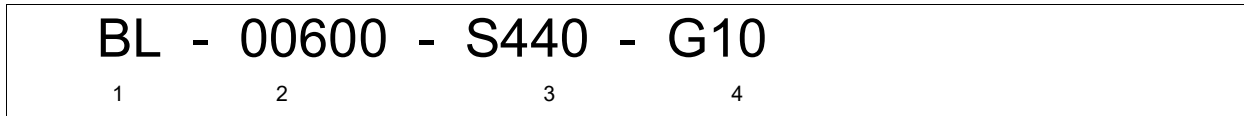
Precision - Commercial - Ceramic - Steel - Plastic - Rubber



<b>TYPE</b>	<b>PAGE</b>
Ceramic	3 - 6
- Black Glass	
- Fused Silica (Quartz)	
- Ruby - Sapphire	
- Silicon Nitride (Si3N4)	
- Zirconia (ZRO2)	
Fixture / Checking	7
Magnetic	8
Metallic	9 - 16
- Bronze	
- Chrome Steel	
- Stainless Steel	
- Threaded	
- Titanium	
- Tungsten Carbide	
Metallic - Bored	17
Plastic	18 - 22
- Acetal	
- Acrylic	
- Nylon	
- Polypropylene	
- PTFE	
- PVC	
Plastic - Bored	23
Rubber	24
Threaded	25
Tooling	26 - 28

To find and order parts online, simply type the part number from this catalogue into the search box on any web page.

# Prefixes and Suffixes



**1 Ball:**  
BL: Code for all balls

**2 Diameter:**  
Shifted 2 decimal places. 00600 is 6mm diameter

**3 Material:**  
AC: Acetal  
ACR: Acrylic  
CH: Bearing Grade Chrome Steel  
NY: Nylon  
PB: Phosphor Bronze  
PP: Polypropylene  
PTF: Polytetrafluoroethylene

PVC: Polyvinyl Chloride  
R40D: Santoprene Rubber 40D  
R87A: Santoprene Rubber 87A  
RY: Synthetic Ruby  
S4: AIS 304 Grade Stainless  
S440: 440C Bearing Grade Stainless.  
S6: AIS 316 Grade Stainless  
S6L: AIS 316L Grade Stainless

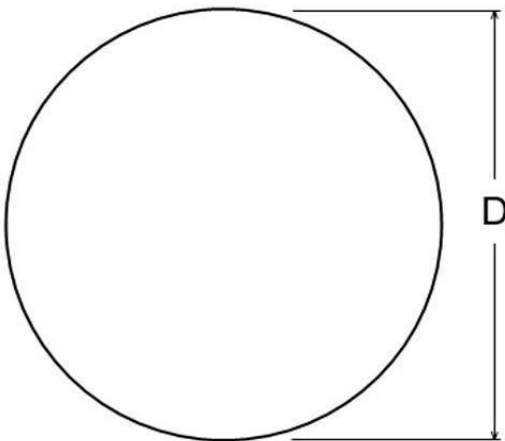
**Grade:**  
4 G10: AFBMA Grade 10

The lower the number the higher the precision of the ball. Refer to our website for a full description of AFBMA ball grading.

These are just some of the most commonly used suffixes. Please refer to MBA for information on suffixes not listed.

## Diagrams

**Basic Ball**



**Tooling / Inspection Ball**

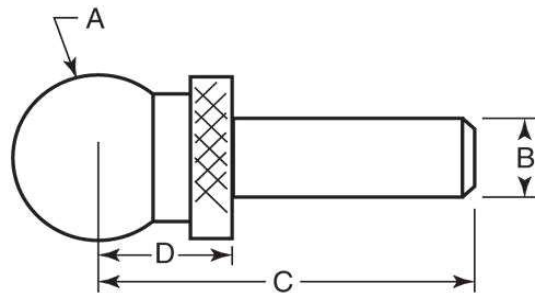






Diagram is for reference only. Not all tooling balls have shoulders. Please refer to the online listings for more comprehensive information.

# Ceramic Balls



Diameter (D) mm	Material	Precision Grade	Hardness	Part Number
0.150 (0.006") +/-0.00254	Synthetic Ruby	Grade 25	9 Mohs	BL-00015-RY-G25
0.150 (0.006") +/-0.00254	Synthetic Sapphire	Grade 25	9 Mohs	BL-00015-SP-G25
0.198 (0.008") +/-0.00254	Synthetic Ruby	Grade 25	9 Mohs	BL-00020-RY-G25
0.198 (0.008") +/-0.00254	Synthetic Sapphire	Grade 25	9 Mohs	BL-00020-SP-G25
0.300 (0.012") +/-0.00254	Synthetic Ruby	Grade 25	9 Mohs	BL-00030-RY-G25
0.300 (0.012") +/-0.00254	Synthetic Sapphire	Grade 25	9 Mohs	BL-00030-SP-G25
0.350 (0.014") +/-0.00254	Fused Silica	Grade 25	500 kg / sq.cm	BL-00035-FS-G25
0.351 (0.014") +/-0.00254	Synthetic Ruby	Grade 25	9 Mohs	BL-00035-RY-G25
0.351 (0.014") +/-0.00254	Synthetic Sapphire	Grade 25	9 Mohs	BL-00035-SP-G25
0.381 (0.015") +/-0.00254	Synthetic Sapphire	Grade 25	9 Mohs	BL-00038-SP-G25
0.381 (0.015") +/-0.00254	Synthetic Ruby	Grade 25	9 Mohs	BL-00038-RY-G25
0.397 (0.016") +/-0.00254	Synthetic Sapphire	Grade 25	9 Mohs	BL-00039-SP-G25
0.397 (0.016") +/-0.00254	Synthetic Ruby	Grade 25	9 Mohs	BL-00039-RY-G25
0.400 (0.016") +/-0.00254	ZRO2	Grade 25	1300 kg/mm.sq	BL-00040-ZR-G25
0.483 (0.019") +/-0.00254	Synthetic Ruby	Grade 25	9 Mohs	BL-00048-RY-G25
0.483 (0.019") +/-0.00254	Synthetic Sapphire	Grade 25	9 Mohs	BL-00048-SP-G25
0.500 (0.020") +/-0.00254	Fused Silica	Grade 25	500 kg / sq.cm	BL-00050-FS-G25
0.500 (0.020") +/-0.00254	Synthetic Ruby	Grade 25	9 Mohs	BL-00050-RY-G25
0.500 (0.020") +/-0.00254	Synthetic Sapphire	Grade 25	9 Mohs	BL-00050-SP-G25
0.579 (0.023") +/-0.00254	Fused Silica	Grade 25	500 kg / sq.cm	BL-00058-FS-G25
0.599 (0.024") +/-0.00254	Synthetic Ruby	Grade 25	9 Mohs	BL-00060-RY-G25
0.599 (0.024") +/-0.00254	Synthetic Sapphire	Grade 25	9 Mohs	BL-00060-SP-G25
0.653 (0.026") +/-0.00254	Synthetic Ruby	Grade 25	9 Mohs	BL-00065-RY-G25
0.653 (0.026") +/-0.00254	Synthetic Sapphire	Grade 25	9 Mohs	BL-00065-SP-G25
0.673 (0.026") +/-0.00254	Synthetic Ruby	Grade 25	9 Mohs	BL-00067-RY-G25
0.673 (0.026") +/-0.00254	Synthetic Sapphire	Grade 25	9 Mohs	BL-00067-SP-G25
0.794 (0.031") +/-0.00254	ZRO2	Grade 25	1300 kg/mm.sq	BL-00079-ZR-G25
0.794 (0.031") +/-0.00254	Synthetic Ruby	Grade 25	9 Mohs	BL-00079-RY-G25
0.794 (0.031") +/-0.00254	Synthetic Sapphire	Grade 25	9 Mohs	BL-00079-SP-G25
1.000 (0.039") +/-0.00254	Fused Silica	Grade 25	500 kg / sq.cm	BL-00100-FS-G25
1.000 (0.039") +/-0.00254	Black Glass	Grade 25	570 kg / sq.cm	BL-00100-BG-G25
1.000 (0.039") +/-0.00254	Synthetic Ruby	Grade 25	9 Mohs	BL-00100-RY-G25
1.000 (0.039") +/-0.00254	Synthetic Sapphire	Grade 25	9 Mohs	BL-00100-SP-G25
1.199 (0.047") +/-0.00254	Synthetic Ruby	Grade 25	9 Mohs	BL-00120-RY-G25



 Usually stocked or Short Delivery  
 \*\* Available while stocks last \*\*

 Long Delivery or Large Minimum Quantities  
 Not in current production

# Ceramic Balls



Diameter (D) mm	Material	Precision Grade	Hardness	Part Number
1.199 (0.047") +/-0.00254	Synthetic Sapphire	Grade 25	9 Mohs	BL-00120-SP-G25
1.500 (0.059") +/-0.00254	Fused Silica	Grade 25	500 kg / sq.cm	BL-00150-FS-G25
1.501 (0.059") +/-0.00254	Synthetic Ruby	Grade 25	9 Mohs	BL-00150-RY-G25
1.501 (0.059") +/-0.00254	Synthetic Sapphire	Grade 25	9 Mohs	BL-00150-SP-G25
1.588 (0.063") +/-0.00254	ZRO2	Grade 25	1300 kg/mm.sq	BL-00159-ZR-G25
1.588 (0.063") +/-0.00254	Si3N4	Grade 25	1580 kg/mm.sq	BL-00159-SN-G25
1.588 (0.063") +/-0.00254	Black Glass	Grade 25	570 kg / sq.cm	BL-00159-BG-G25
1.588 (0.063") +/-0.00254	Synthetic Sapphire	Grade 25	9 Mohs	BL-00159-SP-G25
1.588 (0.063") +/-0.00254	Synthetic Ruby	Grade 25	9 Mohs	BL-00159-RY-G25
2.000 (0.079") +/-0.00254	ZRO2	Grade 25	1300 kg/mm.sq	BL-00200-ZR-G25
2.000 (0.079") +/-0.00254	Fused Silica	Grade 25	500 kg / sq.cm	BL-00200-FS-G25
2.000 (0.079") +/-0.00254	Black Glass	Grade 25	570 kg / sq.cm	BL-00200-BG-G25
2.000 (0.079") +/-0.00254	Synthetic Ruby	Grade 25	9 Mohs	BL-00200-RY-G25
2.000 (0.079") +/-0.00254	Synthetic Sapphire	Grade 25	9 Mohs	BL-00200-SP-G25
2.381 (0.094") +/-0.00254	Si3N4	Grade 25	1580 kg/mm.sq	BL-00238-SN-G25
2.381 (0.094") +/-0.00254	Synthetic Ruby	Grade 25	9 Mohs	BL-00238-RY-G25
2.381 (0.094") +/-0.00254	Synthetic Sapphire	Grade 25	9 Mohs	BL-00238-SP-G25
2.388 (0.094") +/-0.00254	ZRO2	Grade 25	1300 kg/mm.sq	BL-00238-ZR-G25
2.499 (0.098") +/-0.00254	Synthetic Sapphire	Grade 25	9 Mohs	BL-00250-SP-G25
2.499 (0.098") +/-0.00254	Synthetic Ruby	Grade 25	9 Mohs	BL-00250-RY-G25
2.500 (0.098") +/-0.00254	Si3N4	Grade 25	1580 kg/mm.sq	BL-00250-SN-G25
2.500 (0.098") +/-0.00254	Fused Silica	Grade 25	500 kg / sq.cm	BL-00250-FS-G25
2.779 (0.109") +/-0.00254	Synthetic Ruby	Grade 25	9 Mohs	BL-00278-RY-G25
2.779 (0.109") +/-0.00254	Synthetic Sapphire	Grade 25	9 Mohs	BL-00278-SP-G25
3.000 (0.118") +/-0.00254	ZRO2	Grade 25	1300 kg/mm.sq	BL-00300-ZR-G25
3.000 (0.118") +/-0.00254	Si3N4	Grade 10	1580 kg/mm.sq	BL-00300-SN-G10
3.000 (0.118") +/-0.00254	Fused Silica	Grade 25	500 kg / sq.cm	BL-00300-FS-G25
3.000 (0.118") +/-0.00254	Synthetic Ruby	Grade 25	9 Mohs	BL-00300-RY-G25
3.000 (0.118") +/-0.00254	Synthetic Sapphire	Grade 25	9 Mohs	BL-00300-SP-G25
3.175 (0.125") +/-0.00254	ZRO2	Grade 25	1300 kg/mm.sq	BL-00318-ZR-G25
3.175 (0.125") +/-0.01270	Si3N4	Grade 100	1580 kg/mm.sq	** BL-00318-SN-G100
3.175 (0.125") +/-0.00254	Si3N4	Grade 25	1580 kg/mm.sq	BL-00318-SN-G25
3.175 (0.125") +/-0.00254	Black Glass	Grade 25	570 kg / sq.cm	BL-00318-BG-G25
3.175 (0.125") +/-0.00254	Synthetic Ruby	Grade 25	9 Mohs	BL-00318-RY-G25



 Usually stocked or Short Delivery  
 \*\* Available while stocks last \*\*

 Long Delivery or Large Minimum Quantities  
 Not in current production

# Ceramic Balls



Diameter (D) mm	Material	Precision Grade	Hardness	Part Number
3.175 (0.125") +/-0.00254	Synthetic Sapphire	Grade 25	9 Mohs	BL-00318-SP-G25
3.500 (0.138") +/-0.00254	Si3N4	Grade 25	1580 kg/mm.sq	BL-00350-SN-G25
3.969 (0.156") +/-0.00254	Si3N4	Grade 25	1580 kg/mm.sq	BL-00397-SN-G25
3.969 (0.156") +/-0.00254	Black Glass	Grade 25	570 kg / sq.cm	BL-00397-BG-G25
3.969 (0.156") +/-0.00254	Synthetic Sapphire	Grade 25	9 Mohs	BL-00397-SP-G25
3.969 (0.156") +/-0.00254	Synthetic Ruby	Grade 25	9 Mohs	BL-00397-RY-G25
4.000 (0.157") +/-0.00254	ZRO2	Grade 25	1300 kg/mm.sq	BL-00400-ZR-G25
4.000 (0.157") +/-0.00254	Si3N4	Grade 25	1580 kg/mm.sq	BL-00400-SN-G25
4.000 (0.157") +/-0.00254	Fused Silica	Grade 25	500 kg / sq.cm	BL-00400-FS-G25
4.000 (0.157") +/-0.00254	Synthetic Ruby	Grade 25	9 Mohs	BL-00400-RY-G25
4.000 (0.157") +/-0.00254	Synthetic Sapphire	Grade 25	9 Mohs	BL-00400-SP-G25
4.763 (0.188") +/-0.00254	ZRO2	Grade 25	1300 kg/mm.sq	BL-00476-ZR-G25
4.763 (0.188") +/-0.00254	Si3N4	Grade 25	1580 kg/mm.sq	BL-00476-SN-G25
4.763 (0.188") +/-0.00254	Black Glass	Grade 25	570 kg / sq.cm	BL-00476-BG-G25
4.763 (0.188") +/-0.00254	Synthetic Ruby	Grade 25	9 Mohs	BL-00476-RY-G25
4.763 (0.188") +/-0.00254	Synthetic Sapphire	Grade 25	9 Mohs	BL-00476-SP-G25
5.000 (0.197") +/-0.00254	ZRO2	Grade 25	1300 kg/mm.sq	BL-00500-ZR-G25
5.000 (0.197") +/-0.00254	Si3N4	Grade 25	1580 kg/mm.sq	BL-00500-SN-G25
5.000 (0.197") +/-0.00254	Fused Silica	Grade 25	500 kg / sq.cm	BL-00500-FS-G25
5.000 (0.197") +/-0.00254	Synthetic Sapphire	Grade 25	9 Mohs	BL-00500-SP-G25
5.000 (0.197") +/-0.00254	Synthetic Ruby	Grade 25	9 Mohs	BL-00500-RY-G25
5.556 (0.219") +/-0.00254	Black Glass	Grade 25	570 kg / sq.cm	BL-00555-BG-G25
5.556 (0.219") +/-0.00254	Synthetic Ruby	Grade 25	9 Mohs	BL-00556-RY-G25
5.556 (0.219") +/-0.00254	Synthetic Sapphire	Grade 25	9 Mohs	BL-00556-SP-G25
6.000 (0.236") +/-0.00254	Si3N4	Grade 25	1580 kg/mm.sq	BL-00600-SN-G25
6.000 (0.236") +/-0.00254	Fused Silica	Grade 25	500 kg / sq.cm	BL-00600-FS-G25
6.000 (0.236") +/-0.00254	Synthetic Sapphire	Grade 25	9 Mohs	BL-00600-SP-G25
6.000 (0.236") +/-0.00254	Synthetic Ruby	Grade 25	9 Mohs	BL-00600-RY-G25
6.350 (0.250") +/-0.00254	ZRO2	Grade 25	1300 kg/mm.sq	BL-00635-ZR-G25
6.350 (0.250") +/-0.00254	Si3N4	Grade 25	1580 kg/mm.sq	BL-00635-SN-G25
6.350 (0.250") +/-0.00254	Black Glass	Grade 25	570 kg / sq.cm	BL-00635-BG-G25
6.350 (0.250") +/-0.00254	Synthetic Ruby	Grade 25	9 Mohs	BL-00635-RY-G25
6.350 (0.250") +/-0.00254	Synthetic Sapphire	Grade 25	9 Mohs	BL-00635-SP-G25
7.938 (0.313") +/-0.00254	Si3N4	Grade 25	1580 kg/mm.sq	BL-00794-SN-G25



 Usually stocked or Short Delivery  
 \*\* Available while stocks last \*\*

 Long Delivery or Large Minimum Quantities  
 Not in current production

# Ceramic Balls

Diameter (D) mm	Material	Precision Grade	Hardness	Part Number
7.938 (0.313") +/-0.00254	Black Glass	Grade 25	570 kg / sq.cm	BL-00794-BG-G25
7.938 (0.313") +/-0.00254	Synthetic Sapphire	Grade 25	9 Mohs	BL-00794-SP-G25
7.938 (0.313") +/-0.00254	Synthetic Ruby	Grade 25	9 Mohs	BL-00794-RY-G25
8.000 (0.315") +/-0.00254	Si3N4	Grade 25	1580 kg/mm.sq	BL-00800-SN-G25
8.000 (0.315") +/-0.00254	Fused Silica	Grade 25	500 kg / sq.cm	BL-00800-FS-G25
9.525 (0.375") +/-0.00254	ZRO2	Grade 25	1300 kg/mm.sq	BL-00953-ZR-G25
9.525 (0.375") +/-0.00254	Si3N4	Grade 25	1580 kg/mm.sq	BL-00953-SN-G25
9.525 (0.375") +/-0.00254	Black Glass	Grade 25	570 kg / sq.cm	BL-00953-BG-G25
9.525 (0.375") +/-0.00254	Synthetic Ruby	Grade 25	9 Mohs	BL-00953-RY-G25
9.525 (0.375") +/-0.00254	Synthetic Sapphire	Grade 25	9 Mohs	BL-00953-SP-G25
10.000 (0.394") +/-0.00254	ZRO2	Grade 25	1300 kg/mm.sq	BL-01000-ZR-G25
10.000 (0.394") +/-0.00254	Si3N4	Grade 25	1580 kg/mm.sq	BL-01000-SN-G25
10.318 (0.406") +/-0.00254	Si3N4	Grade 25	1580 kg/mm.sq	BL-01032-SN-G25
12.000 (0.472") +/-0.00254	Si3N4	Grade 25	1580 kg/mm.sq	BL-01200-SN-G25
12.700 (0.500") +/-0.007620	ZRO2	Grade 60	1300 kg/mm.sq	BL-01270-ZR-G60
12.700 (0.500") +/-0.00254	Si3N4	Grade 25	1580 kg/mm.sq	BL-01270-SN-G25
12.700 (0.500") +/-0.00254	Black Glass	Grade 25	570 kg / sq.cm	BL-01270-BG-G25
13.490 (0.531") +/-0.001	Si3N4	Grade 10	1580 kg/mm.sq	** BL-01349-SN-G10-U4
13.494 (0.531") +/-0.00254	Si3N4	Grade 10	1580 kg/mm.sq	BL-01349-SN-G10
15.081 (0.594") +/-0.007620	Si3N4	Grade 60	1580 kg/mm.sq	BL-01508-SN-G60
15.875 (0.625") +/-0.007620	ZRO2	Grade 60	1300 kg/mm.sq	BL-01588-ZR-G60
15.875 (0.625") +/-0.007620	Si3N4	Grade 60	1580 kg/mm.sq	BL-01588-SN-G60
16.000 (0.630") +/-0.00254	Si3N4	Grade 10	1580 kg/mm.sq	BL-01600-SN-G10
17.463 (0.688") +/-0.007620	Si3N4	Grade 60	1580 kg/mm.sq	BL-01746-SN-G60
18.000 (0.709") +/-0.007620	ZRO2	Grade 60	1300 kg/mm.sq	BL-01800-ZR-G60
19.050 (0.750") +/-0.007620	ZRO2	Grade 60	1300 kg/mm.sq	BL-01905-ZR-G60
19.050 (0.750") +/-0.007620	Si3N4	Grade 60	1580 kg/mm.sq	BL-01905-SN-G60
19.050 (0.750") +/-0.00254	Si3N4	Grade 10	1580 kg/mm.sq	BL-01905-SN-G10

 Usually stocked or Short Delivery  
 \*\* Available while stocks last \*\*

 Long Delivery or Large Minimum Quantities  
 Not in current production

# Fixture and Checking Balls

Diameter (A) mm	Shank Diameter (D) mm	Base to Centre (B) mm	Shoulder to Centre (C) mm		Part Number
3.175 (0.125") +/- 0.0051	3.188 +/- 0.0051	9.525 +/- 0.1270	2.383	Stainless Steel	BCHK-00318-S440
6.350 (0.250") +/- 0.0025	3.167 +0/- 0.0051	14.224 +/- 0.127		Stainless Steel	BFX-00635-S440
6.350 (0.250") +/- 0.0013	3.167 +/- 0.1270	14.224 +/- 0.0076		Tungsten Carbide	BFX-00635-TC
6.350 (0.250") +/- 0.0051	3.167 +/- 0.0051	14.224 +/- 0.1270	5.080	Stainless Steel	BCHK-00635-S440
6.350 (0.250") +/- 0.0051	3.167 +/- 0.0051	14.224 +/- 0.1270	5.080	Tungsten Carbide	BCHK-00635-TC
6.350 (0.250") +0.0/-0.0051	3.167 +0.0/-0.0051	14.732 +/-0.0051	5.080	Carbon Steel	BIN-00635-HS-SOL
9.525 (0.375") +0.0/-0.0051	4.755 +0.0/-0.0051	18.796 +/-0.0051	7.620	Carbon Steel	BIN-00953-HS-SOL
9.525 (0.375") +/- 0.0013	4.755 +/- 0.1270	19.050 +/- 0.0076		Tungsten Carbide	BFX-00953-TC
9.525 (0.375") +/- 0.0025	4.755 +0/- 0.0051	19.050 +/- 0.127		Stainless Steel	BFX-00953-S440
9.525 (0.375") +/- 0.0051	4.755 +/- 0.0051	19.050 +/- 0.1270	7.620	Tungsten Carbide	BCHK-00953-TC
9.525 (0.375") +/- 0.0051	4.755 +/- 0.0051	19.050 +/- 0.1270	7.620	Stainless Steel	BCHK-00953-S440
9.525 (0.375") +0.0/-0.0051	7.938 +0.0/-0.0051	18.796 +/-0.0051	7.620	Carbon Steel	BIN-00953-HS
12.700 (0.500") +0.0/-0.0051	6.342 +0.0/-0.0051	16.002 +/-0.0051	7.938	Carbon Steel	BIN-01270-HS-A
12.700 (0.500") +0.0/-0.0051	6.342 +0.0/-0.0051	22.352 +/-0.0051	12.700	Carbon Steel	BIN-01270-HS-B
12.700 (0.500") +0.0/-0.0051	6.342 +0.0/-0.0051	23.622 +/-0.0051	10.160	Carbon Steel	BIN-01270-HS-C
12.700 (0.500") +/- 0.0025	6.342 +0/- 0.0051	23.876 +/- 0.127		Stainless Steel	BFX-01270-S440
12.700 (0.500") +/- 0.0051	6.342 +/- 0.0051	23.876 +/- 0.1270	10.160	Tungsten Carbide	BCHK-01270-TC
12.700 (0.500") +/- 0.0051	6.342 +/- 0.0051	23.876 +/- 0.1270	10.160	Stainless Steel	BCHK-01270-S440
12.700 (0.500") +/- 0.00051	6.350 +0/-0.0051	24.384	7.938	Stainless Steel	BCHK-01270-S440T
12.700 (0.500") +0.0/-0.0051	9.525 +0.0/-0.0051	33.274 +/-0.0051	9.525	Carbon Steel	BIN-01270-HS-D
15.875 (0.625") +/- 0.0025	7.930 +0/- 0.0051	26.924 +/- 0.127		Stainless Steel	BFX-01588-S440
15.875 (0.625") +/- 0.0051	7.930 +/- 0.0051	26.924 +/- 0.1270	11.430	Stainless Steel	BCHK-01588-S440
15.875 (0.625") +0.0/-0.0051	7.930 +0.0/-0.0051	27.432 +/-0.0051	11.430	Carbon Steel	BIN-01588-HS-A
15.875 (0.625") +0.0/-0.0051	9.525 +0.0/-0.0051	36.068 +/-0.0051	11.430	Carbon Steel	BIN-01588-HS-B
19.050 (0.750") +/- 0.0025	9.517 +0/- 0.0051	31.750 +/- 0.127		Stainless Steel	BFX-01905-S440
19.050 (0.750") +/- 0.0127	9.517 +/- 0.0051	31.750 +/- 0.1270	12.700	Stainless Steel	BCHK-01905-S440
19.050 (0.750") +/- 0.0127	9.517 +/- 0.0051	31.750 +/- 0.1270	12.700	Tungsten Carbide	BCHK-01905-TC
19.050 (0.750") +0.0/-0.0051	9.525 +0.0/-0.0051	38.862 +/-0.0051	14.288	Carbon Steel	BIN-01905-HS
22.225 (0.875") +/- 0.0127	11.105 +/- 0.0051	36.576 +/- 0.1270	15.240	Stainless Steel	BCHK-02223-S440
25.400 (1.000") +/- 0.0025	12.692 +0/- 0.0051	41.148 +/- 0.127		Stainless Steel	BFX-02540-S440
25.400 (1.000") +/- 0.0127	12.692 +/- 0.0051	41.148 +/- 0.1270	17.780	Stainless Steel	BCHK-02540-S440
25.400 (1.000") +0.0/-0.0051	12.700 +0.0/-0.0051	41.656 +/-0.0051	17.780	Carbon Steel	BIN-02540-HS



Usually stocked or Short Delivery  
 \*\* Available while stocks last \*\*



Long Delivery or Large Minimum Quantities  
 Not in current production



# Magnetic Balls

Diameter (D) mm	Material	Precision Grade	Hardness	Part Number
1.000 (0.039") -0.00 / +0.10	Neodymium N-40 -0.10 / +0.00	Not Applicable -0.12 / +0.00	Absorption Power 0.1 N	BL-00100-MAGN40
1.500 (0.059") -0.00 / +0.10	Neodymium N-40 -0.10 / +0.00	Not Applicable -0.12 / +0.00	Absorption Power 0.2 N	BL-00150-MAGN40
2.000 (0.079") -0.00 / +0.10	Neodymium N-40 -0.10 / +0.00	Not Applicable -0.12 / +0.00	Absorption Power 0.4 N	BL-00200-MAGN40
2.350 (0.093") -0.00 / +0.10	Neodymium N-40 -0.10 / +0.00	Not Applicable -0.12 / +0.00	Absorption Power 0.5 N	BL-00235-MAGN40
2.500 (0.098") -0.00 / +0.10	Neodymium N-40 -0.10 / +0.00	Not Applicable -0.12 / +0.00	Absorption Power 0.6 N	BL-00250-MAGN40
3.000 (0.118") -0.00 / +0.10	Neodymium N-40 -0.10 / +0.00	Not Applicable -0.12 / +0.00	Absorption Power 2.45 N	BL-00300-MAGN40
3.000 (0.118") -0.00 / +0.10	Neodymium -0.10 / +0.00	Not Applicable -0.12 / +0.00		BL-00300-MAGN
3.500 (0.138") -0.00 / +0.10	Neodymium N-40 -0.10 / +0.00	Not Applicable -0.12 / +0.00	Absorption Power 1.4 N	BL-00350-MAGN40
4.000 (0.157") -0.00 / +0.10	Neodymium N-40 -0.10 / +0.00	Not Applicable -0.12 / +0.00	Absorption Power 1.8 N	BL-00400-MAGN40
4.500 (0.177") -0.00 / +0.10	Neodymium N-40 -0.10 / +0.00	Not Applicable -0.12 / +0.00	Absorption Power 2.7 N	BL-00450-MAGN40
5.000 (0.197") -0.00 / +0.10	Neodymium N-40 -0.10 / +0.00	Not Applicable -0.12 / +0.00	Absorption Power 3.1 N	BL-00500-MAGN40
5.000 (0.197") -0.00 / +0.10	Neodymium -0.10 / +0.00	Not Applicable -0.12 / +0.00		BL-00500-MAGN
6.000 (0.236")	Neodymium N-40	Not Applicable	Absorption Power 4.9 N	BL-00600-MAGN40
6.000 (0.236")	Isotropic Ferrite	Not Applicable		BL-00600-MAGIF
6.350 (0.250")	Neodymium N-40	Not Applicable	Absorption Power 5.3 N	BL-00635-MAGN40
7.000 (0.276")	Neodymium N-40	Not Applicable	Absorption Power 7.1 N	BL-00700-MAGN40
8.000 (0.315")	Neodymium N-40	Not Applicable	Absorption Power 9 N	BL-00800-MAGN40
8.000 (0.315") -0.00 / +0.10	Neodymium -0.10 / +0.00	Not Applicable -0.12 / +0.00		BL-00800-MAGN
8.000 (0.315")	Isotropic Ferrite	Not Applicable		BL-00800-MAGIF
9.000 (0.354")	Neodymium N-40	Not Applicable	Absorption Power 10.8 N	BL-00900-MAGN40
9.530 (0.375")	Neodymium N-40	Not Applicable	Absorption Power 13.5 N	BL-00953-MAGN40
10.000 (0.394") -0.00 / +0.10	Neodymium N-40 -0.10 / +0.00	Not Applicable -0.12 / +0.00	Absorption Power 15.68 N	BL-01000-MAGN40
10.000 (0.394")	Isotropic Ferrite	Not Applicable	Absorption Power 0.3 N	BL-01000-MAGIF
10.000 (0.394") -0.00 / +0.10	Neodymium -0.10 / +0.00	Not Applicable -0.12 / +0.00		BL-01000-MAGN
12.000 (0.472")	Isotropic Ferrite	Not Applicable	Absorption Power 0.5 N	BL-01200-MAGIF
12.700 (0.500")	Neodymium N-40	Not Applicable	Absorption Power 20.7 N	BL-01270-MAGN40
15.000 (0.591") -0.00 / +0.10	Neodymium -0.10 / +0.00	Not Applicable -0.12 / +0.00		BL-01500-MAGN
15.000 (0.591")	Neodymium N-40	Not Applicable	Absorption Power 29 N	BL-01500-MAGN40
15.000 (0.591")	Isotropic Ferrite	Not Applicable	Absorption Power 2.3 N	BL-01500-MAGIF
20.000 (0.787")	Neodymium N-40	Not Applicable	Absorption Power 51.9 N	BL-02000-MAGN40
20.000 (0.787")	Isotropic Ferrite	Not Applicable	Absorption Power 6.4 N	BL-02000-MAGIF
25.000 (0.984")	Isotropic Ferrite	Not Applicable	Absorption Power 8.1 N	BL-02500-MAGIF
25.000 (0.984") -0.00 / +0.10	Neodymium N-35 -0.10 / +0.00	Not Applicable -0.12 / +0.00	Absorption Power 78.4 N	BL-02500-MAGN35
25.400 (1.000")	Neodymium N-40	Not Applicable	Absorption Power 86.2 N	BL-02540-MAGN40
30.000 (1.181")	Neodymium N-40	Not Applicable	Absorption Power 122.5 N	BL-03000-MAGN40
40.000 (1.575")	Neodymium N-40	Not Applicable	Absorption Power 225.4 N	BL-04000-MAGN40

 Usually stocked or Short Delivery  
 \*\* Available while stocks last \*\*

 Long Delivery or Large Minimum Quantities  
 Not in current production



# Metallic Balls

Diameter (D) mm	Material	Precision Grade	Hardness	Part Number
0.200 (0.008") +/-0.000762	440C Stainless	Grade 3	55-60 Rockwell C	BL-00020-S440-G3
0.250 (0.010") +/-0.000762	440C Stainless	Grade 3	55-60 Rockwell C	BL-00025-S440-G3
0.397 (0.016") +/-0.000762	SAE52100 Chrome	Grade 3	60-70 Rockwell C	BL-00039-CH-G3
0.397 (0.016") +/-0.000762	440C Stainless	Grade 3	55-60 Rockwell C	BL-00039-S440-G3
0.400 (0.016") +/-0.00254	SAE52100 Chrome	Grade 28	60-70 Rockwell C	BL-00040-CH-G28
0.500 (0.020") +/-0.00254	Tungsten Carbide	Grade 25	91.5 Rockwell A	BL-00050-TC-G25
0.500 (0.020") +/-0.000762	440C Stainless	Grade 3	55-60 Rockwell C	BL-00050-S440-G3
0.600 (0.024") +/-0.000762	440C Stainless	Grade 3	55-60 Rockwell C	BL-00060-S440-G3
0.650 (0.026") +/-0.000762	440C Stainless	Grade 3	55-60 Rockwell C	BL-00065-S440-G3
0.700 (0.028") +/-0.00254	SAE52100 Chrome	Grade 28	60-70 Rockwell C	BL-00070-CH-G28
0.794 (0.031") +/-0.000762	440C Stainless	Grade 3	55-60 Rockwell C	BL-00079-S440-G3
1.000 (0.039") +/-0.00254	SAE52100 Chrome	Grade 16	60-70 Rockwell C	BL-00100-CH-G16
1.000 (0.039") +/-0.00254	Tungsten Carbide	Grade 25	91.5 Rockwell A	BL-00100-TC-G25
1.000 (0.039") +/-0.000762	440C Stainless	Grade 3	55-60 Rockwell C	BL-00100-S440-G3
1.000 (0.039") +/-0.00254	440C Stainless	Grade 10	55-60 Rockwell C	BL-00100-S440-G10
1.150 (0.045") +/-0.000762	440C Stainless	Grade 3	55-60 Rockwell C	BL-00115-S440-G3
1.191 (0.047") +/-0.000762	SAE52100 Chrome	Grade 3	60-70 Rockwell C	BL-00119-CH-G3
1.191 (0.047") +/-0.000762	440C Stainless	Grade 3	55-60 Rockwell C	BL-00119-S440-G3
1.191 (0.047") +/-0.00254	440C Stainless	Grade 20	55-60 Rockwell C	BL-00119-S440-G20
1.200 (0.047") +/-0.00254	SAE52100 Chrome	Grade 28	60-70 Rockwell C	BL-00120-CH-G28
1.250 (0.049") +/-0.000762	440C Stainless	Grade 3	55-60 Rockwell C	** BL-00125-S440-G3
1.450 (0.057") +/-0.000762	440C Stainless	Grade 3	55-60 Rockwell C	** BL-00145-S440-G3
1.500 (0.059") +/-0.00254	SAE52100 Chrome	Grade 28	60-70 Rockwell C	BL-00150-CH-G28
1.500 (0.059") +/-0.1270	SAE52100 Chrome	Grade 2000	60-70 Rockwell C	BL-00150-CH-G2000-1KG
1.500 (0.059") +/-0.000762	440C Stainless	Grade 3	55-60 Rockwell C	BL-00150-S440-G3
1.500 (0.059") +/-0.00254	440C Stainless	Grade 10	55-60 Rockwell C	BL-00150-S440-G10
1.588 (0.063") +/-0.00254	SAE52100 Chrome	Grade 25	60-70 Rockwell C	BL-00159-CH-G25
1.588 (0.063") +/-0.01270	304 Stainless	Grade 100	25-39 Rockwell C	BL-00159-S4-G100-P10K
1.588 (0.063") +/-0.01270	304 Stainless	Grade 100	25-39 Rockwell C	BL-00159-S4-G100
1.588 (0.063") +/-0.01270	316 Stainless	Grade 100	25-39 Rockwell C	BL-00159-S6-G100
1.588 (0.063") +/-0.000762	440C Stainless	Grade 3	55-60 Rockwell C	BL-00159-S440-G3
1.588 (0.063") +/-0.00254	440C Stainless	Grade 10	55-60 Rockwell C	BL-00159-S440-G10
1.750 (0.069") +/-0.000762	440C Stainless	Grade 3	55-60 Rockwell C	BL-00175-S440-G3
1.915 (0.075") +/-0.000762	440C Stainless	Grade 3	55-60 Rockwell C	BL-00192-S440-G3

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Long Delivery or Large Minimum Quantities  
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# Metallic Balls



Diameter (D) mm	Material	Precision Grade	Hardness	Part Number
2.000 (0.079") +/-0.00254	SAE52100 Chrome	Grade 25	60-70 Rockwell C	BL-00200-CH-G25
2.000 (0.079") +/-0.00254	Tungsten Carbide - 6% Nickel Binder	Grade 25	91.5 Rockwell A	BL-00200-TC-G25
2.000 (0.079") +/-0.01270	304 Stainless	Grade 100	25-39 Rockwell C	BL-00200-S4-G100
2.000 (0.079") +/-0.01270	316 Stainless	Grade 100	25-39 Rockwell C	BL-00200-S6-G100-B
2.000 (0.079") +/-0.01270	316 Stainless	Grade 100	25-39 Rockwell C	BL-00200-S6-G100
2.000 (0.079") +/-0.050800	316 Stainless	Grade 400	25-39 Rockwell C	BL-00200-S6-G400-B
2.000 (0.079") +/-0.00254	440C Stainless	Grade 10	55-60 Rockwell C	BL-00200-S440-G10
2.100 (0.083") +/-0.000762	440C Stainless	Grade 3	55-60 Rockwell C	** BL-00210-S440-G3
2.381 (0.094") +/-0.00254	SAE52100 Chrome	Grade 25	60-70 Rockwell C	BL-00238-CH-G25
2.381 (0.094") +/-0.00254	Tungsten Carbide	Grade 25	91.5 Rockwell A	BL-00238-TC-G25
2.381 (0.094") +/-0.01270	304 Stainless	Grade 100	25-39 Rockwell C	BL-00238-S4-G100
2.381 (0.094") +/-0.01270	316 Stainless	Grade 200	25-39 Rockwell C	BL-00238-S6-G200
2.381 (0.094") +/-0.00254	440C Stainless	Grade 28	55-60 Rockwell C	BL-00238-S440-G28
2.381 (0.094") +/-0.007620	440C Stainless	Grade 60	55-60 Rockwell C	BL-00238-S440-G60
2.381 (0.094") +/-0.000762	440C Stainless	Grade 3	55-60 Rockwell C	** BL-00238-S440-G3
2.450 (0.096") +/-0.000762	SAE52100 Chrome	Grade 3	60-70 Rockwell C	BL-00245-CH-G3
2.450 (0.096") +/-0.000762	440C Stainless	Grade 3	55-60 Rockwell C	** BL-00245-S440-G3
2.500 (0.098") +/-0.00254	SAE52100 Chrome	Grade 28	60-70 Rockwell C	BL-00250-CH-G28
2.500 (0.098") +/-0.00254	440C Stainless	Grade 10	55-60 Rockwell C	BL-00250-S440-G10
2.500 (0.098") +/-0.005080	440C Stainless	Grade 40	55-60 Rockwell C	** BL-00250-S440-G40
2.500 (0.098") +/-0.000762	440C Stainless	Grade 3	55-60 Rockwell C	BL-00250-S440-G3
2.778 (0.109") +/-0.000762	440C Stainless	Grade 3	55-60 Rockwell C	BL-00278-S440-G3
2.778 (0.109") +/-0.005080	440C Stainless	Grade 40	55-60 Rockwell C	BL-00278-S440-G40
3.000 (0.118") +/-0.00254	SAE52100 Chrome	Grade 28	60-70 Rockwell C	BL-00300-CH-G28
3.000 (0.118") +/-0.00254	Tungsten Carbide	Grade 25	91.5 Rockwell A	BL-00300-TC-G25
3.000 (0.118") +/-0.01270	Ti-Gr23/Ti-6AL4V-ELI	Grade 100	35 Rockwell C	BL-00300-T23-G100
3.000 (0.118") +/-0.01270	304 Stainless	Grade 200	25-39 Rockwell C	BL-00300-S4-G200
3.000 (0.118") +/-0.01270	316 Stainless	Grade 200	25-39 Rockwell C	BL-00300-S6-G200
3.000 (0.118") +/-0.00254	440C Stainless	Grade 16	55-60 Rockwell C	BL-00300-S440-G16
3.175 (0.125") +/-0.00254	SAE52100 Chrome	Grade 25	60-70 Rockwell C	BL-00318-CH-G25
3.175 (0.125") +/-0.00254	Tungsten Carbide	Grade 25	91.5 Rockwell A	BL-00318-TC-G25
3.175 (0.125") +/-0.1270	Phosphor Bronze	Grade 1000	75-98 Rockwell B	BL-00318-PB-G1000
3.175 (0.125") +/-0.01270	304 Stainless	Grade 100	25-39 Rockwell C	BL-00318-S4-G100
3.175 (0.125") +/-0.01270	316 Stainless	Grade 100	25-39 Rockwell C	BL-00318-S6-G100



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# Metallic Balls



Diameter (D) mm	Material	Precision Grade	Hardness	Part Number
3.175 (0.125") +/-0.00254	420 Stainless	Grade 20	55-60 Rockwell C	BL-00318-S420-G28
3.175 (0.125") +/-0.00254	440C Stainless	Grade 20	55-60 Rockwell C	BL-00318-S440-G20
3.400 (0.134") +/-0.00254	SAE52100 Chrome	Grade 25	60-70 Rockwell C	BL-00340-CH-G25
3.500 (0.138") +/-0.00254	SAE52100 Chrome	Grade 28	60-70 Rockwell C	BL-00350-CH-G28
3.500 (0.138") +/-0.00254	440C Stainless	Grade 28	55-60 Rockwell C	BL-00350-S440-G28
3.969 (0.156") +/-0.01270	Tungsten Carbide	Grade 24	91.5 Rockwell A	BL-00397-TC-G24
3.969 (0.156") +/-0.00254	SAE52100 Chrome	Grade 25	60-70 Rockwell C	BL-00397-CH-G25
3.969 (0.156") +/-0.01270	304 Stainless	Grade 100	25-39 Rockwell C	BL-00397-S4-G100
3.969 (0.156") +/-0.01270	316 Stainless	Grade 100	25-39 Rockwell C	BL-00397-S6-G100
3.969 (0.156") +/-0.007620	440C Stainless	Grade 28	55-60 Rockwell C	BL-00397-S440-G28
4.000 (0.157") +/-0.01270	SAE52100 Chrome	Grade 100	60-70 Rockwell C	BL-00400-CH-G100
4.000 (0.157") +/-0.00254	SAE52100 Chrome	Grade 28	60-70 Rockwell C	BL-00400-CH-G28
4.000 (0.157") +/-0.00254	Tungsten Carbide	Grade 25	91.5 Rockwell A	BL-00400-TC-G25
4.000 (0.157") +/-0.01270	Ti-Gr23/Ti-6AL4V-ELI	Grade 100	35 Rockwell C	BL-00400-T23-G100
4.000 (0.157") +/-0.01270	304 Stainless	Grade 100	25-39 Rockwell C	BL-00400-S4-G100
4.000 (0.157") +/-0.01270	316 Stainless	Grade 200	25-39 Rockwell C	BL-00400-S6-G200
4.000 (0.157") +/-0.01270	316 Stainless	Grade 100	25-39 Rockwell C	BL-00400-S6-G100
4.000 (0.157") +/-0.01270	316L Stainless	Grade 100	25-39 Rockwell C	BL-00400-S6L-G100
4.000 (0.157") +/-0.00254	440C Stainless	Grade 16	55-60 Rockwell C	BL-00400-S440-G16
4.500 (0.177") +/-0.005080	SAE52100 Chrome	Grade 100	60-70 Rockwell C	BL-00450-CH-G100-1KG
4.500 (0.177") +/-0.00254	SAE52100 Chrome	Grade 28	60-70 Rockwell C	BL-00450-CH-G28
4.500 (0.177") +/-0.01270	316 Stainless	Grade 100	25-39 Rockwell C	BL-00450-S6-G100
4.762 (0.187") +/-0.1270	Phosphor Bronze	Grade 1000	75-98 Rockwell B	BL-00476-PB-G1000
4.763 (0.188") +/-0.00254	SAE52100 Chrome	Grade 25	60-70 Rockwell C	BL-00476-CH-G25
4.763 (0.188") +/-0.00254	SAE52100 Chrome	Grade 20	60-70 Rockwell C	BL-00476-CH-G20
4.763 (0.188") +/-0.00254	Tungsten Carbide	Grade 25	91.5 Rockwell A	BL-00476-TC-G25
4.763 (0.188") +/-0.01270	304 Stainless	Grade 100	25-39 Rockwell C	BL-00476-S4-G100
4.763 (0.188") +/-0.01270	316 Stainless	Grade 200	25-39 Rockwell C	BL-00476-S6-G200
4.763 (0.188") +/-0.00254	440C Stainless	Grade 28	55-60 Rockwell C	BL-00476-S440-G28
4.763 (0.188") +/-0.007620	440C Stainless	Grade 50	55-60 Rockwell C	BL-00476-S440-G50
5.000 (0.197") +/-0.00254	SAE52100 Chrome	Grade 28	60-70 Rockwell C	BL-00500-CH-G28
5.000 (0.197") +/-0.000762	SAE52100 Chrome	Grade 3	60-70 Rockwell C	BL-00500-CH-G3
5.000 (0.197") +/-0.01270	Ti-Gr23/Ti-6AL4V-ELI	Grade 100	35 Rockwell C	BL-00500-T23-G100
5.000 (0.197") +/-0.01270	304 Stainless	Grade 100	25-39 Rockwell C	BL-00500-S4-G100



 Usually stocked or Short Delivery  
 \*\* Available while stocks last \*\*

 Long Delivery or Large Minimum Quantities  
 Not in current production

# Metallic Balls

Diameter (D) mm	Material	Precision Grade	Hardness	Part Number
5.000 (0.197") +/-0.01270	316 Stainless	Grade 200	25-39 Rockwell C	BL-00500-S6-G200
5.000 (0.197") +/-0.00254	440C Stainless	Grade 16	55-60 Rockwell C	BL-00500-S440-G16
5.500 (0.217") +/-0.00254	SAE52100 Chrome	Grade 28	60-70 Rockwell C	BL-00550-CH-G28
5.556 (0.219") +/-0.00254	SAE52100 Chrome	Grade 25	60-70 Rockwell C	BL-00556-CH-G25
5.556 (0.219") +/-0.01270	304 Stainless	Grade 100	25-39 Rockwell C	BL-00556-S4-G100
5.556 (0.219") +/-0.01270	316 Stainless	Grade 100	25-39 Rockwell C	BL-00556-S6-G100
5.556 (0.219") +/-0.00254	440C Stainless	Grade 10	55-60 Rockwell C	BL-00556-S440-G40
6.000 (0.236") +/-0.01270	SAE52100 Chrome	Grade 200	60-70 Rockwell C	BL-00600-CH-G200
6.000 (0.236") +/-0.00254	Tungsten Carbide	Grade 25	91.5 Rockwell A	BL-00600-TC-G25
6.000 (0.236") +/-0.01270	Ti-Gr23/Ti-6AL4V-ELI	Grade 100	35 Rockwell C	BL-00600-T23-G100
6.000 (0.236") +/-0.01270	304 Stainless	Grade 100	25-39 Rockwell C	BL-00600-S4-G100
6.000 (0.236") +/-0.005080	440C Stainless	Grade 40	55-60 Rockwell C	BL-00600-S440-G40
6.000 (0.236") +/-0.00254	440C Stainless	Grade 16	55-60 Rockwell C	BL-00600-S440-G16
6.000 (0.236") +/-0.01270	440C Stainless	Grade 200	55-60 Rockwell C	BL-00600-S440-G200
6.350 (0.250") +/-0.01270	420 Stainless	Grade 100	55-60 Rockwell C	BL-00635-S420-G100
6.350 (0.250") +/-0.00254	SAE52100 Chrome	Grade 20	60-70 Rockwell C	BL-00635-CH-G20
6.350 (0.250") +/-0.00254	Tungsten Carbide	Grade 25	91.5 Rockwell A	BL-00635-TC-G25
6.350 (0.250") +/-0.1270	Phosphor Bronze	Grade 1000	75-98 Rockwell B	BL-00635-PB-G1000
6.350 (0.250") +/-0.01270	304 Stainless	Grade 100	25-39 Rockwell C	BL-00635-S4-G100
6.350 (0.250") +/-0.01270	316 Stainless	Grade 100	25-39 Rockwell C	BL-00635-S6-G100
6.350 (0.250") +/-0.00254	440C Stainless	Grade 28	55-60 Rockwell C	BL-00635-S440-G28
6.500 (0.256") +/-0.00254	SAE52100 Chrome	Grade 28	60-70 Rockwell C	BL-00650-CH-G28
7.000 (0.276") +/-0.005080	SAE52100 Chrome	Grade 40	60-70 Rockwell C	BL-00700-CH-G40
7.000 (0.276") +/-0.00254	440C Stainless	Grade 16	55-60 Rockwell C	BL-00700-S440-G16
7.144 (0.281") +/-0.00254	SAE52100 Chrome	Grade 28	60-70 Rockwell C	BL-00714-CH-G28
7.144 (0.281") +/-0.01270	304 Stainless	Grade 100	25-39 Rockwell C	BL-00714-S4-G100
7.144 (0.281") +/-0.00254	440C Stainless	Grade 28	55-60 Rockwell C	BL-00714-S440-G28
7.500 (0.295") +/-0.00254	SAE52100 Chrome	Grade 28	60-70 Rockwell C	BL-00750-CH-G28
7.938 (0.313") +/-0.00254	SAE52100 Chrome	Grade 28	60-70 Rockwell C	BL-00794-CH-G28
7.938 (0.313") +/-0.00254	SAE52100 Chrome	Grade 25	60-70 Rockwell C	BL-00794-CH-G25
7.938 (0.313") +/-0.1270	Phosphor Bronze	Grade 1000	75-98 Rockwell B	BL-00794-PB-G1000
7.938 (0.313") +/-0.01270	304 Stainless	Grade 200	25-39 Rockwell C	BL-00794-S4-G200
7.938 (0.313") +/-0.01270	316 Stainless	Grade 200	25-39 Rockwell C	BL-00794-S6-G200
7.938 (0.313") +/-0.00254	440C Stainless	Grade 28	55-60 Rockwell C	BL-00794-S440-G28

 Usually stocked or Short Delivery  
 \*\* Available while stocks last \*\*

 Long Delivery or Large Minimum Quantities  
 Not in current production

# Metallic Balls

Diameter (D) mm	Material	Precision Grade	Hardness	Part Number
8.000 (0.315") +/-0.00254	440C Stainless	Grade 28	55-60 Rockwell C	BL-00800-S440-G28
8.000 (0.315") +/-0.00254	SAE52100 Chrome	Grade 28	60-70 Rockwell C	BL-00800-CH-G28
8.000 (0.315") +/-0.01270	Ti-Gr23/Ti-6AL4V-ELI	Grade 100	35 Rockwell C	BL-00800-T23-G100
8.000 (0.315") +/-0.01270	316 Stainless	Grade 200	25-39 Rockwell C	BL-00800-S6-G200
8.500 (0.335") +/-0.00254	SAE52100 Chrome	Grade 28	60-70 Rockwell C	BL-00850-CH-G28
8.731 (0.344") +/-0.00254	SAE52100 Chrome	Grade 28	60-70 Rockwell C	BL-00873-CH-G28
8.731 (0.344") +/-0.01270	304 Stainless	Grade 200	25-39 Rockwell C	BL-00873-S4-G200
9.000 (0.354") +/-0.00254	SAE52100 Chrome	Grade 28	60-70 Rockwell C	BL-00900-CH-G28
9.000 (0.354") +/-0.00254	440C Stainless	Grade 28	55-60 Rockwell C	BL-00900-S440-G28
9.525 (0.375") +/-0.00254	SAE52100 Chrome	Grade 25	60-70 Rockwell C	BL-00953-CH-G25
9.525 (0.375") +/-0.00254	Tungsten Carbide	Grade 25	91.5 Rockwell A	BL-00953-TC-G25
9.525 (0.375") +/-0.01270	304 Stainless	Grade 100	25-39 Rockwell C	BL-00953-S4-G100
9.525 (0.375") +/-0.01270	316 Stainless	Grade 100	25-39 Rockwell C	BL-00953-S6-G100
9.525 (0.375") +/-0.005080	440C Stainless	Grade 40	55-60 Rockwell C	BL-00953-S440-G40
9.525 (0.375") +/-0.00254	440C Stainless	Grade 20	55-60 Rockwell C	BL-00953-S440-G20
9.525 (0.375") +/-0.005080	420 Stainless	Grade 40	55-60 Rockwell C	BL-00953-S420-G40
10.000 (0.394") +/-0.005080	SAE52100 Chrome	Grade 40	60-70 Rockwell C	BL-01000-CH-G40
10.000 (0.394") +/-0.00254	Tungsten Carbide	Grade 25	91.5 Rockwell A	BL-01000-TC-G25
10.000 (0.394") +/-0.01270	Ti-Gr23/Ti-6AL4V-ELI	Grade 100	35 Rockwell C	BL-01000-T23-G100
10.000 (0.394") +/-0.01270	316 Stainless	Grade 200	25-39 Rockwell C	BL-01000-S6-G200
10.000 (0.394") +/-0.005080	420 Stainless	Grade 40	55-60 Rockwell C	BL-01000-S420-G40
10.000 (0.394") +/-0.005080	440C Stainless	Grade 40	55-60 Rockwell C	BL-01000-S440-G40
10.319 (0.406") +/-0.00254	SAE52100 Chrome	Grade 28	60-70 Rockwell C	BL-01032-CH-G28
11.000 (0.433") +/-0.00254	SAE52100 Chrome	Grade 28	60-70 Rockwell C	BL-01100-CH-G28
11.000 (0.433") +/-0.00254	440C Stainless	Grade 16	55-60 Rockwell C	BL-01100-S440-G16
11.112 (0.437") +/-0.00254	SAE52100 Chrome	Grade 28	60-70 Rockwell C	BL-01111-CH-G28
11.113 (0.438") +/-0.00254	440C Stainless	Grade 16	55-60 Rockwell C	BL-01111-S440-G16
11.113 (0.438") +/-0.01270	316 Stainless	Grade 200	25-39 Rockwell C	BL-01111-S6-G200
11.500 (0.453") +/-0.00254	SAE52100 Chrome	Grade 28	60-70 Rockwell C	BL-01150-CH-G28
11.906 (0.469") +/-0.007620	SAE52100 Chrome	Grade 60	60-70 Rockwell C	BL-01191-CH-G60
12.000 (0.472") +/-0.00254	SAE52100 Chrome	Grade 28	60-70 Rockwell C	BL-01200-CH-G28
12.000 (0.472") +/-0.01270	316 Stainless	Grade 100	25-39 Rockwell C	BL-01200-S6-G100
12.000 (0.472") +/-0.00254	440C Stainless	Grade 16	55-60 Rockwell C	BL-01200-S440-G16
12.500 (0.492") +/-0.00254	SAE52100 Chrome	Grade 28	60-70 Rockwell C	BL-01250-CH-G28

Usually stocked or Short Delivery  
 \*\* Available while stocks last \*\*

Long Delivery or Large Minimum Quantities  
 Not in current production

# Metallic Balls

Diameter (D) mm	Material	Precision Grade	Hardness	Part Number
12.700 (0.500") +/-0.00254	SAE52100 Chrome	Grade 25	60-70 Rockwell C	BL-01270-CH-G25
12.700 (0.500") +/-0.1270	Phosphor Bronze	Grade 1000	75-98 Rockwell B	BL-01270-PB-G1000
12.700 (0.500") +/-0.01270	304 Stainless	Grade 100	25-39 Rockwell C	BL-01270-S4-G100
12.700 (0.500") +/-0.01270	316L Grade Stainless	Grade 100	25-39 Rockwell C	BL-01270-S6L-G100
12.700 (0.500") +/-0.01270	316 Stainless	Grade 100	25-39 Rockwell C	BL-01270-S6-G100
12.700 (0.500") +/-0.007620	440C Stainless	Grade 60	55-60 Rockwell C	BL-01270-S440-G60
12.700 (0.500") +/-0.00254	440C Stainless	Grade 16	55-60 Rockwell C	BL-01270-S440-G16
14.288 (0.563") +/-0.01270	304 Stainless	Grade 200	25-39 Rockwell C	BL-01429-S4-G200
14.288 (0.563") +/-0.00254	440C Stainless	Grade 16	55-60 Rockwell C	BL-01429-S440-G16
15.000 (0.591") +/-0.00254	SAE52100 Chrome	Grade 28	60-70 Rockwell C	BL-01500-CH-G28
15.000 (0.591") +/-0.01270	304 Stainless	Grade 100	25-39 Rockwell C	BL-01500-S4-G100
15.000 (0.591") +/-0.01270	316 Stainless	Grade 100	25-39 Rockwell C	BL-01500-S6-G100
15.000 (0.591") +/-0.005080	420 Stainless	Grade 40	55-60 Rockwell C	BL-01500-S420-G40
15.875 (0.625") +/-0.005080	SAE52100 Chrome	Grade 40	60-70 Rockwell C	BL-01588-CH-G40
15.875 (0.625") +/-0.01270	304 Stainless	Grade 100	25-39 Rockwell C	BL-01588-S4-G100
15.875 (0.625") +/-0.01270	316 Stainless	Grade 100	25-39 Rockwell C	BL-01588-S6-G100
15.875 (0.625") +/-0.007620	420 Stainless	Grade 60	55-60 Rockwell C	BL-01588-S420-G60
15.875 (0.625") +/-0.007620	440C Stainless	Grade 60	55-60 Rockwell C	BL-01588-S440-G60
16.000 (0.630") +/-0.01270	316 Stainless	Grade 100	25-39 Rockwell C	BL-01600-S6-G100
17.463 (0.688") +/-0.01270	304 Stainless	Grade 100	25-39 Rockwell C	BL-01746-S4-G100
18.000 (0.709") +/-0.01270	304 Stainless	Grade 100	25-39 Rockwell C	BL-01800-S4-G100
18.000 (0.709") +/-0.01270	316 Stainless	Grade 100	25-39 Rockwell C	BL-01800-S6-G100
18.000 (0.709") +/-0.01270	316L Stainless	Grade 100	25-39 Rockwell C	BL-01800-S6L-G100
18.000 (0.709") +/-0.007620	440C Stainless	Grade 60	55-60 Rockwell C	BL-01800-S440-G60
19.050 (0.750") +/-0.007620	SAE52100 Chrome	Grade 60	60-70 Rockwell C	BL-01905-CH-G60
19.050 (0.750") +/-0.00254	Tungsten Carbide	Grade 25	91.5 Rockwell A	BL-01905-TC-G25
19.050 (0.750") +/-0.01270	304 Stainless	Grade 100	25-39 Rockwell C	BL-01905-S4-G100
19.050 (0.750") +/-0.01270	316 Stainless	Grade 200	25-39 Rockwell C	BL-01905-S6-G200
19.050 (0.750") +/-0.007620	440C Stainless	Grade 60	55-60 Rockwell C	BL-01905-S440-G60
20.000 (0.787") +/-0.005080	SAE52100 Chrome	Grade 40	60-70 Rockwell C	BL-02000-CH-G40
20.000 (0.787") +/-0.01270	304 Stainless	Grade 200	25-39 Rockwell C	BL-02000-S4-G200
20.000 (0.787") +/-0.01270	316 Stainless	Grade 200	25-39 Rockwell C	BL-02000-S6-G200
20.000 (0.787") +/-0.007620	420 Stainless	Grade 60	55-60 Rockwell C	BL-02000-S420-G60
20.638 (0.813") +/-0.00254	440C Stainless	Grade AFBMA 50	55-60 Rockwell C	BL-02064-S440-G28-MS-PK6

Usually stocked or Short Delivery  
 \*\* Available while stocks last \*\*

Long Delivery or Large Minimum Quantities  
 Not in current production



# Metallic Balls

Diameter (D) mm	Material	Precision Grade	Hardness	Part Number
20.638 (0.813") +/-0.00254	440C Stainless	Grade 28	55-60 Rockwell C	BL-02064-S440-G28
20.638 (0.813") +/-0.00254	440C Stainless	Grade AFBMA 50	55-60 Rockwell C	BL-02064-S440-G28-MS
22.000 (0.866") +/-0.005080	SAE52100 Chrome	Grade 40	60-70 Rockwell C	BL-02200-CH-G40
22.225 (0.875") +/-0.005080	SAE52100 Chrome	Grade 40	60-70 Rockwell C	BL-02223-CH-G40
22.225 (0.875") +/-0.01270	304 Stainless	Grade 100	25-39 Rockwell C	BL-02223-S4-G100
22.225 (0.875") +/-0.01270	316 Stainless	Grade 100	25-39 Rockwell C	BL-02223-S6-G100
22.225 (0.875") +/-0.00254	Tungsten Carbide	Grade 25	91.5 Rockwell A	BL-02223-TC-G25
23.813 (0.938") +/-0.005080	SAE52100 Chrome	Grade 40	60-70 Rockwell C	BL-02381-CH-G40
24.000 (0.945") +/-0.005080	SAE52100 Chrome	Grade 40	60-70 Rockwell C	BL-02400-CH-G40
25.000 (0.984") +/-0.005080	SAE52100 Chrome	Grade 40	60-70 Rockwell C	BL-02500-CH-G40
25.000 (0.984") +/-0.01270	304 Stainless	Grade 100	25-39 Rockwell C	BL-02500-S4-G100
25.000 (0.984") +/-0.005080	420 Stainless	Grade 40	55-60 Rockwell C	BL-02500-S420-G40
25.400 (1.000") +/-0.0127	SAE52100 Chrome	Grade 1000	60-70 Rockwell C	BL-02540-CH-G1000
25.400 (1.000") +/-0.01270	304 Stainless	Grade 100	25-39 Rockwell C	BL-02540-S4-G100
25.400 (1.000") +/-0.01270	316 Stainless	Grade 100	25-39 Rockwell C	BL-02540-S6-G100
25.400 (1.000") +/-0.01270	440C Stainless	Grade 200	55-60 Rockwell C	BL-02540-S440-G200
25.400 (1.000") +/-0.01270	420 Stainless	Grade 200	55-60 Rockwell C	BL-02540-S420-G200
26.988 (1.063") +/-0.005080	SAE52100 Chrome	Grade 40	60-70 Rockwell C	BL-02699-CH-G40
28.000 (1.102") +/-0.005080	SAE52100 Chrome	Grade 40	60-70 Rockwell C	BL-02800-CH-G40
30.000 (1.181") +/-0.005080	SAE52100 Chrome	Grade 40	60-70 Rockwell C	BL-03000-CH-G40
30.000 (1.181") +/-0.01270	316 Stainless	Grade 200	25-39 Rockwell C	BL-03000-S6-G200
30.163 (1.188") +/-0.005080	SAE52100 Chrome	Grade 40	60-70 Rockwell C	BL-03016-CH-G40
31.750 (1.250") +/-0.005080	SAE52100 Chrome	Grade 40	60-70 Rockwell C	BL-03175-CH-G40
31.750 (1.250") +/-0.01270	304 Stainless	Grade 200	25-39 Rockwell C	BL-03175-S4-G200
31.750 (1.250") +/-0.01270	316 Stainless	Grade 100	25-39 Rockwell C	BL-03175-S6-G100
35.000 (1.378") +/-0.005080	SAE52100 Chrome	Grade 40	60-70 Rockwell C	BL-03500-CH-G40
36.513 (1.438") +/-0.005080	SAE52100 Chrome	Grade 40	60-70 Rockwell C	BL-03651-CH-G40
38.100 (1.500") +/-0.007620	SAE52100 Chrome	Grade 60	60-70 Rockwell C	BL-03810-CH-G60
38.100 (1.500") +/-0.00254	Tungsten Carbide	Grade 25	91.5 Rockwell A	BL-03810-TC-G25
38.100 (1.500") +/-0.01270	304 Stainless	Grade 200	25-39 Rockwell C	BL-03810-S4-G200
38.100 (1.500") +/-0.01270	316 Stainless	Grade 100	25-39 Rockwell C	BL-03810-S6-G100
38.100 (1.500") +/-0.01270	440C Stainless	Grade 200	55-60 Rockwell C	BL-03810-S440-G200
40.000 (1.575") +/-0.01270	316 Stainless	Grade 200	25-39 Rockwell C	BL-04000-S6-G200
44.000 (1.732") +/-0.007620	SAE52100 Chrome	Grade 60	60-70 Rockwell C	BL-04400-CH-G60



Usually stocked or Short Delivery  
 \*\* Available while stocks last \*\*



Long Delivery or Large Minimum Quantities  
 Not in current production



## Metallic Balls



Diameter (D) mm	Material	Precision Grade	Hardness	Part Number
44.450 (1.750") +/-0.007620	SAE52100 Chrome	Grade 60	60-70 Rockwell C	BL-04445-CH-G60
44.450 (1.750") +/-0.01270	316 Stainless	Grade 200	25-39 Rockwell C	BL-04445-S6-G200
44.450 (1.750") +/-0.01270	440C Stainless	Grade 200	55-60 Rockwell C	BL-04445-S440-G200
50.000 (1.969") +/-0.005080	SAE52100 Chrome	Grade 40	60-70 Rockwell C	BL-05000-CH-G40
50.800 (2.000") +/-0.01270	SAE52100 Chrome	Grade 200	60-70 Rockwell C	BL-05080-CH-G200
50.800 (2.000") +/-0.01270	420 Stainless	Grade 200	55-60 Rockwell C	BL-05080-S420-G200
50.800 (2.000") +/-0.01270	440C Stainless	Grade 200	55-60 Rockwell C	BL-05080-S440-G200
65.000 (2.559") +/-0.01270	SAE52100 Chrome	Grade 200	60-70 Rockwell C	BL-06500-CH-G200
65.000 (2.559") +/-0.01270	304 Stainless	Grade 200	25-39 Rockwell C	BL-06500-S4-G200
69.85 (2.750") +/-0.01270	440C Stainless	Grade 200	55-60 Rockwell C	BL-06985-S440-G200
70.000 (2.756") +/-0.005080	SAE52100 Chrome	Grade 40	55-60 Rockwell C	BL-07000-CH-G40
76.200 (3.000") +/-0.01270	304 Stainless	Grade 200	25-39 Rockwell C	BL-07620-S4-G200
76.200 (3.000") +/-0.01270	440C Stainless	Grade 200	55-60 Rockwell C	BL-07620-S440-G200
100.00 (3.937") +/-0.01270	SAE52100 Chrome	Grade 200	60-70 Rockwell C	BL-10000-CH-G200



 Usually stocked or Short Delivery  
 \*\* Available while stocks last \*\*

 Long Delivery or Large Minimum Quantities  
 Not in current production

## Metallic Balls - Bored



Diameter (D) mm	Bore (B) mm	Width (W) mm	Flat Diameter (d1) mm		Part Number
7.938 (0.313")	3.000 +0.012/-0.0	6.000	5.100	Chrome Steel	BLB-00794-00300-SUJ
9.525 (0.375")	4.000 +0.012/-0.0	7.000	7.400	Chrome Steel	BLB-00953-00400-SUJ
11.112 (0.437")	5.000 +0.012/-0.0	8.000	7.710	Chrome Steel	BLB-01111-00500-SUJ
12.700 (0.500")	6.000 +0.012/-0.0	9.000	8.960	Chrome Steel	BLB-01270-00600-SUJ
15.875 (0.625")	8.000 +0.015/-0.0	12.000	10.390	Chrome Steel	BLB-01588-00800-SUJ
19.050 (0.750")	10.000 +0.015/-0.0	14.000	12.920	Chrome Steel	BLB-01905-01000-SUJ
22.225 (0.875")	12.000 +0.018/-0.0	16.000	15.430	Chrome Steel	BLB-02223-01200-SUJ
25.400 (1.000")	14.000 +0.018/-0.0	19.000	16.860	Chrome Steel	BLB-02540-01400-SUJ
28.575 (1.125")	16.000 +0.018/-0.0	21.000	19.390	Chrome Steel	BLB-02858-01600-SUJ
31.750 (1.250")	18.000 +0.018/-0.0	23.000	21.890	Chrome Steel	BLB-03175-01800-SUJ
34.925 (1.375")	20.000 +0.021/-0.0	25.000	24.380	Chrome Steel	BLB-03493-02000-SUJ
38.100 (1.500")	22.000 +0.021/-0.0	28.000	25.840	Chrome Steel	BLB-03810-02200-SUJ
42.863 (1.688")	25.000 +0.021/-0.0	31.000	29.600	Chrome Steel	BLB-04286-02500-SUJ
50.800 (2.000")	30.000 +0.021/-0.0	37.000	34.810	Chrome Steel	BLB-05080-03000-SUJ



 Usually stocked or Short Delivery  
 \*\* Available while stocks last \*\*

 Long Delivery or Large Minimum Quantities  
 Not in current production

# Plastic Balls



Diameter (D) mm	Material	Precision Grade	Hardness	Part Number
0.79 (0.031") +/-0.051	Acrylic	Grade 3	132 Rockwell R	BL-00079-ACR
0.79 (0.031") +/-0.051	PTFE	Grade 1	68 Rockwell R	BL-00079-PTF
1.59 (0.063") +/-0.051	Nylon (Polyamide 6/6)	Grade 2	108 Rockwell R	BL-00159-NY
1.59 (0.063") +/-0.051	Acrylic	Grade 3	132 Rockwell R	BL-00159-ACR
1.59 (0.063") +/-0.051	PTFE	Grade 1	68 Rockwell R	BL-00159-PTF
2.38 (0.094") +/-0.051	PTFE	Grade 1	68 Rockwell R	BL-00238-PTF
2.38 (0.094") +/-0.051	Nylon (Polyamide 6/6)	Grade 2	108 Rockwell R	BL-00238-NY
2.38 (0.094") +/-0.051	Acetal	Grade 1	118 Rockwell R	BL-00238-AC
3.00 (0.118") +/-0.051	Acrylic	Grade 3	132 Rockwell R	BL-00300-ACR
3.18 (0.125") +/-0.051	Nylon (Polyamide 6/6)	Grade 2	108 Rockwell R	BL-00318-NY
3.18 (0.125") +/-0.051	Acetal	Grade 1	118 Rockwell R	BL-00318-AC
3.18 (0.125") +/-0.051	Acrylic	Grade 3	132 Rockwell R	BL-00318-ACR
3.18 (0.125") +/-0.051	PTFE	Grade 1	68 Rockwell R	BL-00318-PTF
3.18 (0.125") +/-0.051	Torlon (Polyamide-imide)	Grade II	Rockwell E86 or M109-119	BL-00318-TO
3.18 (0.125") +/-0.051	Polypropylene	Grade 2	86 Rockwell R	BL-00318-PP
3.97 (0.156") +/-0.051	Nylon (Polyamide 6/6)	Grade 2	108 Rockwell R	BL-00397-NY
3.97 (0.156") +/-0.051	Acetal	Grade 1	118 Rockwell R	BL-00397-AC
3.97 (0.156") +/-0.051	Acrylic	Grade 3	132 Rockwell R	BL-00397-ACR
3.97 (0.156") +/-0.051	PTFE	Grade 1	68 Rockwell R	BL-00397-PTF
3.97 (0.156") +/-0.051	Torlon (Polyamide-imide)	Grade II	Rockwell E86 or M109-119	BL-00397-TO
3.97 (0.156") +/-0.051	Polypropylene	Grade 2	86 Rockwell R	BL-00397-PP
4.76 (0.187") +/-0.051	PVC	Grade 2	114 Rockwell R	BL-00476-PVC
4.76 (0.187") +/-0.051	Polypropylene	Grade 2	86 Rockwell R	BL-00476-PP
4.76 (0.187") +/-0.051	Torlon (Polyamide-imide)	Grade II	Rockwell E86 or M109-119	BL-00476-TO
4.76 (0.188") +/-0.051	Nylon (Polyamide 6/6)	Grade 2	108 Rockwell R	BL-00476-NY
4.76 (0.188") +/-0.051	Acetal	Grade 1	118 Rockwell R	BL-00476-AC
4.76 (0.188") +/-0.051	Acrylic	Grade 3	132 Rockwell R	BL-00476-ACR
4.76 (0.188") +/-0.051	PTFE	Grade 1	68 Rockwell R	BL-00476-PTF
5.00 (0.197") +/-0.051	Torlon (Polyamide-imide)	Grade II	Rockwell E86 or M109-119	BL-00500-TO
5.56 (0.219") +/-0.051	Nylon (Polyamide 6/6)	Grade 2	108 Rockwell R	BL-00556-NY
5.56 (0.219") +/-0.051	Acetal	Grade 1	118 Rockwell R	BL-00556-AC
5.56 (0.219") +/-0.051	PTFE	Grade 1	68 Rockwell R	BL-00556-PTF
5.56 (0.219") +/-0.051	Torlon (Polyamide-imide)	Grade II	Rockwell E86 or M109-119	BL-00556-TO
5.56 (0.219") +/-0.051	Polypropylene	Grade 2	86 Rockwell R	BL-00556-PP



 Usually stocked or Short Delivery  
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# Plastic Balls



Diameter (D) mm	Material	Precision Grade	Hardness	Part Number
6.00 (0.236") +/-0.051	Torlon (Polyamide-imide)	Grade II	Rockwell E86 or M109-119	BL-00600-TO
6.35 (0.250") +/-0.051	Nylon (Polyamide 6/6)	Grade 2	108 Rockwell R	BL-00635-NY
6.35 (0.250") +/-0.051	PVC	Grade 2	114 Rockwell R	BL-00635-PVC
6.35 (0.250") +/-0.051	Acetal	Grade 1	118 Rockwell R	BL-00635-AC
6.35 (0.250") +/-0.051	Acrylic	Grade 3	132 Rockwell R	BL-00635-ACR
6.35 (0.250") +/-0.051	PTFE	Grade 1	68 Rockwell R	BL-00635-PTF
6.35 (0.250") +/-0.051	Polypropylene	Grade 2	86 Rockwell R	BL-00635-PP
6.35 (0.250") +/-0.051	Torlon (Polyamide-imide)	Grade II	Rockwell E86 or M109-119	BL-00635-TO
7.14 (0.281") +/-0.051	Nylon (Polyamide 6/6)	Grade 2	108 Rockwell R	BL-00714-NY
7.14 (0.281") +/-0.051	Acetal	Grade 2	118 Rockwell R	BL-00714-AC
7.14 (0.281") +/-0.051	PTFE	Grade 1	68 Rockwell R	BL-00714-PTF
7.94 (0.313") +/-0.051	Nylon (Polyamide 6/6)	Grade 2	108 Rockwell R	BL-00794-NY
7.94 (0.313") +/-0.051	Acetal	Grade 2	118 Rockwell R	BL-00794-AC
7.94 (0.313") +/-0.051	Acrylic	Grade 3	132 Rockwell R	BL-00794-ACR
7.94 (0.313") +/-0.051	PTFE	Grade 1	68 Rockwell R	BL-00794-PTF
7.94 (0.313") +/-0.051	Polypropylene	Grade 2	86 Rockwell R	BL-00794-PP
7.94 (0.313") +/-0.051	Torlon (Polyamide-imide)	Grade II	Rockwell E86 or M109-119	BL-00794-TO
8.73 (0.344") +/-0.051	Nylon (Polyamide 6/6)	Grade 2	108 Rockwell R	** BL-00873-NY
9.53 (0.375") +/-0.051	Nylon (Polyamide 6/6)	Grade 2	108 Rockwell R	BL-00953-NY
9.53 (0.375") +/-0.051	Acetal	Grade 2	118 Rockwell R	BL-00953-AC
9.53 (0.375") +/-0.051	Acrylic	Grade 3	132 Rockwell R	BL-00953-ACR
9.53 (0.375") +/-0.051	PTFE	Grade 1	68 Rockwell R	BL-00953-PTF
9.53 (0.375") +/-0.051	Torlon (Polyamide-imide)	Grade II	Rockwell E86 or M109-119	BL-00953-TO
9.53 (0.375") +/-0.051	Polypropylene	Grade 2	86 Rockwell R	BL-00953-PP
10.32 (0.406") +/-0.051	Torlon (Polyamide-imide)	Grade II	Rockwell E86 or M109-119	BL-01032-TO
11.11 (0.437") +/-0.051	Acetal	Grade 2	118 Rockwell R	BL-01111-AC
11.11 (0.437") +/-0.051	Nylon (Polyamide 6/6)	Grade 2	108 Rockwell R	BL-01111-NY
11.11 (0.438") +/-0.051	Acrylic	Grade 3	132 Rockwell R	BL-01111-ACR
11.11 (0.438") +/-0.051	PTFE	Grade 1	68 Rockwell R	BL-01111-PTF
12.00 (0.472") +/-0.051	Acetal	Grade 2	118 Rockwell R	BL-01200-AC
12.00 (0.472") +/-0.051	Acrylic	Grade 3	132 Rockwell R	BL-01200-ACR
12.70 (0.500") +/-0.051	Nylon (Polyamide 6/6)	Grade 2	108 Rockwell R	BL-01270-NY
12.70 (0.500") +/-0.051	PVC	Grade 2	114 Rockwell R	BL-01270-PVC
12.70 (0.500") +/-0.051	Acetal	Grade 2	118 Rockwell R	BL-01270-AC



 Usually stocked or Short Delivery  
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 Long Delivery or Large Minimum Quantities  
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# Plastic Balls



Diameter (D) mm	Material	Precision Grade	Hardness	Part Number
12.70 (0.500") +/-0.051	Acrylic	Grade 3	132 Rockwell R	BL-01270-ACR
12.70 (0.500") +/-0.051	PTFE	Grade 1	68 Rockwell R	BL-01270-PTF
12.70 (0.500") +/-0.051	Polypropylene	Grade 2	86 Rockwell R	BL-01270-PP
12.70 (0.500") +/-0.051	Torlon (Polyamide-imide)	Grade II	Rockwell E86 or M109-119	BL-01270-TO
14.29 (0.563") +/-0.051	Nylon (Polyamide 6/6)	Grade 2	108 Rockwell R	BL-01429-NY
14.29 (0.563") +/-0.051	Acetal	Grade 2	118 Rockwell R	BL-01429-AC
14.29 (0.563") +/-0.051	Acrylic	Grade 3	132 Rockwell R	BL-01429-ACR
14.29 (0.563") +/-0.051	PTFE	Grade 1	68 Rockwell R	BL-01429-PTF
15.88 (0.625") +/-0.051	Nylon (Polyamide 6/6)	Grade 2	108 Rockwell R	BL-01588-NY
15.88 (0.625") +/-0.051	Acetal	Grade 2	118 Rockwell R	BL-01588-AC
15.88 (0.625") +/-0.051	Acrylic	Grade 3	132 Rockwell R	BL-01588-ACR
15.88 (0.625") +/-0.051	PTFE	Grade 1	68 Rockwell R	BL-01588-PTF
15.88 (0.625") +/-0.051	Polypropylene	Grade 2	86 Rockwell R	BL-01588-PP
17.46 (0.687") +/-0.051	PVC	Grade 2	114 Rockwell R	BL-01746-PVC
17.46 (0.687") +/-0.051	Polypropylene	Grade 2	86 Rockwell R	BL-01746-PP
17.46 (0.687") +/-0.051	Nylon (Polyamide 6/6)	Grade 2	108 Rockwell R	BL-01746-NY
17.46 (0.687") +/-0.051	Acrylic	Grade 3	132 Rockwell R	BL-01746-ACR
19.05 (0.750") +/-0.051	Nylon (Polyamide 6/6)	Grade 2	108 Rockwell R	BL-01905-NY
19.05 (0.750") +/-0.051	PVC	Grade 2	114 Rockwell R	BL-01905-PVC
19.05 (0.750") +/-0.051	Acetal	Grade 2	118 Rockwell R	BL-01905-AC
19.05 (0.750") +/-0.051	Acrylic	Grade 3	132 Rockwell R	BL-01905-ACR
19.05 (0.750") +/-0.051	PTFE	Grade 1	68 Rockwell R	BL-01905-PTF
19.05 (0.750") +/-0.051	Polypropylene	Grade 2	86 Rockwell R	BL-01905-PP
20.64 (0.813") +/-0.051	Nylon (Polyamide 6/6)	Grade 2	108 Rockwell R	BL-02064-NY
22.23 (0.875") +/-0.051	Nylon (Polyamide 6/6)	Grade 2	108 Rockwell R	BL-02223-NY
22.23 (0.875") +/-0.051	Acetal	Grade 2	118 Rockwell R	BL-02223-AC
22.23 (0.875") +/-0.051	Acrylic	Grade 3	132 Rockwell R	BL-02223-ACR
22.23 (0.875") +/-0.051	PTFE	Grade 1	68 Rockwell R	BL-02223-PTF
22.23 (0.875") +/-0.051	Polypropylene	Grade 2	86 Rockwell R	BL-02223-PP
25.40 (1.000") +/-0.051	Nylon (Polyamide 6/6)	Grade 2	108 Rockwell R	BL-02540-NY
25.40 (1.000") +/-0.051	PVC	Grade 2	114 Rockwell R	BL-02540-PVC
25.40 (1.000") +/-0.051	Acetal	Grade 2	118 Rockwell R	BL-02540-AC
25.40 (1.000") +/-0.051	Acrylic	Grade 3	132 Rockwell R	BL-02540-ACR
25.40 (1.000") +/-0.051	PTFE	Grade 1	68 Rockwell R	BL-02540-PTF



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# Plastic Balls



Diameter (D) mm	Material	Precision Grade	Hardness	Part Number
25.40 (1.000") +/-0.051	Polypropylene	Grade 2	86 Rockwell R	BL-02540-PP
28.58 (1.125") +/-0.051	Nylon (Polyamide 6/6)	Grade 3	108 Rockwell R	BL-02858-NY
28.58 (1.125") +/-0.000762	PVC	Grade 3	114 Rockwell R	BL-02858-PVC
28.58 (1.125") +/-0.051	Acetal	Grade 3	118 Rockwell R	BL-02858-AC
28.58 (1.125") +/-0.051	Acrylic	Grade 3	132 Rockwell R	BL-02858-ACR
28.58 (1.125") +/-0.051	Polypropylene	Grade 3	86 Rockwell R	BL-02858-PP
30.00 (1.181") +/-0.000762	PVC	Grade 3	114 Rockwell R	BL-03000-PVC
30.16 (1.188") +/-0.051	Acetal	Grade 3	118 Rockwell R	BL-03016-AC
30.16 (1.188") +/-0.051	PTFE	Grade 2	68 Rockwell R	BL-03016-PTF
31.75 (1.250") +/-0.051	Nylon (Polyamide 6/6)	Grade 3	108 Rockwell R	BL-03175-NY
31.75 (1.250") +/-0.000762	PVC	Grade 3	114 Rockwell R	BL-03175-PVC
31.75 (1.250") +/-0.051	Acetal	Grade II	118 Rockwell R	BL-03175-ACB
31.75 (1.250") +/-0.051	Acetal	Grade 3	118 Rockwell R	BL-03175-ACN
31.75 (1.250") +/-0.051	Acrylic	Grade 3	132 Rockwell R	BL-03175-ACR
31.75 (1.250") +/-0.127	PTFE	Grade 2	68 Rockwell R	BL-03175-PTF
31.75 (1.250") +/-0.127	Polypropylene	Grade 3	86 Rockwell R	BL-03175-PP
34.93 (1.375") +/-0.051	Acetal	Grade 3	118 Rockwell R	BL-03493-AC
34.93 (1.375") +/-0.051	Acrylic	Grade 3	132 Rockwell R	BL-03493-ACR
34.93 (1.375") +/-0.051	Nylon (Polyamide 6/6)	Grade 3	108 Rockwell R	BL-03494-NY
34.93 (1.375") +/-0.051	Polypropylene	Grade 3	86 Rockwell R	BL-03493-PP
38.10 (1.500") +/-0.051	Nylon (Polyamide 6/6)	Grade 3	108 Rockwell R	BL-03810-NY
38.10 (1.500") +/-0.000762	PVC	Grade 3	114 Rockwell R	BL-03810-PVC
38.10 (1.500") +/-0.051	Acetal	Grade 3	118 Rockwell R	BL-03810-AC
38.10 (1.500") +/-0.051	Acrylic	Grade 3	132 Rockwell R	BL-03810-ACR
38.10 (1.500") +/-0.051	PTFE	Grade 2	68 Rockwell R	BL-03810-PTF
38.10 (1.500") +/-0.051	Polypropylene	Grade 3	86 Rockwell R	BL-03810-PP
44.45 (1.750") +/-0.051	Nylon (Polyamide 6/6)	Grade 3	108 Rockwell R	BL-04445-NY
44.45 (1.750") +/-0.000762	PVC	Grade 3	114 Rockwell R	BL-04445-PVC
44.45 (1.750") +/-0.051	Acetal	Grade 3	118 Rockwell R	BL-04445-AC
44.45 (1.750") +/-0.051	Acrylic	Grade 3	132 Rockwell R	BL-04445-ACR
44.45 (1.750") +/-0.051	Polypropylene	Grade 3	86 Rockwell R	BL-04445-PP
50.80 (2.000") +/-0.051	Acetal	Grade 3	118 Rockwell R	BL-05080-AC
50.80 (2.000") +/-0.051	Acrylic	Grade 3	132 Rockwell R	BL-05080-ACR
50.80 (2.000") +/-0.051	PTFE	Grade 2	68 Rockwell R	BL-05080-PTF



 Usually stocked or Short Delivery  
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## Plastic Balls

Diameter (D) mm	Material	Precision Grade	Hardness	Part Number
50.80 (2.000") +/-0.051	Polypropylene	Grade 3	86 Rockwell R	<a href="#">BL-05080-PP</a>
57.15 (2.250") +/-0.000762	PVC	Grade 3	114 Rockwell R	<a href="#">BL-05715-PVC</a>
57.15 (2.250") +/-0.051	Acrylic	Grade 3	132 Rockwell R	<a href="#">BL-05715-ACR</a>
57.15 (2.250") +/-0.051	Polypropylene	Grade 3	86 Rockwell R	<a href="#">BL-05715-PP</a>
63.50 (2.500") +/-0.051	Acrylic	Grade 3	132 Rockwell R	<a href="#">BL-06350-ACR</a>
63.50 (2.500") +/-0.051	Polypropylene	Grade 3	86 Rockwell R	<a href="#">BL-06350-PP</a>
69.85 (2.750") +/-0.051	Acrylic	Grade 3	132 Rockwell R	<a href="#">BL-06985-ACR</a>
69.85 (2.750") +/-0.051	Polypropylene	Grade 3	86 Rockwell R	<a href="#">BL-06985-PP</a>
76.20 (3.000") +/-0.051	Acrylic	Grade 3	132 Rockwell R	<a href="#">BL-07620-ACR</a>
76.20 (3.000") +/-0.051	Polypropylene	Grade 3	86 Rockwell R	<a href="#">BL-07620-PP</a>
101.60 (4.000") +/-0.051	Acrylic	Grade 3	132 Rockwell R	<a href="#">BL-10160-ACR</a>
101.60 (4.000") +/-0.000762	Polypropylene	Grade 3	86 Rockwell R	<a href="#">BL-10160-PP</a>



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

 Long Delivery or Large Minimum Quantities  
 Not in current production



## Plastic Balls - Bored



Diameter (D) mm	Inside Diameter (d1) mm	Width (B) mm	Shoulder Diameter (dn) mm		Part Number
5.20 (0.205")	2.000	4.00	3.90	Plastic	** BLB-00520-00200-W3
7.90 (0.311")	3.000	6.00	5.40	Plastic	BLB-00790-00300-W3
8.25 (0.325")	4.000	5.00	6.25	Plastic	BLB-00825-00400-W3
10.20 (0.402")	5.000	6.00	8.00	Plastic	** BLB-01020-00500-W3
10.20 (0.402")	6.000	6.00	8.00	Plastic	BLB-01020-00600-W3
11.10 (0.437")	5.000	8.00	7.70	Plastic	BLB-01110-00500-W3
11.28 (0.444")	4.830	7.92	7.62	Plastic	BLB-01128-00483-W3
12.70 (0.500")	6.000 +0.012/-0.0	9.00	8.90	Plastic	BLB-01270-00600-W3
13.11 (0.516")	6.350	9.53	8.99	Plastic	BLB-01311-00635-W3
13.20 (0.520")	8.000	8.00	10.00	Plastic	BLB-01320-00800-W3
15.80 (0.622")	8.000	12.00	10.30	Plastic	BLB-01580-00800-W3
15.88 (0.625")	7.940	11.10	11.35	Plastic	BLB-01588-00794-W3
16.00 (0.630")	10.000	9.00	13.00	Plastic	BLB-01600-01000-W3
18.00 (0.709")	12.000	10.00	15.00	Plastic	BLB-01800-01200-W3
18.24 (0.718")	9.530	12.70	12.80	Plastic	BLB-01824-00953-W3
19.00 (0.748")	10.000	14.00	12.90	Plastic	BLB-01900-01000-W3
21.03 (0.828")	11.110	14.27	15.27	Plastic	** BLB-02103-01111-W3
22.00 (0.866")	15.000	12.00	18.00	Plastic	BLB-02200-01500-W3
22.22 (0.875")	12.000	16.00	15.40	Plastic	BLB-02222-01200-W3
23.83 (0.938")	12.700	15.88	17.78	Plastic	BLB-02383-01270-W3
25.10 (0.988")	17.000	14.00	20.00	Plastic	BLB-02510-01700-W3
25.25 (0.994")	14.000	19.00	16.80	Plastic	BLB-02525-01400-W3
28.30 (1.114")	16.000	21.00	19.30	Plastic	BLB-02830-01600-W3
28.58 (1.125")	15.880	19.05	21.28	Plastic	BLB-02858-01588-W3
28.90 (1.138")	20.000	16.00	24.00	Plastic	BLB-02890-02000-W3
31.35 (1.234")	18.000	23.00	21.80	Plastic	BLB-03135-01800-W3
33.32 (1.312")	19.050	22.23	24.84	Plastic	BLB-03332-01905-W3
34.90 (1.374")	20.000	25.00	24.30	Plastic	BLB-03490-02000-W3
35.50 (1.398")	25.000	20.00	29.00	Plastic	BLB-03550-02500-W3
38.10 (1.500")	22.000	28.00	25.80	Plastic	BLB-03810-02200-W3
40.90 (1.610")	30.000	22.00	34.00	Plastic	BLB-04090-03000-W3
42.80 (1.685")	25.000	31.00	29.50	Plastic	BLB-04280-02500-W3
44.45 (1.750")	25.400	34.93	32.23	Plastic	BLB-04445-02540-W3
51.00 (2.008")	30.000	37.00	34.80	Plastic	BLB-05100-03000-W3



 Usually stocked or Short Delivery  
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 Long Delivery or Large Minimum Quantities  
 Not in current production

# Rubber Balls



Diameter (D) mm	Material	Precision Grade	Hardness	Part Number
3.00 (0.118") +/-0.051	Santoprene Rubber	Grade II	Shore 40D	BL-00300-R40D-OEM
3.00 (0.118") +/-0.051	Santoprene Rubber	Grade II	Shore 40D	BL-00300-R40D
4.76 (0.187") +/-0.051	Santoprene Rubber	Grade II	Shore 40D	BL-00476-R40D
4.76 (0.187") +/-0.051	Santoprene Rubber	Grade 3	Shore 87A	BL-00476-R87A
6.35 (0.250") +/-0.076	Nitrile (BUNA-N)	Grade 2	65 to 75A Duro	BL-00635-NR
12.70 (0.500") +/-0.051	Santoprene Rubber	Grade II	Shore 40D	BL-01270-R40D
15.88 (0.625") +/-0.051	Santoprene Rubber	Grade 3	Shore 87A	BL-01588-R87A
19.05 (0.750") +/-0.051	Santoprene Rubber	Grade II	Shore 40D	BL-01905-R40D
19.05 (0.750") +/-0.051	Santoprene Rubber	Grade 3	Shore 87A	BL-01905-R87A
25.40 (1.000") +/-0.051	Santoprene Rubber	Grade 3	Shore 87A	BL-02540-R87A
31.75 (1.250") +/-0.127	Santoprene Rubber	Grade III	Shore 40D	BL-03175-R40D
31.75 (1.250") +/-0.127	Santoprene Rubber	Grade 3	Shore 87A	BL-03175-R87A
38.10 (1.500") +/-0.127	Santoprene Rubber	Grade III	Shore 40D	BL-03810-R40D
38.10 (1.500") +/-0.127	Santoprene Rubber	Grade 3	Shore 87A	BL-03810-R87A
44.45 (1.750") +/-0.127	Santoprene Rubber	Grade III	Shore 40D	BL-04445-R40D
44.45 (1.750") +/-0.127	Santoprene Rubber	Grade 3	Shore 87A	BL-04445-R87A
50.80 (2.000") +/-0.127	Santoprene Rubber	Grade 3	Shore 87A	BL-05080-R87A
57.15 (2.250") +/-0.127	Santoprene Rubber	Grade III	Shore 40D	BL-05715-R40D
57.15 (2.250") +/-0.127	Santoprene Rubber	Grade 3	Shore 87A	BL-05715-R87A
63.50 (2.500") +/-0.127	Santoprene Rubber	Grade 3	Shore 87A	BL-06350-R87A
69.85 (2.750") +/-0.127	Santoprene Rubber	Grade 3	Shore 87A	BL-06985-R87A
82.55 (3.250") +/-0.127	Santoprene Rubber	Grade 3	Shore 87A	BL-08255-R87A
95.25 (3.750") +/-0.127	Santoprene Rubber	Grade 3	Shore 87A	BL-09525-R87A



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## Threaded Metallic Balls



Diameter (D) mm	Thread Size	Precision Grade	Hardness	Material	Part Number
3.000 (0.118") +/-0.01270	M1.6x0.35 Thread x 1.5mm Deep	Grade 100	35 Rockwell C	Titanium Ti-Gr23 Ti-6Al4V-ELI	<a href="#">BLT-00300-T23-16</a>
3.000 (0.118") +/-0.01270	M1.2x0.25 Thread x 1.5mm Deep	Grade 100	35 Rockwell C	Titanium Ti-Gr23 Ti-6Al4V-ELI	<a href="#">BLT-00300-T23-12</a>
4.000 (0.157") +/-0.01270	M1.6x0.35 Thread x 2mm Deep	Grade 100	35 Rockwell C	Titanium Ti-Gr23 Ti-6Al4V-ELI	<a href="#">BLT-00400-T23-16</a>
4.000 (0.157") +/-0.01270	M1.2x0.25 Thread x 2mm Deep	Grade 100	35 Rockwell C	Titanium Ti-Gr23 Ti-6Al4V-ELI	<a href="#">BLT-00400-T23-12</a>
5.000 (0.197") +/-0.01270	M1.2x0.25 Thread x 2.5mm Deep	Grade 100	35 Rockwell C	Titanium Ti-Gr23 Ti-6Al4V-ELI	<a href="#">BLT-00500-T23-12</a>
5.000 (0.197") +/-0.01270	M1.6x0.35 Thread x 2.5mm Deep	Grade 100	35 Rockwell C	Titanium Ti-Gr23 Ti-6Al4V-ELI	<a href="#">BLT-00500-T23-16</a>
6.000 (0.236") +/-0.01270	M1.2x0.25 Thread x 3mm Deep	Grade 100	35 Rockwell C	Titanium Ti-Gr23 Ti-6Al4V-ELI	<a href="#">BLT-00600-T23-12</a>
6.000 (0.236") +/-0.01270	M1.6x0.35 Thread x 3mm Deep	Grade 100	35 Rockwell C	Titanium Ti-Gr23 Ti-6Al4V-ELI	<a href="#">BLT-00600-T23-16</a>
8.000 (0.315") +/-0.01270	M1.6x0.35 Thread x 4mm Deep	Grade 100	35 Rockwell C	Titanium Ti-Gr23 Ti-6Al4V-ELI	<a href="#">BLT-00800-T23-16</a>
8.000 (0.315") +/-0.01270	M1.2x0.25 Thread x 4mm Deep	Grade 100	35 Rockwell C	Titanium Ti-Gr23 Ti-6Al4V-ELI	<a href="#">BLT-00800-T23-12</a>



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# Tooling Balls



Diameter (A) mm	Shank Diameter (B) mm	Base to Centre (C) mm	Shoulder to Centre (D) mm	Part Number
6.000 (0.236") +/- 0.0051	3.000 +0.0000 / -0.0102	10.000 +/- 0.0051	6.000	BLTO-00600-CS-1S
6.000 (0.236") +/- 0.0051	3.000 +0.0000 / -0.0076	10.000 +/- 0.0051	6.000	BLTO-00600-S440-1SP
6.350 (0.250") +/- 0.0051	3.175 +0.0000 / -0.0076	14.224	5.080	BLTO-00635-CS-S2P
6.350 (0.250") +/- 0.0051	3.175 +0.0000 / -0.0102	14.224	5.080	BLTO-00635-CS-S2
6.350 (0.250") +/- 0.0051	3.175 +0.0000 / -0.0102	14.300		BLTO-00635-CS-1
6.350 (0.250") +/- 0.0051	3.175 +0.0000 / -0.0102	14.300		BLTO-00635-CS-2
6.350 (0.250") +/- 0.0051	3.175 +0.0000 / -0.0076	14.300		BLTO-00635-CS-2P
6.350 (0.250") +/- 0.0051	3.175 +0.0000 / -0.0102	14.300		BLTO-00635-S440-1
6.350 (0.250") +/- 0.0051	3.175 +0.0000 / -0.0076	14.300		BLTO-00635-S440-1P
6.350 (0.250") +/- 0.0051	3.175 +0.0000 / -0.0076	14.300		BLTO-00635-CS-1P
6.350 (0.250") +/- 0.0051	3.175 +0.0000 / -0.0102	14.300	5.080	BLTO-00635-S440-1S
6.350 (0.250") +/- 0.0051	3.175 +0.0000 / -0.0076	14.300	5.080	BLTO-00635-CS-1SP
6.350 (0.250") +/- 0.0051	3.175 +0.0000 / -0.0076	14.300	5.080	BLTO-00635-S440-1SP
6.350 (0.250") +/- 0.0051	3.175 +0.0000 / -0.0102	14.300	5.080	BLTO-00635-CS-1S
9.525 (0.375") +/- 0.0051	4.763 +0.0000 / -0.0076	19.050		BLTO-00953-S440-1P
9.525 (0.375") +/- 0.0051	4.763 +0.0000 / -0.0102	19.050		BLTO-00953-S440-1
9.525 (0.375") +/- 0.0051	4.763 +0.0000 / -0.0076	19.050		BLTO-00953-CS-2P
9.525 (0.375") +/- 0.0051	4.763 +0.0000 / -0.0102	19.050		BLTO-00953-CS-2
9.525 (0.375") +/- 0.0051	4.763 +0.0000 / -0.0102	19.050		BLTO-00953-CS-1
9.525 (0.375") +/- 0.0051	4.763 +0.0000 / -0.0076	19.050		BLTO-00953-CS-1P
9.525 (0.375") +/- 0.0051	4.763 +0.0000 / -0.0076	19.050	7.620	BLTO-00953-S440-1SP
9.525 (0.375") +/- 0.0051	4.763 +0.0000 / -0.0076	19.050	7.620	BLTO-00953-CS-1SP
9.525 (0.375") +/- 0.0051	4.763 +0.0000 / -0.0076	19.050	7.620	BLTO-00953-CS-S2P
9.525 (0.375") +/- 0.0051	4.763 +0.0000 / -0.0102	19.050	7.620	BLTO-00953-CS-S2
9.525 (0.375") +/- 0.0051	4.763 +0.0000 / -0.0102	19.050	7.620	BLTO-00953-CS-1S
9.525 (0.375") +/- 0.0051	4.763 +0.0000 / -0.0102	19.050	7.620	BLTO-00953-S440-1S
12.000 (0.472") +/- 0.0051	6.000 +/- 0.0051	22.000	12.000	BLTO-01200-CS-C1
12.000 (0.472") +/- 0.0051	6.000 +/- 0.0051	22.000	12.000	BLTO-01200-CS-C1-T
12.700 (0.500") +/- 0.0051	6.350 +/- 0.0051	7.925	7.938	BLTO-01270-S440-C1
12.700 (0.500") +/- 0.0051	6.350 +/- 0.0051	7.925	7.938	BLTO-01270-CS-C1-T
12.700 (0.500") +/- 0.0051	6.350 +/- 0.0051	7.925	7.938	BLTO-01270-S440-C1-T
12.700 (0.500") +/- 0.0051	6.350 +/- 0.0051	7.925	7.938	BLTO-01270-CS-C1
12.700 (0.500") +/- 0.0051	6.350 +0.0000 / -0.0102	15.875	7.938	BLTO-01270-CS-S2-A



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# Tooling Balls



Diameter (A) mm	Shank Diameter (B) mm	Base to Centre (C) mm	Shoulder to Centre (D) mm	Part Number
12.700 (0.500") +/- 0.0051	6.350 +/- 0.0051	15.875	7.938	BLTO-01270-CS-C2-A
12.700 (0.500") +/- 0.0051	6.350 +/- 0.0051	22.225	12.700	BLTO-01270-CS-C2-B
12.700 (0.500") +/- 0.0051	6.350 +0.0000 / - 0.0076	23.876		BLTO-01270-CS-2P-A
12.700 (0.500") +/- 0.0051	6.350 +0.0000 / -0.0102	23.876		BLTO-01270-CS-2-A
12.700 (0.500") +/-0.0051	6.350 +0.0000 / -0.0076	23.876		BLTO-01270-CS-1P-A
12.700 (0.500") +/-0.0051	6.350 +0.0000 / -0.0102	23.876		BLTO-01270-CS-1-A
12.700 (0.500") +/- 0.0051	6.350 +0.0000 / - 0.0076	23.876	10.160	BLTO-01270-CS-S2P-A
12.700 (0.500") +/- 0.0051	6.350 +0.0000 / -0.0102	23.876	10.160	BLTO-01270-CS-S2-B
12.700 (0.500") +/- 0.0051	6.350 +0.0000 / -0.0102	23.876	10.160	BLTO-01270-S440-1S-A
12.700 (0.500") +/- 0.0051	6.350 +0.0000 / -0.0076	23.876	10.160	BLTO-01270-CS-1SP-A
12.700 (0.500") +/- 0.0051	6.350 +0.0000 / -0.0102	23.876	10.160	BLTO-01270-CS-1S-A
12.700 (0.500") +/- 0.0051	6.350 +0.0000 / -0.0076	23.876	10.160	BLTO-01270-S440-1SP-A
12.700 (0.500") +/- 0.0051	6.350 +/- 0.0051	23.876	12.700	BLTO-01270-CS-C2-C
12.700 (0.500") +/- 0.0051	6.350 +0.0000 / - 0.0076	28.575	12.700	BLTO-01270-CS-S2P-B
12.700 (0.500") +/- 0.0051	6.350 +0.0000 / -0.0102	28.575	12.700	BLTO-01270-CS-S2-C
12.700 (0.500") +/- 0.0051	6.350 +0.0000 / - 0.0076	34.925	12.700	BLTO-01270-CS-S2P-C
12.700 (0.500") +/- 0.0051	6.350 +0.0000 / -0.0076	34.925	12.700	BLTO-01270-CS-1SP-B
12.700 (0.500") +/- 0.0051	6.350 +0.0000 / -0.0102	34.925	12.700	BLTO-01270-CS-1S-B
12.700 (0.500") +/- 0.0051	6.350 +0.0000 / -0.0102	34.925	12.700	BLTO-01270-S440-1S-B
12.700 (0.500") +/- 0.0051	6.350 +0.0000 / -0.0102	34.925	12.700	BLTO-01270-CS-S2-D
12.700 (0.500") +/- 0.0051	6.350 +0.0000 / -0.0076	34.925	12.700	BLTO-01270-S440-1SP-B
12.700 (0.500") +/- 0.0051	6.350 +0.0000 / -0.0102	38.100		BLTO-01270-CS-2-B
12.700 (0.500") +/-0.0051	6.350 +0.0000 / -0.0076	38.100		BLTO-01270-CS-1P-B
12.700 (0.500") +/-0.0051	6.350 +0.0000 / -0.0102	38.100		BLTO-01270-CS-1-B
12.700 (0.500") +/- 0.0051	6.350 +0.0000 / - 0.0076	38.100		BLTO-01270-CS-2P-B
12.700 (0.500") +/- 0.0051	6.350 +0.0000 / -0.0102	38.100	12.700	BLTO-01270-CS-S2-E
12.700 (0.500") +/- 0.0051	6.350 +0.0000 / - 0.0076	41.275	25.400	BLTO-01270-CS-S2P-D
12.700 (0.500") +/- 0.0051	6.350 +0.0000 / -0.0102	41.275	25.400	BLTO-01270-CS-S2-F
12.700 (0.500") +/- 0.0051	6.350 +0.0000 / -0.0102	47.625	31.750	BLTO-01270-CS-S2-G
12.700 (0.500") +/- 0.0051	6.350 +0.0000 / -0.0102	73.025		BLTO-01270-CS-2-C
12.700 (0.500") +/- 0.0051	7.938 +/- 0.0051	23.876	12.700	BLTO-01270-CS-C2-D
12.700 (0.500") +/- 0.0051	7.938 +0.0000 / -0.0102	38.100		BLTO-01270-CS-2-D
12.700 (0.500") +/- 0.0051	7.938 +0.0000 / -0.0102	38.100	12.700	BLTO-01270-CS-S2-H



 Usually stocked or Short Delivery  
 \*\* Available while stocks last \*\*

 Long Delivery or Large Minimum Quantities  
 Not in current production

## Tooling Balls

Diameter (A) mm	Shank Diameter (B) mm	Base to Centre (C) mm	Shoulder to Centre (D) mm	Part Number
12.700 (0.500") +/- 0.0051	9.525 +0.0000 / -0.0076	38.100		BLTO-01270-CS-1P-C
12.700 (0.500") +/- 0.0051	9.525 +0.0000 / -0.0102	38.100		BLTO-01270-CS-1-C
12.700 (0.500") +/- 0.0051	9.525 +0.0000 / -0.0102	38.100	12.700	BLTO-01270-CS-S2-J
15.875 (0.625") +/- 0.0051	7.938 +0.0000 / -0.0076	26.670	11.430	BLTO-01588-CS-S2P
15.875 (0.625") +/- 0.0051	7.938 +0.0000 / -0.0102	26.670	11.430	BLTO-01588-CS-S2
15.875 (0.625") +/- 0.0051	7.938 +0.0000 / -0.0102	27.000		BLTO-01588-CS-2
15.875 (0.625") +/- 0.0051	7.938 +0.0000 / -0.0076	27.000		BLTO-01588-CS-2P
19.050 (0.750") +/- 0.0051	9.525 +0.0000 / -0.0102	31.750		BLTO-01905-CS-2
19.050 (0.750") +/- 0.0051	9.525 +0.0000 / -0.0076	31.750		BLTO-01905-CS-2P
19.050 (0.750") +/- 0.0051	9.525 +0.0000 / -0.0102	31.750	12.700	BLTO-01905-CS-1S
19.050 (0.750") +/- 0.0051	9.525 +0.0000 / -0.0102	31.750	12.700	BLTO-01905-CS-S2
19.050 (0.750") +/- 0.0051	9.525 +0.0000 / -0.0076	31.750	12.700	BLTO-01905-CS-S2P
19.050 (0.750") +/- 0.0051	9.525 +0.0000 / -0.0076	31.750	12.700	BLTO-01905-S440-1SP
22.225 (0.875") +/- 0.0051	11.113 +0.0000 / -0.0076	36.576		BLTO-02223-CS-2P
25.400 (1.000") +/- 0.0051	12.700 +0.0000 / -0.0102	41.275		BLTO-02540-CS-2
25.400 (1.000") +/- 0.0051	12.700 +0.0000 / -0.0076	41.275		BLTO-02540-CS-2P
25.400 (1.000") +/- 0.0051	12.700 +0.0000 / -0.0076	41.275	17.780	BLTO-02540-CS-S2P
25.400 (1.000") +/- 0.0051	12.700 +0.0000 / -0.0102	41.275	17.780	BLTO-02540-CS-S2

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## TIPS

Chrome steel and 440C stainless are bearing grade balls. 304 and 316 grade stainless are softer and used for corrosion resistance and low load.

440C grade stainless is highly magnetic. 304 and 316 grade stainless are slightly magnetic.

Threaded Titanium balls are suitable for body piercings.

Silicon Nitride ( $\text{Si}_3\text{N}_4$ ) is a grey ceramic. Zirconia ( $\text{ZrO}_2$ ) is off white. Ruby is a reddish colour and sapphire has a glassy appearance, but not perfectly clear.

Precision grades indicate the tolerance of the diameter and the roundness. The lower the number the more precise.

<http://www.minibearings.com.au/technical/balls/grades/>

Polypropylene balls float in water and can be used for float levels.

Rubber balls are not toys. They are used for chemical applications. Refer to the website for full details.

<http://www.minibearings.com.au/store/categories/santoprene/>





## Distributed By

Miniature Bearings Australia  
<http://www.minibearings.com.au>  
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# Balls Range