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**WE
FOCUS ON ...**

Ball Retainer Roller Guid Bearings

- FZH Copper Retainer
- FZL Aluminum Retainer
- FZP POM Retainer



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ISO9001:2000
STANDARDIZED
SLIDING BEARING FACTORY

Product List



Ball Retainer Roller Guide Bearings

This is copper or aluminum or plastic based material, on which the rollers are arranged orderly in certain angle and intervals. Moreover, the retaining technique is improved that dropping of the rollers can be thoroughly prevented. The friction is low and can move freely both in radial and in axial directions, and the bearing is in high precision. This is a young generation of the roller bearing which can roll in high speed, and is used in rolling frame of cold impact moulds, high precision machine tools and their accessories.



Ball Retainer, High Precision Roller Guide Bearings

CLI040 FZH

Material: **Bronze Retainer + steel ball (GCr15 chrome steel)**

3/24

High accuracy

Low-maintenance



Ball Retainer, High Precision Roller Guide Bearings

CLI041 FZL

Material: **Aluminum Retainer + steel ball (GCr15 chrome steel)**

4/24

High accuracy

Low-maintenance



Ball Retainer, High Precision Roller Guide Bearings

CLI042 FZP

Material: **POM Retainer + steel ball (GCr15 chrome steel)**

5/24

High accuracy

Low-maintenance

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● **Product Code: CLI-040 FZH Ball Retainer, High Precision Roller Guide Bearings**



● **Descriptions**

Material: **Bronze Retainer + steel ball (GCr15 chrome steel)**

High accuracy

Low-maintenance

● **Features**

1. Easy assemblage & Smooth running & High guide accuracy.
2. High load capacity / Guide stability & High speed & acceleration / interchangeable.
3. Low maintenance & Long life & Special designation.

● **Possible Applications**

The product is widely used in applications of precision machinery, stamping mould and punching die.

● **Advantages**

1. Low Coef Friction
2. Long life span
3. High movement accuracy
4. Be Proper for straight line and spiral movement
5. Fast Movement

● **Physical and Mechanical Properties**

| | | |
|--|------|-------|
| Maximum Operating Temperature Tmax | 280 | °C |
| Minimum Operating Temperature Tmin | -200 | °C |
| Maximum Static Load Psta,max | 140 | N/mm2 |
| Maximum Dynamic Load Pdyn,max | 140 | N/mm2 |
| Maximum Dry Sliding Speed V | 2.5 | m/s |
| Maximum Oil Lubricated Sliding Speed V | 5.0 | m/s |

● **Available Forms**



Spiral Array

FZH-A



Straight Line

FZH-B



● **Product Code: CLI-041 FZL Ball Retainer, High Precision Roller Guide Bearings**



● **Descriptions**

Material: **Aluminum retainer + steel ball (GCr15 chrome steel)**

- High accuracy
- Low-maintenance

● **Features**

1. Easy assemblage & Smooth running & High guide accuracy.
2. High load capacity / Guide stability & High speed & acceleration / interchangeable.
3. Low maintenance & Long life & Special designation.

● **Possible Applications**

The product is widely used in applications of precision machinery, stamping mould and punching die.

● **Advantages**

1. Low Coef Friction
2. Long life span
3. High movement accuracy
4. Be Proper for straight line and spiral movement
5. Fast Movement

● **Physical and Mechanical Properties**

| | | |
|--|------|-------------------|
| Maximum Operating Temperature Tmax | 280 | °C |
| Minimum Operating Temperature Tmin | -200 | °C |
| Maximum Static Load Psta,max | 140 | N/mm ² |
| Maximum Dynamic Load Pdyn,max | 140 | N/mm ² |
| Maximum Dry Sliding Speed V | 2.5 | m/s |
| Maximum Oil Lubricated Sliding Speed V | 5.0 | m/s |

● **Available Forms**



Spiral Array

FZL-A



Straight Line

FZL-B



● **Product Code: CLI-042 FZP Ball Retainer, High Precision Roller Guide Bearings**



● **Descriptions**

Material: **POM Retainer + steel ball (GCr15 chrome steel)**
High accuracy
Low-maintenance

● **Features**

1. Easy assemblage & Smooth running & High guide accuracy.
2. High load capacity / Guide stability & High speed & acceleration / interchangeable.
3. Low maintenance & Long life & Special designation.

● **Possible Applications**

The product is widely used in applications of precision machinery, stamping mould and punching die.

● **Advantages**

1. Low Coef Friction
2. Long life span
3. High movement accuracy
4. Be Proper for straight line and spiral movement
5. Fast Movement

● **Physical and Mechanical Properties**

| | | |
|--|------|-------|
| Maximum Operating Temperature Tmax | 280 | °C |
| Minimum Operating Temperature Tmin | -200 | °C |
| Maximum Static Load Psta,max | 140 | N/mm2 |
| Maximum Dynamic Load Pdyn,max | 140 | N/mm2 |
| Maximum Dry Sliding Speed V | 2.5 | m/s |
| Maximum Oil Lubricated Sliding Speed V | 5.0 | m/s |

● **Available Forms**



Spiral Array

FZP-A

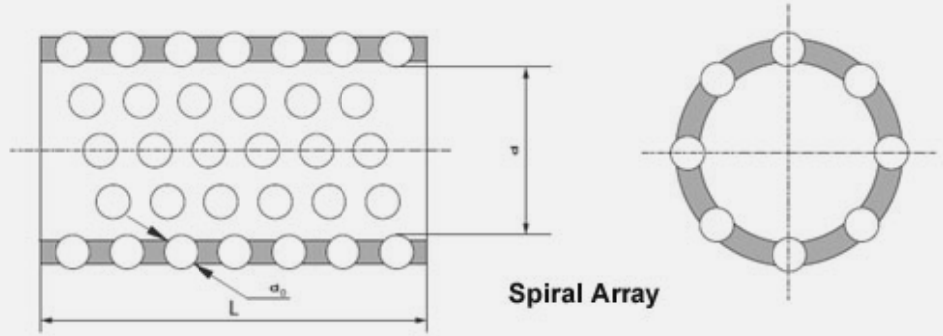


Straight Line

FZP-B



CLI040 FZH-A Ball Retainer, High Precision Roller Guide Bearings



| Product No. | Dimensions (mm) | | | | |
|---------------|-----------------|----|----|-----|-----|
| | d0 | d | L | n | |
| FZHA 2.5 1040 | 2.5 | 10 | 40 | 72 | |
| FZHA 3 1843 | 3 | 18 | 43 | 74 | |
| FZHA 3 1850 | | | 50 | 90 | |
| FZHA 3 1855 | | | 55 | 100 | |
| FZHA 3 1860 | | | 60 | 112 | |
| FZHA 3 1864 | | | 64 | 120 | |
| FZHA 3 1876 | | | 76 | 146 | |
| FZHA 3 1943 | | | 19 | 43 | 74 |
| FZHA 3 1950 | | | | 50 | 90 |
| FZHA 3 1955 | | 55 | | 100 | |
| FZHA 3 1960 | | 60 | | 112 | |
| FZHA 3 2043 | | 20 | 43 | 74 | |
| FZHA 3 2050 | | | 50 | 90 | |
| FZHA 3 2055 | | | 55 | 100 | |
| FZHA 3 2060 | | | 60 | 112 | |
| FZHA 3 2064 | | | 64 | 120 | |
| FZHA 3 2075 | | | 75 | 144 | |
| FZHA 3 2143 | | 21 | 43 | 74 | |
| FZHA 3 2150 | | | 50 | 90 | |
| FZHA 3 2155 | | | 55 | 100 | |
| FZHA 3 2160 | | | 60 | 112 | |
| FZHA 3 2165 | 3 | 22 | 65 | 122 | |
| FZHA 3 2250 | | | 50 | 90 | |
| FZHA 3 2255 | | | 55 | 100 | |
| FZHA 3 2260 | | | 60 | 112 | |
| FZHA 3 2264 | | | 64 | 120 | |
| FZHA 3 2270 | | | 70 | 132 | |
| FZHA 3 2360 | | 23 | 60 | 112 | |
| FZHA 3 2460 | | | 24 | 60 | 112 |
| FZHA 3 2465 | | | | 65 | 122 |
| FZHA 3 2470 | | | | 70 | 132 |

| | | | | | |
|-------------|----|----|-----|-----|-----|
| FZHA 3 2475 | 4 | 25 | 75 | 144 | |
| FZHA 3 2480 | | | 80 | 154 | |
| FZHA 3 2548 | | | 48 | 86 | |
| FZHA 3 2550 | | | 50 | 90 | |
| FZHA 3 2555 | | | 55 | 100 | |
| FZHA 3 2560 | | | 60 | 112 | |
| FZHA 3 2564 | | | 64 | 120 | |
| FZHA 3 2575 | | | 75 | 144 | |
| FZHA 3 2576 | | | 76 | 146 | |
| FZHA 3 2580 | | | 80 | 154 | |
| FZHA 3 2585 | | | 85 | 164 | |
| FZHA 3 2660 | | | 60 | 112 | |
| FZHA 3 2665 | | | 65 | 122 | |
| FZHA 3 2670 | | | 70 | 132 | |
| FZHA 3 2680 | | | 80 | 154 | |
| FZHA 3 2685 | | 85 | 164 | | |
| FZHA 3 2775 | | 27 | 75 | 144 | |
| FZHA 4 2860 | | 4 | 28 | 60 | 108 |
| FZHA 4 2864 | | | | 64 | 118 |
| FZHA 4 2875 | | | | 75 | 142 |
| FZHA 4 2876 | | | | 76 | 144 |
| FZHA 4 2884 | | | | 84 | 160 |
| FZHA 4 2890 | | | | 90 | 174 |
| FZHA 4 3053 | | | 30 | 53 | 94 |
| FZHA 4 3060 | | | | 60 | 108 |
| FZHA 4 3065 | | | | 65 | 120 |
| FZHA 4 3070 | | | | 70 | 130 |
| FZHA 4 3075 | 75 | | | 140 | |
| FZHA 4 3080 | 80 | | | 152 | |
| FZHA 4 3085 | 85 | | 162 | | |
| FZHA 4 3140 | 31 | | 40 | 66 | |
| FZHA 4 3150 | | | 50 | 88 | |
| FZHA 4 3160 | | | 60 | 108 | |
| FZHA 4 3175 | | | 75 | 142 | |
| FZHA 4 3185 | | | 85 | 162 | |
| FZHA 4 3250 | | 4 | 32 | 50 | 88 |
| FZHA 4 3253 | 53 | | | 94 | |
| FZHA 4 3260 | 60 | | | 108 | |
| FZHA 4 3270 | 70 | | | 130 | |
| FZHA 4 3275 | 75 | | | 140 | |
| FZHA 4 3276 | 76 | | | 142 | |
| FZHA 4 3284 | 84 | | | 160 | |
| FZHA 4 3285 | 85 | | | 162 | |
| FZHA 4 3290 | 90 | | | 174 | |
| FZHA 4 3295 | 95 | | 184 | | |
| FZHA 4 3470 | 34 | 70 | 130 | | |

| | | | | | |
|--------------|----|----|-----|-----|-----|
| FZHA 4 3475 | | | 75 | 142 | |
| FZHA 4 3480 | | | 80 | 152 | |
| FZHA 4 3490 | | | 90 | 174 | |
| FZHA 4 3495 | | | 95 | 184 | |
| FZHA 4 3570 | | | 35 | 70 | 130 |
| FZHA 4 3576 | | | | 76 | 144 |
| FZHA 4 3584 | | | | 84 | 160 |
| FZHA 4 3590 | | | | 90 | 174 |
| FZHA 4 3595 | | 95 | 184 | | |
| FZHA 4 3680 | | 36 | 80 | 152 | |
| FZHA 4 3685 | | | 85 | 162 | |
| FZHA 4 3690 | | | 90 | 174 | |
| FZHA 5 3795 | | 5 | 37 | 95 | 182 |
| FZHA 5 3868 | | | 38 | 68 | 124 |
| FZHA 5 3870 | | | | 70 | 128 |
| FZHA 5 3875 | | | | 75 | 138 |
| FZHA 5 3880 | 80 | | | 150 | |
| FZHA 5 3885 | 85 | | | 160 | |
| FZHA 5 3890 | 90 | | | 172 | |
| FZHA 5 3895 | 95 | | | 182 | |
| FZHA 5 4068 | 40 | | | 68 | 124 |
| FZHA 5 4075 | | | 75 | 138 | |
| FZHA 5 4080 | | | 80 | 150 | |
| FZHA 5 4085 | | | 85 | 160 | |
| FZHA 5 4090 | | | 90 | 172 | |
| FZHA 5 4095 | | | 95 | 182 | |
| FZHA 5 4270 | | | 42 | 70 | 128 |
| FZHA 5 4275 | | | | 75 | 138 |
| FZHA 5 4280 | 80 | | | 150 | |
| FZHA 5 4285 | 85 | | | 160 | |
| FZHA 5 4290 | 90 | | | 172 | |
| FZHA 5 4295 | 95 | | | 182 | |
| FZHA 5 4573 | 5 | | 45 | 73 | 134 |
| FZHA 5 4580 | | | | 80 | 150 |
| FZHA 5 4585 | | | | 85 | 160 |
| FZHA 5 4590 | | | | 90 | 172 |
| FZHA 5 4595 | | | | 95 | 182 |
| FZHA 5 45100 | | | | 100 | 192 |
| FZHA 5 45110 | | | 110 | 214 | |
| FZHA 5 4870 | | | 48 | 70 | 128 |
| FZHA 5 4880 | | 80 | | 150 | |
| FZHA 5 4890 | | 90 | | 172 | |
| FZHA 5 4895 | | 95 | | 182 | |
| FZHA 5 5070 | | 50 | 70 | 128 | |
| FZHA 5 5080 | 80 | | 150 | | |
| FZHA 5 5090 | 90 | | 172 | | |

| | | | | | |
|---------------|-----|-----|-----|-----|-----|
| FZHA 5 5095 | | | 95 | 182 | |
| FZHA 5 50100 | | | 100 | 192 | |
| FZHA 5 50110 | | | 110 | 214 | |
| FZHA 5 5270 | | | 52 | 70 | 128 |
| FZHA 5 5280 | | | | 80 | 150 |
| FZHA 5 5290 | | | | 90 | 172 |
| FZHA 5 5295 | | | | 95 | 182 |
| FZHA 5 5580 | | | 55 | 80 | 150 |
| FZHA 5 5590 | | | | 90 | 172 |
| FZHA 5 55100 | | | | 100 | 192 |
| FZHA 5 56106 | 56 | 106 | 206 | | |
| FZHA 5 5880 | 58 | 80 | 150 | | |
| FZHA 5 5890 | | 90 | 172 | | |
| FZHA 5 58100 | | 100 | 192 | | |
| FZHA 5 6080 | 60 | 80 | 150 | | |
| FZHA 5 6090 | | 90 | 172 | | |
| FZHA 5 60100 | | 100 | 192 | | |
| FZHA 5 60110 | | 110 | 214 | | |
| FZHA 5 7090 | 70 | 90 | 170 | | |
| FZHA 5 7095 | | 95 | 182 | | |
| FZHA 5 70100 | | 100 | 192 | | |
| FZHA 5 70110 | | 110 | 214 | | |
| FZHA 5 7590 | 75 | 90 | 172 | | |
| FZHA 5 7595 | | 95 | 182 | | |
| FZHA 5 75100 | | 100 | 192 | | |
| FZHA 5 75110 | | 110 | 214 | | |
| FZHA 5 8090 | 80 | 90 | 172 | | |
| FZHA 5 80100 | | 100 | 192 | | |
| FZHA 5 80110 | | 110 | 214 | | |
| FZHA 5 80120 | | 120 | 236 | | |
| FZHA 5 80125 | | 125 | 246 | | |
| FZHA 5 80130 | | 130 | 258 | | |
| FZHA 5 8590 | 85 | 90 | 172 | | |
| FZHA 5 85100 | | 100 | 192 | | |
| FZHA 5 85110 | | 110 | 214 | | |
| FZHA 5 85120 | | 120 | 236 | | |
| FZHA 5 90100 | | 90 | 100 | 192 | |
| FZHA 5 90110 | 110 | | 214 | | |
| FZHA 5 90120 | 120 | | 236 | | |
| FZHA 5 90130 | 130 | | 258 | | |
| FZHA 5 90140 | 95 | 140 | 278 | | |
| FZHA 5 95120 | | 120 | 236 | | |
| FZHA 5 100100 | | 100 | 100 | 192 | |
| FZHA 5 100110 | | | 110 | 214 | |
| FZHA 5 100120 | 120 | | 236 | | |
| FZHA 5 100130 | 130 | | 258 | | |
| | | | | | |

| | | | | |
|---------------|--|--|-----|-----|
| FZHA 5 100140 | | | 140 | 278 |
| FZHA 5 100150 | | | 150 | 290 |

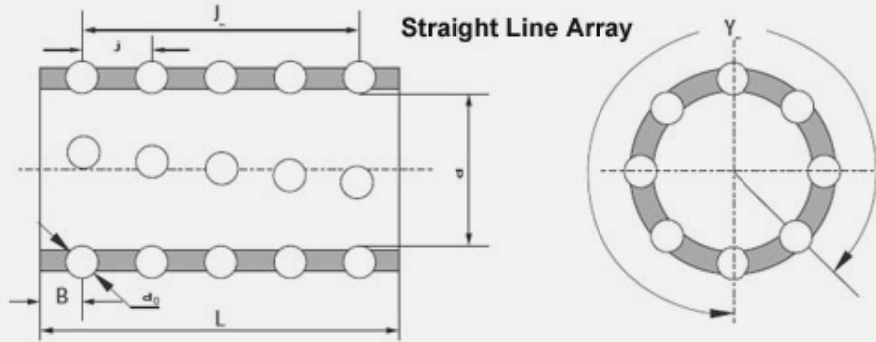
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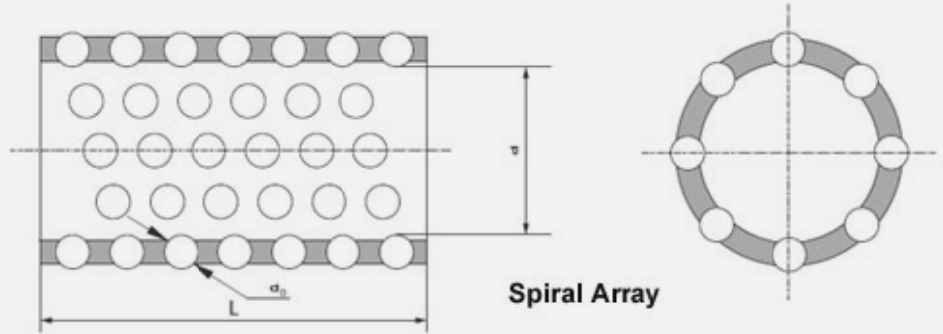
CL1040 FZH-B Ball Retainer, High Precision Roller Guide Bearings



| Product No. | Dimensions (mm) | | | | | | | | |
|--------------|-----------------|-----|----|----|-----|------|------|------|------|
| | d0 | d | L | Yn | Jn | n | j | B | |
| FZHB 3 1950 | 3 | 19 | 50 | 12 | 8 | 96 | 5.5 | 5.75 | |
| FZHB 3 1960 | | | 60 | | 10 | 120 | | 5.25 | |
| FZHB 3 2050 | | 20 | 50 | | 8 | 96 | | 5.75 | |
| FZHB 3 2060 | | | 60 | | 10 | 120 | | 5.25 | |
| FZHB 3 2250 | | 22 | 50 | 8 | 112 | 5.75 | | | |
| FZHB 3 2260 | | | 60 | 14 | 10 | 140 | 5.25 | | |
| FZHB 3 2360 | | 23 | 60 | 10 | 140 | 5.25 | | | |
| FZHB 3 2475 | | 24 | 75 | 13 | 208 | 5.45 | 4.8 | | |
| FZHB 3 2550 | | 25 | 50 | 8 | 128 | 5.5 | 5.75 | | |
| FZHB 3 2560 | | | 60 | 10 | 160 | | 5.25 | | |
| FZHB 3 2575 | | | 75 | 13 | 208 | 5.45 | 4.8 | | |
| FZHB 3 2775 | | | 27 | 75 | 13 | | 208 | 4.8 | |
| FZHB 4 2860 | | 4 | 28 | 60 | 14 | 8 | 112 | 6.5 | 7.25 |
| FZHB 4 2875 | | | | 75 | | 11 | 154 | | 5 |
| FZHB 4 3060 | | | 30 | 60 | | 8 | 112 | | 7.25 |
| FZHB 4 3075 | | | | 75 | | 11 | 154 | | 5 |
| FZHB 4 3260 | 32 | | 60 | 8 | 128 | 7.25 | | | |
| FZHB 4 3275 | | | 75 | 11 | 176 | 5 | | | |
| FZHB 4 3290 | 36 | | 90 | 13 | 208 | 6 | | | |
| FZHB 4 3685 | | | 85 | 12 | 192 | 6.75 | | | |
| FZHB 4 3690 | | | 90 | 13 | 208 | 6 | | | |
| FZHB 5 3870 | | | 5 | 38 | 70 | 8 | 128 | 8 | 7 |
| FZHB 5 3890 | 90 | 11 | | | 176 | 7.9 | 5.5 | | |
| FZHB 5 4090 | 40 | 90 | | 11 | 176 | | | | |
| FZHB 5 4590 | 45 | 90 | | 18 | 11 | | | 198 | |
| FZHB 5 45110 | | 110 | | 13 | 234 | | | 8 | 7 |
| FZHB 5 5090 | 50 | 90 | | 20 | 11 | 220 | 7.9 | 5.5 | |
| FZHB 5 50110 | | 110 | | 13 | 260 | 8 | 7 | | |
| FZHB 5 6090 | 60 | 90 | | 22 | 11 | 242 | 7.9 | 5.5 | |
| FZHB 5 60110 | | 110 | | 13 | 286 | 8 | 7 | | |
| FZHB 5 80130 | 80 | 130 | | 28 | 15 | 420 | 8 | 9 | |



CLI041 FZL-A Ball Retainer, High Precision Roller Guide Bearings



| Product No. | Dimensions (mm) | | | | |
|---------------|-----------------|----|-----|-----|----|
| | d0 | d | L | n | |
| FZLA 2.5 1040 | 2.5 | 10 | 40 | 72 | |
| FZLA 3 1843 | 3 | 18 | 43 | 74 | |
| FZLA 3 1850 | | | 50 | 90 | |
| FZLA 3 1855 | | | 55 | 100 | |
| FZLA 3 1860 | | | 60 | 112 | |
| FZLA 3 1864 | | | 64 | 120 | |
| FZLA 3 1876 | | | 76 | 146 | |
| FZLA 3 1943 | | | 19 | 43 | 74 |
| FZLA 3 1950 | | | | 50 | 90 |
| FZLA 3 1955 | | 55 | | 100 | |
| FZLA 3 1960 | | 60 | | 112 | |
| FZLA 3 2043 | | 20 | 43 | 74 | |
| FZLA 3 2050 | | | 50 | 90 | |
| FZLA 3 2055 | | | 55 | 100 | |
| FZLA 3 2060 | | | 60 | 112 | |
| FZLA 3 2064 | | | 64 | 120 | |
| FZLA 3 2075 | | | 75 | 144 | |
| FZLA 3 2143 | | 21 | 43 | 74 | |
| FZLA 3 2150 | | | 50 | 90 | |
| FZLA 3 2155 | | | 55 | 100 | |
| FZLA 3 2160 | | | 60 | 112 | |
| FZLA 3 2165 | | 22 | 65 | 122 | |
| FZLA 3 2250 | | | 50 | 90 | |
| FZLA 3 2255 | | | 55 | 100 | |
| FZLA 3 2260 | | | 60 | 112 | |
| FZLA 3 2264 | 64 | | 120 | | |
| FZLA 3 2270 | 70 | | 132 | | |
| FZLA 3 2360 | 23 | | 60 | 112 | |
| FZLA 3 2460 | | | 60 | 112 | |
| FZLA 3 2465 | 24 | | 65 | 122 | |
| FZLA 3 2470 | | | 70 | 132 | |

| | | | | |
|-------------|--|----|----|-----|
| FZLA 3 2475 | | | 75 | 144 |
| FZLA 3 2480 | | | 80 | 154 |
| FZLA 3 2548 | | | 48 | 86 |
| FZLA 3 2550 | | | 50 | 90 |
| FZLA 3 2555 | | | 55 | 100 |
| FZLA 3 2560 | | | 60 | 112 |
| FZLA 3 2564 | | 25 | 64 | 120 |
| FZLA 3 2575 | | | 75 | 144 |
| FZLA 3 2576 | | | 76 | 146 |
| FZLA 3 2580 | | | 80 | 154 |
| FZLA 3 2585 | | | 85 | 164 |
| FZLA 3 2660 | | | 60 | 112 |
| FZLA 3 2665 | | | 65 | 122 |
| FZLA 3 2670 | | 26 | 70 | 132 |
| FZLA 3 2680 | | | 80 | 154 |
| FZLA 3 2685 | | | 85 | 164 |
| FZLA 3 2775 | | 27 | 75 | 144 |
| FZLA 4 2860 | | | 60 | 108 |
| FZLA 4 2864 | | | 64 | 118 |
| FZLA 4 2875 | | | 75 | 142 |
| FZLA 4 2876 | | 28 | 76 | 144 |
| FZLA 4 2884 | | | 84 | 160 |
| FZLA 4 2890 | | | 90 | 174 |
| FZLA 4 3053 | | | 53 | 94 |
| FZLA 4 3060 | | | 60 | 108 |
| FZLA 4 3065 | | | 65 | 120 |
| FZLA 4 3070 | | 30 | 70 | 130 |
| FZLA 4 3075 | | | 75 | 140 |
| FZLA 4 3080 | | | 80 | 152 |
| FZLA 4 3085 | | | 85 | 162 |
| FZLA 4 3140 | | | 40 | 66 |
| FZLA 4 3150 | | | 50 | 88 |
| FZLA 4 3160 | | 31 | 60 | 108 |
| FZLA 4 3175 | | | 75 | 142 |
| FZLA 4 3185 | | | 85 | 162 |
| FZLA 4 3250 | | | 50 | 88 |
| FZLA 4 3253 | | | 53 | 94 |
| FZLA 4 3260 | | | 60 | 108 |
| FZLA 4 3270 | | | 70 | 130 |
| FZLA 4 3275 | | | 75 | 140 |
| FZLA 4 3276 | | 32 | 76 | 142 |
| FZLA 4 3284 | | | 84 | 160 |
| FZLA 4 3285 | | | 85 | 162 |
| FZLA 4 3290 | | | 90 | 174 |
| FZLA 4 3295 | | | 95 | 184 |
| FZLA 4 3470 | | 34 | 70 | 130 |
| | | | | |

| | | | | | |
|--------------|----|-----|-----|-----|-----|
| FZLA 4 3475 | | | 75 | 142 | |
| FZLA 4 3480 | | | 80 | 152 | |
| FZLA 4 3490 | | | 90 | 174 | |
| FZLA 4 3495 | | | 95 | 184 | |
| FZLA 4 3570 | | | 35 | 70 | 130 |
| FZLA 4 3576 | | | | 76 | 144 |
| FZLA 4 3584 | | | | 84 | 160 |
| FZLA 4 3590 | | 90 | | 174 | |
| FZLA 4 3595 | | 95 | 184 | | |
| FZLA 4 3680 | | 36 | 80 | 152 | |
| FZLA 4 3685 | | | 85 | 162 | |
| FZLA 4 3690 | | | 90 | 174 | |
| FZLA 5 3795 | | 5 | 37 | 95 | 182 |
| FZLA 5 3868 | | | 38 | 68 | 124 |
| FZLA 5 3870 | 70 | | | 128 | |
| FZLA 5 3875 | 75 | | | 138 | |
| FZLA 5 3880 | 80 | | | 150 | |
| FZLA 5 3885 | 85 | | | 160 | |
| FZLA 5 3890 | 90 | | | 172 | |
| FZLA 5 3895 | 95 | | | 182 | |
| FZLA 5 4068 | 40 | | 68 | 124 | |
| FZLA 5 4075 | | | 75 | 138 | |
| FZLA 5 4080 | | | 80 | 150 | |
| FZLA 5 4085 | | | 85 | 160 | |
| FZLA 5 4090 | | | 90 | 172 | |
| FZLA 5 4095 | | | 95 | 182 | |
| FZLA 5 4270 | | | 42 | 70 | 128 |
| FZLA 5 4275 | | | | 75 | 138 |
| FZLA 5 4280 | 80 | | | 150 | |
| FZLA 5 4285 | 85 | | | 160 | |
| FZLA 5 4290 | 90 | | | 172 | |
| FZLA 5 4295 | 95 | | | 182 | |
| FZLA 5 4573 | 5 | | 45 | 73 | 134 |
| FZLA 5 4580 | | | | 80 | 150 |
| FZLA 5 4585 | | | | 85 | 160 |
| FZLA 5 4590 | | | | 90 | 172 |
| FZLA 5 4595 | | | | 95 | 182 |
| FZLA 5 45100 | | | 100 | 192 | |
| FZLA 5 45110 | | | 110 | 214 | |
| FZLA 5 4870 | | | 48 | 70 | 128 |
| FZLA 5 4880 | | 80 | | 150 | |
| FZLA 5 4890 | | 90 | | 172 | |
| FZLA 5 4895 | 95 | 182 | | | |
| FZLA 5 5070 | 50 | 70 | 128 | | |
| FZLA 5 5080 | | 80 | 150 | | |
| FZLA 5 5090 | | 90 | 172 | | |

| | | | | | |
|---------------|-----|-----|-----|-----|-----|
| FZLA 5 5095 | | | 95 | 182 | |
| FZLA 5 50100 | | | 100 | 192 | |
| FZLA 5 50110 | | | 110 | 214 | |
| FZLA 5 5270 | | | 52 | 70 | 128 |
| FZLA 5 5280 | | | | 80 | 150 |
| FZLA 5 5290 | | | | 90 | 172 |
| FZLA 5 5295 | | | | 95 | 182 |
| FZLA 5 5580 | | | 55 | 80 | 150 |
| FZLA 5 5590 | | | | 90 | 172 |
| FZLA 5 55100 | | | | 100 | 192 |
| FZLA 5 56106 | 56 | 106 | 206 | | |
| FZLA 5 5880 | 58 | 80 | 150 | | |
| FZLA 5 5890 | | 90 | 172 | | |
| FZLA 5 58100 | | 100 | 192 | | |
| FZLA 5 6080 | 60 | 80 | 150 | | |
| FZLA 5 6090 | | 90 | 172 | | |
| FZLA 5 60100 | | 100 | 192 | | |
| FZLA 5 60110 | | 110 | 214 | | |
| FZLA 5 7090 | 70 | 90 | 170 | | |
| FZLA 5 7095 | | 95 | 182 | | |
| FZLA 5 70100 | | 100 | 192 | | |
| FZLA 5 70110 | | 110 | 214 | | |
| FZLA 5 7590 | 75 | 90 | 172 | | |
| FZLA 5 7595 | | 95 | 182 | | |
| FZLA 5 75100 | | 100 | 192 | | |
| FZLA 5 75110 | | 110 | 214 | | |
| FZLA 5 8090 | 80 | 90 | 172 | | |
| FZLA 5 80100 | | 100 | 192 | | |
| FZLA 5 80110 | | 110 | 214 | | |
| FZLA 5 80120 | | 120 | 236 | | |
| FZLA 5 80125 | | 125 | 246 | | |
| FZLA 5 80130 | 130 | 258 | | | |
| FZLA 5 8590 | 85 | 90 | 172 | | |
| FZLA 5 85100 | | 100 | 192 | | |
| FZLA 5 85110 | | 110 | 214 | | |
| FZLA 5 85120 | | 120 | 236 | | |
| FZLA 5 90100 | 90 | 100 | 192 | | |
| FZLA 5 90110 | | 110 | 214 | | |
| FZLA 5 90120 | | 120 | 236 | | |
| FZLA 5 90130 | | 130 | 258 | | |
| FZLA 5 90140 | 95 | 140 | 278 | | |
| FZLA 5 95120 | | 120 | 236 | | |
| FZLA 5 100100 | | 100 | 100 | 192 | |
| FZLA 5 100110 | | | 110 | 214 | |
| FZLA 5 100120 | 120 | | 236 | | |
| FZLA 5 100130 | 130 | | 258 | | |

| | | | | |
|---------------|--|--|-----|-----|
| FZLA 5 100140 | | | 140 | 278 |
| FZLA 5 100150 | | | 150 | 290 |

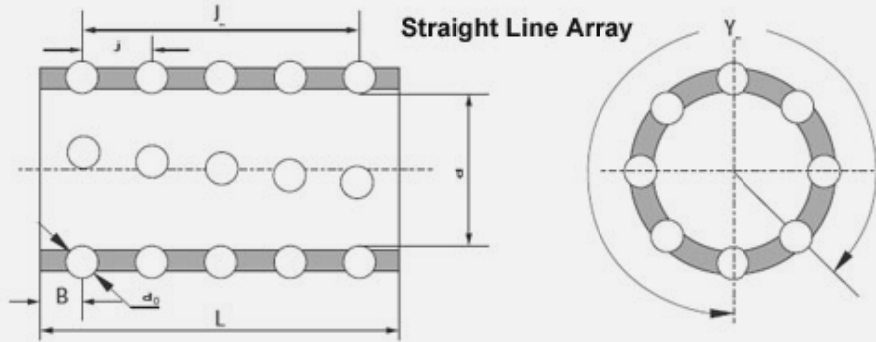
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Zhejiang Province, P.R. China.
Office Add: Room 405, No. 49 Huaishu Street,
Chengdu, 610031 P.R. China.

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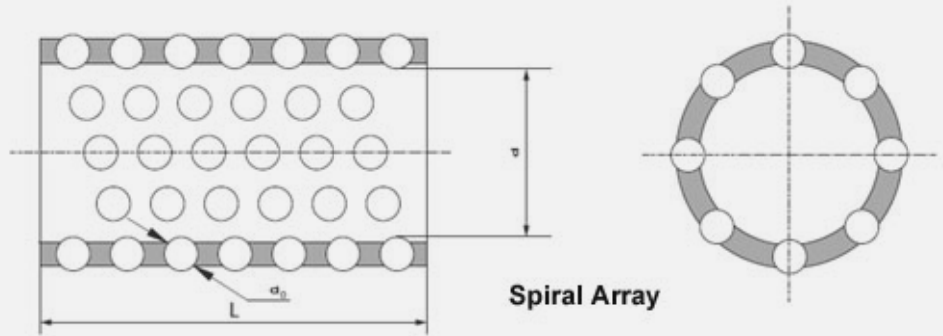
CL1041 FZL-B Ball Retainer, High Precision Roller Guide Bearings



| Product No. | Dimensions (mm) | | | | | | | | |
|--------------|-----------------|----|-----|-----|-----|------|------|------|------|
| | d0 | d | L | Yn | Jn | n | j | B | |
| FZLB 3 1950 | 3 | 19 | 50 | 12 | 8 | 96 | 5.5 | 5.75 | |
| FZLB 3 1960 | | | 60 | | 10 | 120 | | 5.25 | |
| FZLB 3 2050 | | 20 | 50 | | 8 | 96 | | 5.75 | |
| FZLB 3 2060 | | | 60 | | 10 | 120 | | 5.25 | |
| FZLB 3 2250 | | 22 | 50 | 8 | 112 | 5.75 | | | |
| FZLB 3 2260 | | | 60 | 10 | 140 | 5.25 | | | |
| FZLB 3 2360 | | 23 | 60 | 10 | 140 | 5.25 | | | |
| FZLB 3 2475 | | 24 | 75 | 13 | 208 | 5.45 | 4.8 | | |
| FZLB 3 2550 | | 25 | 50 | 8 | 128 | 5.5 | 5.75 | | |
| FZLB 3 2560 | | | 60 | 10 | 160 | | 5.25 | | |
| FZLB 3 2575 | | | 75 | 13 | 208 | 5.45 | 4.8 | | |
| FZLB 3 2775 | | | 27 | 75 | 13 | | 208 | | |
| FZLB 4 2860 | | 4 | 28 | 60 | 14 | 8 | 112 | 6.5 | 7.25 |
| FZLB 4 2875 | | | | 75 | | 11 | 154 | | 5 |
| FZLB 4 3060 | | | 30 | 60 | | 8 | 112 | | 7.25 |
| FZLB 4 3075 | | | | 75 | | 11 | 154 | | 5 |
| FZLB 4 3260 | 32 | | 60 | 8 | 128 | 7.25 | | | |
| FZLB 4 3275 | | | 75 | 11 | 176 | 5 | | | |
| FZLB 4 3290 | 36 | | 90 | 13 | 208 | 6 | | | |
| FZLB 4 3685 | | | 85 | 12 | 192 | 6.75 | | | |
| FZLB 4 3690 | | 90 | 13 | 208 | 6 | | | | |
| FZLB 5 3870 | | 5 | 38 | 70 | 8 | 128 | 8 | 7 | |
| FZLB 5 3890 | 90 | | | 11 | 176 | 7.9 | 5.5 | | |
| FZLB 5 4090 | 40 | | 90 | 11 | 176 | | | | |
| FZLB 5 4590 | 45 | | 90 | 11 | 198 | | | 8 | 7 |
| FZLB 5 45110 | | | 110 | 13 | 234 | | | | |
| FZLB 5 5090 | 50 | | 90 | 11 | 220 | 7.9 | 5.5 | | |
| FZLB 5 50110 | | | 110 | 13 | 260 | 8 | 7 | | |
| FZLB 5 6090 | 60 | | 90 | 11 | 242 | 7.9 | 5.5 | | |
| FZLB 5 60110 | | | 110 | 13 | 286 | 8 | 7 | | |
| FZLB 5 80130 | 80 | | 130 | 28 | 15 | 420 | 8 | 9 | |



CLI042 FZP-A Ball Retainer, High Precision Roller Guide Bearings



| Product No. | Dimensions (mm) | | | | |
|---------------|-----------------|----|-----|-----|----|
| | d0 | d | L | n | |
| FZPA 2.5 1040 | 2.5 | 10 | 40 | 72 | |
| FZPA 3 1843 | 3 | 18 | 43 | 74 | |
| FZPA 3 1850 | | | 50 | 90 | |
| FZPA 3 1855 | | | 55 | 100 | |
| FZPA 3 1860 | | | 60 | 112 | |
| FZPA 3 1864 | | | 64 | 120 | |
| FZPA 3 1876 | | | 76 | 146 | |
| FZPA 3 1943 | | | 19 | 43 | 74 |
| FZPA 3 1950 | | | | 50 | 90 |
| FZPA 3 1955 | | 55 | | 100 | |
| FZPA 3 1960 | | 60 | | 112 | |
| FZPA 3 2043 | | 20 | 43 | 74 | |
| FZPA 3 2050 | | | 50 | 90 | |
| FZPA 3 2055 | | | 55 | 100 | |
| FZPA 3 2060 | | | 60 | 112 | |
| FZPA 3 2064 | | | 64 | 120 | |
| FZPA 3 2075 | | | 75 | 144 | |
| FZPA 3 2143 | | 21 | 43 | 74 | |
| FZPA 3 2150 | | | 50 | 90 | |
| FZPA 3 2155 | | | 55 | 100 | |
| FZPA 3 2160 | | | 60 | 112 | |
| FZPA 3 2165 | 22 | 65 | 122 | | |
| FZPA 3 2250 | | 50 | 90 | | |
| FZPA 3 2255 | | 55 | 100 | | |
| FZPA 3 2260 | | 60 | 112 | | |
| FZPA 3 2264 | | 64 | 120 | | |
| FZPA 3 2270 | | 70 | 132 | | |
| FZPA 3 2360 | | 23 | 60 | 112 | |
| FZPA 3 2460 | | | 60 | 112 | |
| FZPA 3 2465 | | 24 | 65 | 122 | |
| FZPA 3 2470 | | | 70 | 132 | |

| | | | | | |
|-------------|----|----|-----|-----|-----|
| FZPA 3 2475 | 4 | 25 | 75 | 144 | |
| FZPA 3 2480 | | | 80 | 154 | |
| FZPA 3 2548 | | | 48 | 86 | |
| FZPA 3 2550 | | | 50 | 90 | |
| FZPA 3 2555 | | | 55 | 100 | |
| FZPA 3 2560 | | | 60 | 112 | |
| FZPA 3 2564 | | | 64 | 120 | |
| FZPA 3 2575 | | | 75 | 144 | |
| FZPA 3 2576 | | | 76 | 146 | |
| FZPA 3 2580 | | | 80 | 154 | |
| FZPA 3 2585 | | | 85 | 164 | |
| FZPA 3 2660 | | | 60 | 112 | |
| FZPA 3 2665 | | | 65 | 122 | |
| FZPA 3 2670 | | | 70 | 132 | |
| FZPA 3 2680 | | | 80 | 154 | |
| FZPA 3 2685 | | 85 | 164 | | |
| FZPA 3 2775 | | 27 | 75 | 144 | |
| FZPA 4 2860 | | 4 | 28 | 60 | 108 |
| FZPA 4 2864 | | | | 64 | 118 |
| FZPA 4 2875 | | | | 75 | 142 |
| FZPA 4 2876 | | | | 76 | 144 |
| FZPA 4 2884 | | | | 84 | 160 |
| FZPA 4 2890 | | | | 90 | 174 |
| FZPA 4 3053 | | | 30 | 53 | 94 |
| FZPA 4 3060 | | | | 60 | 108 |
| FZPA 4 3065 | | | | 65 | 120 |
| FZPA 4 3070 | | | | 70 | 130 |
| FZPA 4 3075 | 75 | | | 140 | |
| FZPA 4 3080 | 80 | | | 152 | |
| FZPA 4 3085 | 85 | | 162 | | |
| FZPA 4 3140 | 31 | | 40 | 66 | |
| FZPA 4 3150 | | | 50 | 88 | |
| FZPA 4 3160 | | | 60 | 108 | |
| FZPA 4 3175 | | | 75 | 142 | |
| FZPA 4 3185 | | | 85 | 162 | |
| FZPA 4 3250 | | 4 | 32 | 50 | 88 |
| FZPA 4 3253 | 53 | | | 94 | |
| FZPA 4 3260 | 60 | | | 108 | |
| FZPA 4 3270 | 70 | | | 130 | |
| FZPA 4 3275 | 75 | | | 140 | |
| FZPA 4 3276 | 76 | | | 142 | |
| FZPA 4 3284 | 84 | | | 160 | |
| FZPA 4 3285 | 85 | | 162 | | |
| FZPA 4 3290 | 90 | | 174 | | |
| FZPA 4 3295 | 95 | | 184 | | |
| FZPA 4 3470 | 34 | 70 | 130 | | |

| | | | | | |
|--------------|----|----|-----|-----|-----|
| FZPA 4 3475 | | | 75 | 142 | |
| FZPA 4 3480 | | | 80 | 152 | |
| FZPA 4 3490 | | | 90 | 174 | |
| FZPA 4 3495 | | | 95 | 184 | |
| FZPA 4 3570 | | | 35 | 70 | 130 |
| FZPA 4 3576 | | | | 76 | 144 |
| FZPA 4 3584 | | | | 84 | 160 |
| FZPA 4 3590 | | | | 90 | 174 |
| FZPA 4 3595 | | | | 95 | 184 |
| FZPA 4 3680 | | | 36 | 80 | 152 |
| FZPA 4 3685 | | | | 85 | 162 |
| FZPA 4 3690 | | | | 90 | 174 |
| FZPA 5 3795 | 5 | 37 | 95 | 182 | |
| FZPA 5 3868 | | 38 | 68 | 124 | |
| FZPA 5 3870 | | | 70 | 128 | |
| FZPA 5 3875 | | | 75 | 138 | |
| FZPA 5 3880 | | | 80 | 150 | |
| FZPA 5 3885 | | | 85 | 160 | |
| FZPA 5 3890 | | | 90 | 172 | |
| FZPA 5 3895 | | | 95 | 182 | |
| FZPA 5 4068 | | | 40 | 68 | 124 |
| FZPA 5 4075 | | 75 | | 138 | |
| FZPA 5 4080 | | 80 | | 150 | |
| FZPA 5 4085 | | 85 | | 160 | |
| FZPA 5 4090 | | 90 | | 172 | |
| FZPA 5 4095 | | 95 | | 182 | |
| FZPA 5 4270 | | 42 | | 70 | 128 |
| FZPA 5 4275 | | | | 75 | 138 |
| FZPA 5 4280 | | | 80 | 150 | |
| FZPA 5 4285 | | | 85 | 160 | |
| FZPA 5 4290 | | | 90 | 172 | |
| FZPA 5 4295 | | | 95 | 182 | |
| FZPA 5 4573 | | 5 | 45 | 73 | 134 |
| FZPA 5 4580 | | | | 80 | 150 |
| FZPA 5 4585 | | | | 85 | 160 |
| FZPA 5 4590 | | | | 90 | 172 |
| FZPA 5 4595 | | | | 95 | 182 |
| FZPA 5 45100 | | | | 100 | 192 |
| FZPA 5 45110 | | | 110 | 214 | |
| FZPA 5 4870 | | | 48 | 70 | 128 |
| FZPA 5 4880 | 80 | | | 150 | |
| FZPA 5 4890 | 90 | | | 172 | |
| FZPA 5 4895 | 95 | | | 182 | |
| FZPA 5 5070 | 50 | | 70 | 128 | |
| FZPA 5 5080 | | 80 | 150 | | |
| FZPA 5 5090 | | 90 | 172 | | |

| | | | | |
|---------------|--|-----|-----|-----|
| FZPA 5 5095 | | | 95 | 182 |
| FZPA 5 50100 | | | 100 | 192 |
| FZPA 5 50110 | | | 110 | 214 |
| FZPA 5 5270 | | | 70 | 128 |
| FZPA 5 5280 | | 52 | 80 | 150 |
| FZPA 5 5290 | | | 90 | 172 |
| FZPA 5 5295 | | | 95 | 182 |
| FZPA 5 5580 | | | 80 | 150 |
| FZPA 5 5590 | | 55 | 90 | 172 |
| FZPA 5 55100 | | | 100 | 192 |
| FZPA 5 56106 | | 56 | 106 | 206 |
| FZPA 5 5880 | | | 80 | 150 |
| FZPA 5 5890 | | 58 | 90 | 172 |
| FZPA 5 58100 | | | 100 | 192 |
| FZPA 5 6080 | | | 80 | 150 |
| FZPA 5 6090 | | | 90 | 172 |
| FZPA 5 60100 | | 60 | 100 | 192 |
| FZPA 5 60110 | | | 110 | 214 |
| FZPA 5 7090 | | | 90 | 170 |
| FZPA 5 7095 | | | 95 | 182 |
| FZPA 5 70100 | | 70 | 100 | 192 |
| FZPA 5 70110 | | | 110 | 214 |
| FZPA 5 7590 | | | 90 | 172 |
| FZPA 5 7595 | | | 95 | 182 |
| FZPA 5 75100 | | 75 | 100 | 192 |
| FZPA 5 75110 | | | 110 | 214 |
| FZPA 5 8090 | | | 90 | 172 |
| FZPA 5 80100 | | | 100 | 192 |
| FZPA 5 80110 | | | 110 | 214 |
| FZPA 5 80120 | | 80 | 120 | 236 |
| FZPA 5 80125 | | | 125 | 246 |
| FZPA 5 80130 | | | 130 | 258 |
| FZPA 5 8590 | | | 90 | 172 |
| FZPA 5 85100 | | | 100 | 192 |
| FZPA 5 85110 | | 85 | 110 | 214 |
| FZPA 5 85120 | | | 120 | 236 |
| FZPA 5 90100 | | | 100 | 192 |
| FZPA 5 90110 | | | 110 | 214 |
| FZPA 5 90120 | | 90 | 120 | 236 |
| FZPA 5 90130 | | | 130 | 258 |
| FZPA 5 90140 | | | 140 | 278 |
| FZPA 5 95120 | | 95 | 120 | 236 |
| FZPA 5 100100 | | | 100 | 192 |
| FZPA 5 100110 | | | 110 | 214 |
| FZPA 5 100120 | | 100 | 120 | 236 |
| FZPA 5 100130 | | | 130 | 258 |
| | | | | |

| | | | | |
|---------------|--|--|-----|-----|
| FZPA 5 100140 | | | 140 | 278 |
| FZPA 5 100150 | | | 150 | 290 |

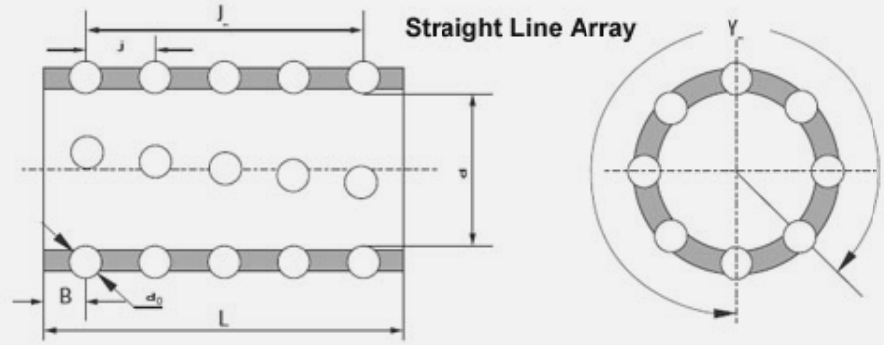
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CL1042 FZP-B Ball Retainer, High Precision Roller Guide Bearings



| Product No. | Dimensions (mm) | | | | | | | | |
|--------------|-----------------|-----|----|----|-----|------|------|------|------|
| | d0 | d | L | Yn | Jn | n | j | B | |
| FZPB 3 1950 | 3 | 19 | 50 | 12 | 8 | 96 | 5.5 | 5.75 | |
| FZPB 3 1960 | | | 60 | | 10 | 120 | | 5.25 | |
| FZPB 3 2050 | | 20 | 50 | | 8 | 96 | | 5.75 | |
| FZPB 3 2060 | | | 60 | | 10 | 120 | | 5.25 | |
| FZPB 3 2250 | | 22 | 50 | 8 | 112 | 5.75 | | | |
| FZPB 3 2260 | | | 60 | 10 | 140 | 5.25 | | | |
| FZPB 3 2360 | | 23 | 60 | 10 | 140 | 5.25 | | | |
| FZPB 3 2475 | | 24 | 75 | 13 | 208 | 5.45 | 4.8 | | |
| FZPB 3 2550 | | 25 | 50 | 8 | 128 | 5.5 | 5.75 | | |
| FZPB 3 2560 | | | 60 | 10 | 160 | | 5.25 | | |
| FZPB 3 2575 | | | 75 | 13 | 208 | 5.45 | 4.8 | | |
| FZPB 3 2775 | | | 27 | 75 | 13 | | 208 | | |
| FZPB 4 2860 | | 4 | 28 | 60 | 14 | 8 | 112 | 6.5 | 7.25 |
| FZPB 4 2875 | | | | 75 | | 11 | 154 | | 5 |
| FZPB 4 3060 | | | 30 | 60 | | 8 | 112 | | 7.25 |
| FZPB 4 3075 | | | | 75 | | 11 | 154 | | 5 |
| FZPB 4 3260 | 32 | | 60 | 8 | 128 | 7.25 | | | |
| FZPB 4 3275 | | | 75 | 11 | 176 | 5 | | | |
| FZPB 4 3290 | 36 | | 90 | 13 | 208 | 6 | | | |
| FZPB 4 3685 | | | 85 | 12 | 192 | 6.75 | | | |
| FZPB 4 3690 | | | 90 | 13 | 208 | 6 | | | |
| FZPB 5 3870 | | | 5 | 38 | 70 | 8 | 128 | 8 | 7 |
| FZPB 5 3890 | 90 | 11 | | | 176 | 7.9 | 5.5 | | |
| FZPB 5 4090 | 40 | 90 | | 11 | 176 | | | | |
| FZPB 5 4590 | 45 | 90 | | 11 | 198 | | | 8 | 7 |
| FZPB 5 45110 | | 110 | | 13 | 234 | | | | |
| FZPB 5 5090 | 50 | 90 | | 11 | 220 | 7.9 | 5.5 | | |
| FZPB 5 50110 | | 110 | | 13 | 260 | 8 | 7 | | |
| FZPB 5 6090 | 60 | 90 | | 11 | 242 | 7.9 | 5.5 | | |
| FZPB 5 60110 | | 110 | | 13 | 286 | 8 | 7 | | |
| FZPB 5 80130 | 80 | 130 | | 28 | 15 | 420 | 8 | 9 | |

