

## Stainless Steel Miniature Thrust Bearings



| Part Number | Washer Material      | ID     | OD    | Width  | Washers Type    | Dynamic Thrust Load | Static Thrust Load | Max Speed (X1000 rpm) | Bearing Type | Cage Material | Metrology System | RoHS   | REACH      |
|-------------|----------------------|--------|-------|--------|-----------------|---------------------|--------------------|-----------------------|--------------|---------------|------------------|--------|------------|
| SF4-9M      | 440C Stainless Steel | 4 mm   | 9 mm  | 4 mm   | grooved raceway | 720 N               | 468 N              | 7.2                   | Metric       | Ball          | Standard         | Thrust | Single Row |
| F4-9M       | 52100 Chrome Steel   | 4 mm   | 9 mm  | 4 mm   | grooved raceway | 800 N               | 520 N              | 8                     | Metric       | Ball          | Standard         | Thrust | Single Row |
| SF4-9       | 440C Stainless Steel | 4 mm   | 9 mm  | 4 mm   | flat raceway    | 720 N               | 468 N              | 7.2                   | Metric       | Ball          | Standard         | Thrust | Single Row |
| F4-9        | 52100 Chrome Steel   | 4 mm   | 9 mm  | 4 mm   | flat raceway    | 800 N               | 520 N              | 8                     | Metric       | Ball          | Standard         | Thrust | Single Row |
| SF4-10M     | 440C Stainless Steel | 4 mm   | 10 mm | 4 mm   | grooved raceway | 592 N               | 522 N              | 5.4                   | Metric       | Ball          | Standard         | Thrust | Single Row |
| F4-10M      | 52100 Chrome Steel   | 4 mm   | 10 mm | 4 mm   | grooved raceway | 658 N               | 580 N              | 6                     | Metric       | Ball          | Standard         | Thrust | Single Row |
| SF4-10      | 440C Stainless Steel | 4 mm   | 10 mm | 4 mm   | flat raceway    | 592 N               | 522 N              | 5.4                   | Metric       | Ball          | Standard         | Thrust | Single Row |
| F4-10       | 52100 Chrome Steel   | 4 mm   | 10 mm | 4 mm   | flat raceway    | 658 N               | 580 N              | 6                     | Metric       | Ball          | Standard         | Thrust | Single Row |
| SF3-8M      | 440C Stainless Steel | 3 mm   | 8 mm  | 3.5 mm | grooved raceway | 540 N               | 432 N              | 9.9                   | Metric       | Ball          | Standard         | Thrust | Single Row |
| F3-8M       | 52100 Chrome Steel   | 3 mm   | 8 mm  | 3.5 mm | grooved raceway | 600 N               | 480 N              | 11                    | Metric       | Ball          | Standard         | Thrust | Single Row |
| SF3-8       | 440C Stainless Steel | 3 mm   | 8 mm  | 3.5 mm | flat raceway    | 540 N               | 432 N              | 9.9                   | Metric       | Ball          | Standard         | Thrust | Single Row |
| F3-8        | 52100 Chrome Steel   | 3 mm   | 8 mm  | 3.5 mm | flat raceway    | 600 N               | 480 N              | 11                    | Metric       | Ball          | Standard         | Thrust | Single Row |
| SF2X-7      | 440C Stainless Steel | 2.5 mm | 7 mm  | 3.5 mm | flat raceway    | 140 N               | 105 N              | 13.5                  | Metric       | Ball          | Standard         | Thrust | Single Row |

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|         |                      |        |       |        |                 |        |        |      |        |      |          |        |            |
|---------|----------------------|--------|-------|--------|-----------------|--------|--------|------|--------|------|----------|--------|------------|
| F2X-7   | 52100 Chrome Steel   | 2.5 mm | 7 mm  | 3.5 mm | flat raceway    | 156 N  | 117 N  | 15   | Metric | Ball | Standard | Thrust | Single Row |
| SF2-6   | 440C Stainless Steel | 2 mm   | 6 mm  | 3 mm   | flat raceway    | 105 N  | 75 N   | 14.4 | Metric | Ball | Standard | Thrust | Single Row |
| F2-6    | 52100 Chrome Steel   | 2 mm   | 6 mm  | 3 mm   | flat raceway    | 117 N  | 83 N   | 16   | Metric | Ball | Standard | Thrust | Single Row |
| F5-10M  | 52100 Chrome Steel   | 5 mm   | 10 mm | 4 mm   | grooved raceway | 950 N  | 830 N  | 5.1  | Metric | Ball | Standard | Thrust | Single Row |
| SF5-10M | 440C Stainless Steel | 5 mm   | 10 mm | 4 mm   | grooved raceway | 855 N  | 747 N  | 4.59 | Metric | Ball | Standard | Thrust | Single Row |
| F5-11   | 52100 Chrome Steel   | 5 mm   | 11 mm | 4.5 mm | flat raceway    | 988 N  | 880 N  | 5    | Metric | Ball | Standard | Thrust | Single Row |
| SF5-11  | 440C Stainless Steel | 5 mm   | 11 mm | 4.5 mm | flat raceway    | 889 N  | 792 N  | 4.5  | Metric | Ball | Standard | Thrust | Single Row |
| F5-11M  | 52100 Chrome Steel   | 5 mm   | 11 mm | 4.5 mm | grooved raceway | 988 N  | 880 N  | 5    | Metric | Ball | Standard | Thrust | Single Row |
| SF5-11M | 440C Stainless Steel | 5 mm   | 11 mm | 4.5 mm | grooved raceway | 889 N  | 792 N  | 4.5  | Metric | Ball | Standard | Thrust | Single Row |
| F5-12M  | 52100 Chrome Steel   | 5 mm   | 12 mm | 4 mm   | grooved raceway | 988 N  | 880 N  | 5    | Metric | Ball | Standard | Thrust | Single Row |
| SF5-12M | 440C Stainless Steel | 5 mm   | 12 mm | 4 mm   | grooved raceway | 889 N  | 792 N  | 4.5  | Metric | Ball | Standard | Thrust | Single Row |
| F6-12   | 52100 Chrome Steel   | 6 mm   | 12 mm | 4.5 mm | flat raceway    | 1600 N | 1255 N | 5    | Metric | Ball | Standard | Thrust | Single Row |
| SF6-12  | 440C Stainless Steel | 6 mm   | 12 mm | 4.5 mm | flat raceway    | 1440 N | 1130 N | 4.5  | Metric | Ball | Standard | Thrust | Single Row |
| F6-12M  | 52100 Chrome Steel   | 6 mm   | 12 mm | 4.5 mm | grooved raceway | 1600 N | 1255 N | 5    | Metric | Ball | Standard | Thrust | Single Row |
| SF6-12M | 440C Stainless Steel | 6 mm   | 12 mm | 4.5 mm | grooved raceway | 1440 N | 1130 N | 4.5  | Metric | Ball | Standard | Thrust | Single Row |
| F6-13M  | 52100 Chrome Steel   | 6 mm   | 13 mm | 5 mm   | grooved raceway | 1600 N | 1255 N | 5    | Metric | Ball | Standard | Thrust | Single Row |
| SF6-13M | 440C Stainless Steel | 6 mm   | 13 mm | 5 mm   | grooved raceway | 1440 N | 1130 N | 4.5  | Metric | Ball | Standard | Thrust | Single Row |