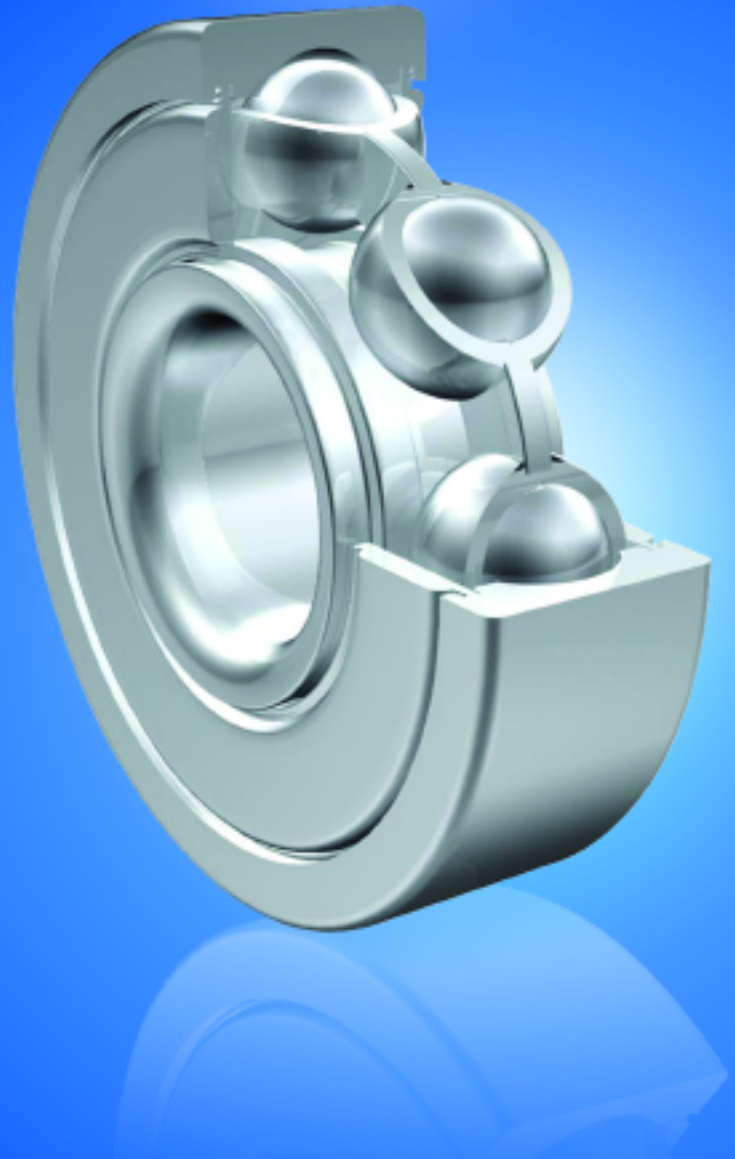
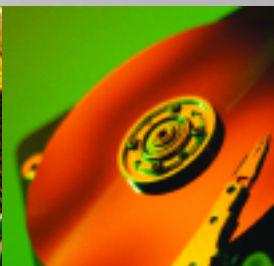
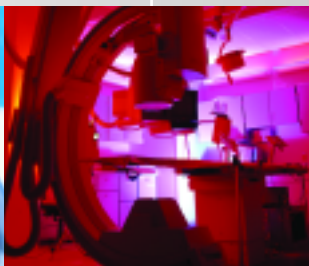


ZON™

Bearings for your future



Zöllige Miniaturrillenkugellager
Miniature Inch Series





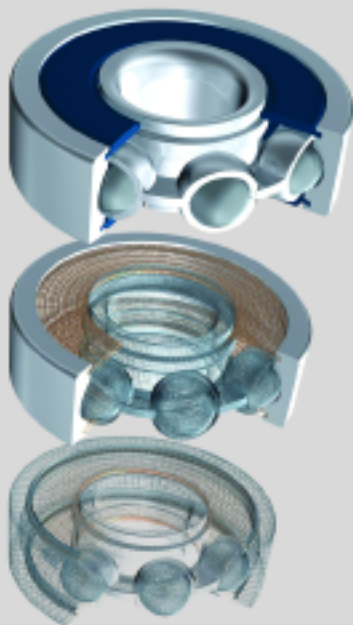
Bearings for your future

Zen Ball Bearings are manufactured to the highest quality for standard and non-standard applications. Our technical department can modify any non-standard bearings to your specific requirements, regardless of quantity.

Apart from our extensive miniature ball bearing range of more than 1000 different types, ranging from 1-10 mm bore (Including inch dimensions), our range also includes Thin section, Three part thrust, Popular metric and any kind of non standard bearing. We are able to design bearings according to your requirements using new materials like ceramic or special steels for applications in Industry, Medicine, Chemistry and Food Processing.

Our technical department can modify any non-standard bearings to your specific requirements, even for small quantities.

For any items not listed in our catalogue, please contact our experienced sales team.



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Material

S = Rostfreier Stahl / [Stainless Steel](#)
 Kein Präfix / [No Prefix](#) = Chromstahl / [Chrome Steel](#)

Referenz / Bearing type

MF = Metrisch mit Flansch / [Metric with Flange](#)
 MR = Metrisch / [Metric](#)
 R = Zöllig / [Inch](#)
 FR = Zöllig mit Flansch / [Inch with Flange](#)
 F = Metrisch mit Flansch / [Metric with Flange](#)
 Kein Präfix / [No Prefix](#) = Metrisch / [Metric](#)

Typenbezeichnung / Bearing Part Number**Dichtscheiben / Shields**

2Z = Metaldichtscheiben / [Metal Shields](#)
 2RS = Gummidichtscheiben / [Rubber Seals](#)
 2TS = Teflondichtscheiben / [Teflon Seals](#)
 2TZ = Metall / Teflondichtungsscheiben / [Metal / Teflon Shields](#)

Kein Suffix / [No Suffix](#) = Offen / [Open](#)

S	FR	144	-2Z	. . . Abm./Dimen. . . .
	FR	85		”
		635	-2RS	”
S		682X		”

Allgemeine Merkmale / General Details

Material	Komponenten Components		Merkmale Details	Anwendungsbereiche Application
	Ringe Rings	Kugeln Balls		
Kugellagerchromstahl Ball Bearing Chrome Steel 100 Cr6 (Nr. 1.3505)	X	X	Gute Verschleißfestigkeit Hard wearing Schlag- und Korrosionsbeständigkeit Good shock and corrosive resistance	Standard Standard
Rostfreier Stahl Stainless Steel AISI 440 C (Nr. 1.4125) †	X	X	Sehr gute Korrosionsbeständigkeit Very good corrosion resistance	Nahrungsmittel, Pharma, Schiffsbau und andere korrosive Umgebungen Food industry, pharmaceutical industry, ship building and other corrosive surroundings

†Die statische und dynamische Belastung von AISI 440 C-Lagern liegt bei ca. 75-80% von 100 Cr6-Lagern.

†The static and dynamic load rating of AISI 440 C - ball bearings is approximately 75-80% of the 100 Cr6 - ball bearings.

Technische Merkmale / Technical Details

Material	Härte Hardness	Max. Temp. Max. Temp.	C	Si	Mn	P	S	Cr	Mo
100 Cr6 (Nr. 1.3505)	60-64HRC	max. 150°C	0,5~1,10	0,15~0,35	≤0,5	≤0,025	≤0,025	1,3~1,6	≤0,08
AISI 440 C (Nr. 1.4125)	≥58HRC	Max. 230°C	0,95~1,2	≤1,1	≤1,0	≤0,04	≤0,03	16,0~18,0	≤0,75

Toleranzklassen / Tolerance Class

Toleranzklassen Tolerance class	Äquivalenzen / Equivalences	
	ISO	AFBMA
DIN P0	Klasse class 0	ABEC 1
DIN P6	Klasse class 6	ABEC 3
DIN P5	Klasse class 5	ABEC 5

Tolerance of inner ring (ISO)

d(mm)		Δdmp					Δds		Vdp					Vdmp				Unit μm				
		P0		P6	P5	P4	P4		P0		P6		P5		P4		P0			P6	P5	P4
							Diameter series	Diameter series	Diameter series	Diameter series	Diameter series	Diameter series	Diameter series	Diameter series								
Over	incl.	Upper	Lower	Lower	Lower	Lower	Upper	Lower	Max.	Max.	Max.	Max.	Max.	Max.	Max.	Max.	Max.	Max.	Max.			
0.6(1)	2.5	0	-8	-7	-5	-4	0	-4	10	8	6	9	7	5	5	4	4	3	6	5	3	2
2.5	10	0	-8	-7	-5	-4	0	-4	10	8	6	9	7	5	5	4	4	3	6	5	3	2
10	18	0	-8	-7	-5	-4	0	-4	10	8	6	9	7	5	5	4	4	3	6	5	3	2
18	30	0	-10	-8	-6	-5	0	-5	13	10	8	10	8	6	6	5	5	4	8	6	3	2.5
30	50	0	-12	-10	-8	-6	0	-6	15	12	9	13	10	8	8	6	6	5	9	8	4	3

Note 1: The upper value of the bore diameter in this table is not applicable when the distance from the bearing ring face is less than 1.2 times the chamferdimension.
 Note 2: According to the revision of ANSI/ABMA Std.20-1996, the classes ABEC1-ABEC3-ABEC5-ABEC7 are equivalent to SS0-CLASS6-CLASS5-CLASS4.

Tolerance of outer ring (ISO)

D(mm)		ΔDmp					ΔDs		VDp					VDmp				Unit μm						
		P0		P6	P5	P4	P0		P6		P5		P4		P0	P6	P5			P4				
							Open	Seal Shield	Open	Seal Shield	Open	Open	Diameter series	Diameter series							Diameter series	Diameter series	Diameter series	
Over	incl.	Upper	Lower	Lower	Lower	Upper	Lower	Max.	Max.	Max.	Max.	Max.	Max.	Max.	Max.	Max.	Max.	Max.						
2.5(1)	6	0	-8	-7	-5	-4	0	-4	10	8	6	10	9	7	5	9	5	4	4	3	6	5	3	2
6	18	0	-8	-7	-5	-4	0	-4	10	8	6	10	9	7	5	9	5	4	4	3	6	5	3	2
18	30	0	-9	-8	-6	-5	0	-5	12	9	7	12	10	8	6	10	6	5	5	4	7	6	3	2.5
30	50	0	-11	-9	-7	-6	0	-6	14	11	8	16	11	9	7	13	7	5	6	5	8	7	4	3
50	80	0	-13	-11	-9	-7	0	-7	16	13	10	20	14	11	8	16	9	7	7	5	10	8	5	3.5

Note(1) : Size 2.5mm is included in this classification.
 Note(2) : The outer ring width variations for CLASS0 and CLASS6 are the same as for the inner ring of the same bearing size.

Radial internal clearance of standard radial ball bearings

*NOMINAL BORE DIAMETER d(mm)		CLEARANCE										Unit μm
		C2		CN(C0)		C3		C4		C5		
OVER	INCL.	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	
10(ONLY)		0	7	2	13	8	23	14	29	20	37	
10	18	0	9	3	18	11	25	18	33	25	45	
18	24	0	10	5	20	13	28	20	36	28	48	
24	30	1	11	5	20	13	28	23	41	30	53	
30	40	1	11	6	20	15	33	28	46	40	64	
40	50	1	11	6	23	18	36	30	51	45	73	

d(mm)		ΔBs(ΔCs) ²⁾				VBs(VCs) ²⁾				Kia				Sd		Sia		Unit μm			
		Single bearing		Inner/outer ring		Inner ring		P0	P6	P5	P4	P0	P6	P5	P4	P5	P4			P5	P4
				P0	P6	P5	P4														
Upper	Lower	Lower	Max.	Max.	Max.	Max.	Max.	Max.	Max.	Max.	Max.	Max.	Max.	Max.	Max.	Max.	Max.	Max.	Over	Incl.	
0	-40	-40	12	12	5	2.5	10	5	4	2.5	7	3	7	3	7	3	7	3	0.6(1)	2.5	
0	-120	-40	15	15	5	2.5	10	6	4	2.5	7	3	7	3	7	3	7	3	2.5	10	
0	-120	-80	20	20	5	2.5	10	7	4	2.5	7	3	7	3	7	3	7	3	10	18	
0	-120	-120	20	20	5	2.5	13	8	4	3	8	4	8	4	8	4	8	4	18	30	
0	-120	-120	20	20	5	3	15	10	5	4	8	4	8	4	8	4	8	4	30	50	

Note(1) : 0.6mm is included in this classification.
 Note(2) : The inner ring width variation is the same for the outer ring of the same bearing size, CLASS5 and CLASS4 referring to outer ring only.

D(mm)		Kca				SD		Sea		VCs ²⁾		D(mm)		ΔDis				ΔCis				Unit μm	
		P0		P6	P5	P4	P5	P4	P5	P4	P5			P4	Flanged type								
															P0	P6	P5	P4	P0	P6	P5		
Max.	Max.	Max.	Max.	Max.	Max.	Max.	Max.	Max.	Max.	Max.	Max.	Over	Incl.	Upper	Lower	Upper	Lower	Upper	Lower	Upper	Lower		
15	8	5	3	8	4	8	5	5	2.5	2.5(1)	6	+125	-50	0	-25	0	-50	0	-50	0	-50		
15	8	5	3	8	4	8	5	5	2.5	6	18	+125	-50	0	-25	0	-50	0	-50	0	-50		
15	9	6	4	8	4	8	5	5	2.5	18	30	+125	-50	0	-25	0	-50	0	-50	0	-50		
20	10	7	5	8	4	8	5	5	2.5	30	50	+125	-50	0	-25	0	-50	0	-50	0	-50		
25	13	8	5	8	4	10	5	6	3	50	80	+125	-50	0	-25	0	-50	0	-50	0	-50		

Note 1 : The lower value of the outside diameter in this table is not applicable when the distance from the bearing ring face is less than 1.2 times the chamfer dimension.
 Note 2 : According to the revision of AFBMA Std20-1978, the classes ABEC1 ABEC3 ABEC5 ABEC7 are equivalent to CLASS0 • CLASS6 • CLASS5 • CLASS4

- d : Nominal bore diameter
- Δdmp : Single plane mean bore diameter deviation
- Δds : Deviation of a single bore diameter
- Vdp : Bore diameter variation in a single radial plane
- Vdmp : Mean bore diameter variation
- ΔBs (ΔCs) : Deviation of a single inner and outer ring width from the nominal dimension
- VBs (VCs) : Variation of a inner and outer ring width
- Kia : Radial runout of assembled bearing inner ring
- Sd : Face runout with bore
- Sia : Assembled bearing inner ring face runout with raceway
- D : Nominal outside diameter
- ΔDmp : Single plane mean outside diameter deviation
- ΔDs : Deviation of a single outside diameter
- VDp : Outside diameter variation in a single radial plane
- VDmp : Mean outside diameter variation
- Kea : Radial runout of assembled bearing outer ring
- SD : Variation of a outside surface generatrix inclination with face
- Sea : Assembled bearing outer ring face runout with raceway
- VCs : Variation of the outer ring width
- ΔDis : Flange outside diameter deviation
- ΔCis : Flange width deviation






Wichtig / Important

*** Max. Drehzahlen:**
 Die im Katalog angegebenen Werte sind ungefähre Werte. Abhängig von der Toleranzklasse, Werkstoff, Einbautoleranzen, Befettung, Käfigtype, Umgebungstemperatur, etc., können unterschiedliche Werte realisiert werden. Die maximalen Drehzahlen für RS- und TS-gedichtete Lager sind deutlich geringer. Bitte erfragen Sie die Werte in besonderen Fällen.

*** Limiting Speeds :**
 The values shown in the catalogue are approximated values. Depending on the tolerance class, material, mounting tolerances, lubrication, cage, surrounding temperature, etc., different values can be obtained. The limiting speeds for RS- and TS-shielded bearings are significant lower. Please contact Engineering for special cases.







*** Tragzahlen:**
 Die Tragzahlen und Drehzahlen beziehen sich auf 100Cr6 (Chromstahl), falls nicht anders spezifiziert. Die Werte für rostfreien Stahl sind ungefähr 20% niedriger.

*** Load Ratings:**
 Load ratings and Limiting Speeds are calculated based on material 100Cr6 (Chrome Steel), if not stated different. The rates are approximately 20% lower for stainless steel.

	Design Design	Spezifikation Specification	Vorteile/Nachteile Advantage/Disadvantage
	- Keine Dichtung No seals	Offen Open	Kein Reibungswiderstand No friction Einfache Nachschmierung Easy to relube Starke Verschmutzung No protection against contamination
	2Z Metalldichtscheiben Metal shields	Nichtschleifende Dichtung Non contact seals	Kein Reibungswiderstand No friction Gute Abdichtung gegen Schmutz Good protection against contamination
	2RS Gummidichtscheiben Rubber seals	Schleifende Dichtung aus Kunststoff Contact seals made of synthetic rubber	Erhöhter Reibungswiderstand Higher friction Ausgezeichnete Abdichtung gegen Schmutz Very good protection against contamination
	2TS Teflondichtscheiben Teflon seals	Schleifende Dichtung aus Teflon Contact seals made of teflon	Geringer Reibungswiderstand Low friction Ausgezeichnete Abdichtung gegen Schmutz Very good protection against contamination Gute chemische Eigenschaften Good chemical characteristics
	2TZ Metalldichtscheibe mit Teflondichtscheibe Teflon seals with metal shields	Schleifende Dichtung aus Teflon Contact seals made of teflon	Geringer Reibungswiderstand Low friction Ausgezeichnete Abdichtung gegen Schmutz Very good protection against contamination Gute chemische Eigenschaften Good chemical characteristics

Schmierung / Lubrication

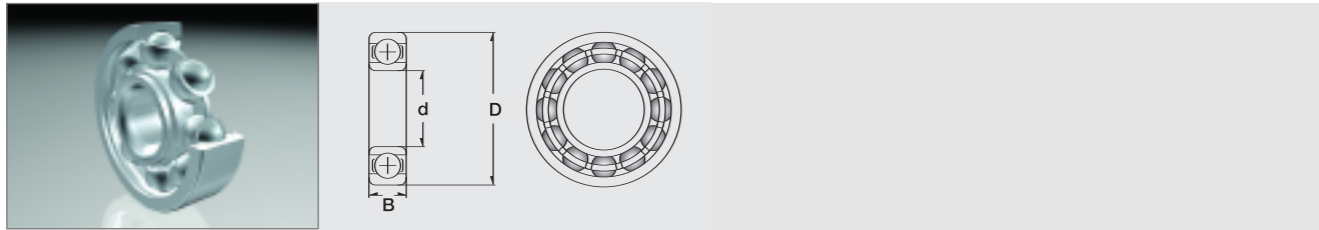
Schmiermittel Lubricant	Anmerkung Remarks	Vorteile/Anwendung Advantages/Applications
Kein Schmiermittel No lubricant	Nur bei Edelstahlagern oder mit Verwendung von Korrosionsschutz Only with stainless steel bearings or with the use of corrosion preventive fluid	Wenn Schmierung vom Kunden gestellt wird When the lubrication is provided by the customer
Fett Grease	Standardfüllung 30-40% Standard filling 30-40%	Lebenslange Schmierung möglich Life-time lubrication is possible Guter Korrosionsschutz Good protection against corrosion Differenzierte Anwendungsmöglichkeiten je nach Fett According to the application a variety of greases can be used
Öl Oil	-	Geringer Reibungswiderstand Low friction Hohe Drehzahlen High revolution

	Referenz Reference	Käfigtype Cage type	Anmerkung Remarks
	FC	Vollkugelig / ohne Käfig Full Complement / No Cage	Geringe Drehzahlen, hohe Belastungswerte Low revolution high load rating
	W	Kronenkäfig Crown Cage	Geringes Gewicht, geringe Reibung Light weight, smooth, low friction
	J	Lappenkäfig Ribbon Cage	Standardkäfig, hohe Lebensdauer Standard cage, good durability
	T9H	Kronenkäfig aus glasfaserverstärktem Kunststoff Glass Fibre Reinforced Cage	Geringes Gewicht, hohe Lebensdauer, hohe Drehzahlen Light weight, strong, high speed
		Massivkäfig aus Kunststoff Phenolic Cage	Geringes Gewicht, hohe Lebensdauer, hohe Drehzahlen Light weight, strong, high speed
	M	Messingkäfig Brass Cage	Geringe Reibung, hohe Lebensdauer, Low friction, good durability

Wichtig / Important

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The author reserves the right not to be responsible for the topicality, correctness, completeness or quality of the information provided. Liability claims regarding damage caused by the use of any information provided, including any kind of information which is incomplete or incorrect, will therefore be rejected.



standard or flanged	Dimension (mm)			Dimension (inch)			Dimension (inch)		
	d	D	B	d	D	B	d	D	B
standard	1.984	6.350	2.380	0.0781	0.2500	0.0937	5/64	1/4	3/32
flanged	1.984	6.350	2.380	0.0781	0.2500	0.0937	5/64	1/4	3/32
standard	1.984	6.350	3.571	0.0781	0.2500	0.1406	5/64	1/4	9/64
flanged	1.984	6.350	3.571	0.0781	0.2500	0.1406	5/64	1/4	9/64
standard	2.380	4.763	1.588	0.0937	0.1875	0.0625	3/32	3/16	1/16
flanged	2.380	4.763	1.588	0.0937	0.1875	0.0625	3/32	3/16	1/16
standard	2.380	4.763	2.380	0.0937	0.1875	0.0937	3/32	3/16	3/32
flanged	2.380	4.763	2.380	0.0937	0.1875	0.0937	3/32	3/16	3/32
standard	2.380	7.938	2.779	0.0937	0.3125	0.1094	3/32	5/16	7/64
flanged	2.380	7.938	2.779	0.0937	0.3125	0.1094	3/32	5/16	7/64
standard	2.380	7.938	3.571	0.0937	0.3125	0.1406	3/32	5/16	9/64
flanged	2.380	7.938	3.571	0.0937	0.3125	0.1406	3/32	5/16	9/64
standard	3.175	6.350	2.380	0.1250	0.2500	0.0937	1/8	1/4	3/32
flanged	3.175	6.350	2.380	0.1250	0.2500	0.0937	1/8	1/4	3/32
standard	3.175	6.350	2.779	0.1250	0.2500	0.1094	1/8	1/4	7/64
flanged	3.175	6.350	2.779	0.1250	0.2500	0.1094	1/8	1/4	7/64
standard	3.175	7.938	2.779	0.1250	0.3125	0.1094	1/8	5/16	7/64
flanged	3.175	7.938	2.779	0.1250	0.3125	0.1094	1/8	5/16	7/64
standard	3.175	7.938	3.571	0.1250	0.3125	0.1406	1/8	5/16	9/64
flanged	3.175	7.938	3.571	0.1250	0.3125	0.1406	1/8	5/16	9/64
standard	3.175	9.525	2.779	0.1250	0.3750	0.1094	1/8	3/8	7/64
flanged	3.175	9.525	2.779	0.1250	0.3750	0.1094	1/8	3/8	7/64
standard	3.175	9.525	3.571	0.1250	0.3750	0.1406	1/8	3/8	9/64
flanged	3.175	9.525	3.571	0.1250	0.3750	0.1406	1/8	3/8	9/64
standard	3.175	9.525	3.967	0.1250	0.3750	0.1562	1/8	3/8	5/32
flanged	3.175	9.525	3.967	0.1250	0.3750	0.1562	1/8	3/8	5/32
standard	3.175	12.700	4.366	0.1250	0.5000	0.1719	1/8	1/2	11/64
flanged	3.175	12.700	4.366	0.1250	0.5000	0.1719	1/8	1/2	11/64
standard	3.967	7.938	2.779	0.1562	0.3125	0.1094	5/32	5/16	7/64
flanged	3.967	7.938	2.779	0.1562	0.3125	0.1094	5/32	5/16	7/64
standard	3.967	7.938	3.175	0.1562	0.3125	0.1250	5/32	5/16	1/8
flanged	3.967	7.938	3.175	0.1562	0.3125	0.1250	5/32	5/16	1/8
standard	4.763	7.938	2.779	0.1875	0.3125	0.1094	3/16	5/16	7/64
flanged	4.763	7.938	2.779	0.1875	0.3125	0.1094	3/16	5/16	7/64
standard	4.763	7.938	3.175	0.1875	0.3125	0.1250	3/16	5/16	1/8
flanged	4.763	7.938	3.175	0.1875	0.3125	0.1250	3/16	5/16	1/8
standard	4.763	9.525	3.175	0.1875	0.3750	0.1250	3/16	3/8	1/8
flanged	4.763	9.525	3.175	0.1875	0.3750	0.1250	3/16	3/8	1/8

Designation/Type						* Load Rating (only 100 Cr6)		* Limiting Speed x1000rpm (open & 2Z)		Weight (g) approx.
open		2Z		2RS/2TS		C, dyn. N	C, stat. N	Grease	Oil	
Chrome Steel	Stainless	Chrome Steel	Stainless	Chrome Steel	Stainless					
R 1-4	SR 1-4	-	-	-	-	284	96	67.0	80.0	< 1 g
FR 1-4	SFR 1-4	-	-	-	-	284	96	67.0	80.0	< 1 g
-	-	R 1-4-2Z	SR 1-4-2Z	-	-	284	96	67.0	80.0	< 1 g
-	-	FR 1-4-2Z	SFR 1-4-2Z	-	-	284	96	67.0	80.0	< 1 g
R 133	SR 133	-	-	-	-	144	53	80.0	95.0	< 1 g
FR 133	SFR 133	-	-	-	-	144	53	80.0	95.0	< 1 g
-	-	R 133-2Z	SR 133-2Z	-	-	144	53	80.0	95.0	< 1 g
-	-	FR 133-2Z	SFR 133-2Z	-	-	144	53	80.0	95.0	< 1 g
R 1-5	SR 1-5	-	-	-	-	552	176	60.0	71.0	< 1 g
FR 1-5	SFR 1-5	-	-	-	-	552	176	60.0	71.0	< 1 g
-	-	R 1-5-2Z	SR 1-5-2Z	-	-	552	176	60.0	71.0	< 1 g
-	-	FR 1-5-2Z	SFR 1-5-2Z	-	-	552	176	60.0	71.0	< 1 g
R 144	SR 144	-	-	-	-	284	96	67.0	80.0	< 1 g
FR 144	SFR 144	-	-	-	-	284	96	67.0	80.0	< 1 g
-	-	R 144-2Z	SR 144-2Z	-	-	284	96	67.0	80.0	< 1 g
-	-	FR 144-2Z	SFR 144-2Z	-	-	284	96	67.0	80.0	< 1 g
R 2-5	SR 2-5	-	-	-	-	558	180	60.0	67.0	< 1 g
FR 2-5	SFR 2-5	-	-	-	-	558	180	60.0	67.0	< 1 g
-	-	R 2-5-2Z	SR 2-5-2Z	-	-	558	180	60.0	67.0	< 1 g
-	-	FR 2-5-2Z	SFR 2-5-2Z	-	-	558	180	60.0	67.0	< 1 g
R 2-6	SR 2-6	-	-	-	-	640	227	53.0	63.0	< 2 g
FR 2-6	SFR 2-6	-	-	-	-	640	227	53.0	63.0	< 2 g
-	-	R 2-6-2Z	SR 2-6-2Z	-	-	640	227	53.0	63.0	< 2 g
-	-	FR 2-6-2Z	SFR 2-6-2Z	-	-	640	227	53.0	63.0	< 2 g
R 2	SR 2	R 2-2Z	SR 2-2Z	R 2-2RS	SR 2-2RS	631	219	56.0	67.0	< 2 g
FR 2	SFR 2	FR 2-2Z	SFR 2-2Z	FR 2-2RS	SFR 2-2RS	631	219	56.0	67.0	< 2 g
R 2A	SR 2A	R 2A-2Z	SR 2A-2Z	R 2A-2RS	SR 2A -2RS	640	227	53.0	63.0	< 3 g
FR 2A	SFR 2A	FR 2A-2Z	SFR 2A-2Z	FR 2A-2RS	SFR 2A -2RS	640	227	53.0	63.0	< 3 g
R 155	SR 155	-	-	-	-	359	150	53.0	63.0	< 1 g
FR 155	SFR 155	-	-	-	-	359	150	53.0	63.0	< 1 g
-	-	R 155-2Z	SR 155-2Z	-	-	359	150	53.0	63.0	< 1 g
-	-	FR 155-2Z	SFR 155-2Z	-	-	359	150	53.0	63.0	< 1 g
R 156	SR 156	-	-	-	-	359	150	53.0	63.0	< 1 g
FR 156	SFR 156	-	-	-	-	359	150	53.0	63.0	< 1 g
-	-	R 156-2Z	SR 156-2Z	R 156-2TS	SR 156-2TS	359	150	53.0	63.0	< 1 g
-	-	FR 156-2Z	SFR 156-2Z	FR 156-2TS	SFR 156-2TS	359	150	53.0	63.0	< 1 g
R 166	SR 166	R 166-2Z	SR 166-2Z	R 166-2TS	SR 166-2TS	709	272	50.0	60.0	< 1 g
FR 166	SFR 166	FR 166-2Z	SFR 166-2Z	FR 166-2TS	SFR 166-2TS	709	272	50.0	60.0	< 1 g

Offene Ausführung (metrisch) / Open Type (metric series)

mm	inch	ZEN	ADR	FAG	GRW	RMB	BARDEN	MPB	NMB	NTN	SKF
1	0.0394	681	AX1		681	UL103			L-310		681
		MR31							L-310W51		
		691			691				R-410		691
1.2	0.0472	MR41X						R-412	BC1,2-4		
1.5	0.0591	681X	AX1.5		68/1.5	UL154			R-415	68/1.5	
		691X	619/1.5	MR69/1.5	69/1.5	R1550	19M1-5Y1	EL1.5C	R-515	69/1.5	
		601X						R-615	60/1.5		
2	0.0787	682	BX2	MR682	682	UL205		UL20C	L-520		682
		MR52							L-520W02	BC2.5	
		692	AX2	MR619/2	692	R2060	19M2Y1	EL2C	R-620		692
		MR62							R-620W52	BC2-6	
		MR72						R-720Y52	BC2-7		
		602						R-720		602	
2.5	0.0984	682X	AX2.5		68/2.5	UL256	18M2-5		L-625	68/2.5	
		692X	X2.5		69/2.5		19M2-5Y1		R-725	69/2.5	
		MR82X							R-825Y52	BC2.5-8	
		602X	60/2.5	MR60/2.5	60/2.5	R2580			R-825Y52	60/2.5	
3	0.1181	MR63	617/3						L-630		673
		683	AX3	MR618/3	683	UL307		UL30C	L-730		683
		MR83	X3		693/003				R-830Y52	BC3-8	
		693	619/3		693				R-830Y52		693
		MR93							R-930Y52	BC3-9	
		603							R-930		603
		623	623	MR623	623	R3100	2M3Y1	EL-3R	R-1030		623
		633								633	
4	0.1575	MR74	617/4						L-740		674
		MR84							L-840	BC4-8	
		684	AX4	MR618/4	684	UL409		UL40C	L-940		684
		MR104	X4						L-1040	BC4-10	
		694	AY4		694				R-1140		694
		604	604		604				R-1240		604
		624	624	MR624	624	R4130	2M4	EL4R	R-1340		624
5	0.1969	634	634	MR634	634	R4160	34		R-1640		634
		MR85	617/5						L-850		675
		MR95							L-950	BC5-9	
		MR105							L-1050	BC5-10	
		685	X5	MR618/5	685	UL511	UL50C	UL50C	L-1150		685
		695	AY5		695				R-1350		695
		605			605				R-1450		605
6	0.2362	625	625	MR625	625	R5160	34-5	EL5R	R-1650		625
		635	635	MR635	635	R5190	35		R-1950		635
		MR106	617/6						L-1060		676
		MR126	X6						L-1280	BC6-12	
		686	AX6	MR618/6	686	UL613		UL60C	L-1380		686
		696	AY6		696				R-1580		696
		606							R-1760		606
7	0.2756	626	626	MR628	626	R6190	38	EL6R	R1960		626
		MR117	617/7						L-1170		677
		MR137							L-1370	BC7-13	
		687	AX7	618/7	687	UL714		UL70C	L-1470		687
		697	AY7		697						697
		607	607	MR607	607			EL7R	R-1970		607
		627	627	MR627	627	R7220	37		R-2270		627
8	0.315	MR128	617/8						L-1280		678
		MR148							L-1480	BCB-14	
		688	X8	MR618/8	688	UL816			L-1680		688
		698	AY8		698		19M8		R-1980		698
		608	608	MR608	608	R8220	38	EL8R	R-2280		608
		628									628
9	0.3543	689	X9		689	UL917			L-1790		689
		699	AY9		699		19M9		L-2090		699
		609	609	609	609	609					609
		629	629	MR629	629		39				629

Niro
Stainless Steel

S

S

W

S

X

S

S

DD

W

S

mm	inch	ZEN	ADR	FAG	GRW	RMB	BARDEN	MPB	NMB	NTN
1.5	0.0591	681XZZ	AX1.5ZZ		68/1.5ZZ	ULZ154		UL15CHH	L-415ZZ	W68/1.5ZZA
		691XZZ	X1.5ZZ		69/1.5ZZ				R515ZZ	W69/1.5ZZA
		601XZZS							R-615ZZ	W60/1.5ZZA
2	0.0787	682ZZS	BX2ZZ		682-2Z	ULZ205	38M2SS	UL20CHH	L-520ZZ	W682ZZA
		MR52ZZ							L-520ZZW52	WBC2-5ZZA
		692ZZ	AX2ZZ						R-620ZZ	W692ZZA
		MR62ZZ							R-620ZZY52	
		MR72ZZ							R-720ZZY03	WBC2-7ZZA
2.5	0.0984	602ZZS							R-720ZZ	W602ZZA
		682XZZS	AX2.5ZZ		68/2.5ZZ	ULZ256	38M2-5SS		L-625ZZ	W68/2.5ZZA
		692XZZ			69/2.5ZZ				R-725ZZ	W69/2.5ZZA
3	0.1181	602XZZS							R-825ZZ	W60/2.5ZZA
		MR63ZZ							L-630ZZ	WA673ZZA
		683ZZ	AX3ZZ		683-2Z	UL7307	38M3SS	UL30CHH	L-730ZZ	W683ZZA
4	0.1575	693ZZ			693-2Z				R-830ZZ	W693ZZA
		MR93ZZ							R-930ZZY04	WBC3-9ZZA
		623ZZ	623ZZ	623ZZ	623-2Z	RF310	2M3SSY1	EL3RHH	R-1030ZZ	623ZZ
		633ZZ								633ZZ
		MR74ZZ								L-740X2ZZ
5	0.1969	MR84ZZ							L-840ZZ	WBC4-8ZZA
		684ZZ	638/4ZZ		684-2Z	ULZ409	38M455	UL40CHH	L-940ZZ	W684ZZA
		MR104ZZ	X4ZZ						L-1040ZZ	WBC4-10ZZA
		694ZZ	AY4ZZ		694-2Z				R-1140ZZ	694ZZ
		604ZZ	604ZZ		604-2Z				R-1240ZZ	604ZZ
		624ZZ	624ZZ	624ZZ	624-2Z	RF413	2M4SS	EL4RHH	R-1340ZZ	624ZZ
6	0.2362	634ZZ	634ZZ	MR634ZZ	634-2Z	RV416	34SS	34RHH	R-1640ZZ	634ZZ
		MR85ZZ							L-850ZZ	WA675ZZA
		MR95ZZA							L-950X2ZZ	WBC5-9ZZA
		MR105ZZ							L-1050ZZ	WBC5-10ZZA
		685ZZ	638/5ZZ		685-2Z	ULZ511		UL50CHH	L-1150ZZ	W685ZZ
		695ZZ	AY5ZZ		695-2Z				R-1350ZZ	895ZZ
		605ZZ			605-2Z				R-1450ZZ	605ZZ
7	0.2756	625ZZ	625ZZ	625ZZ	625-2Z	RV516	34.5SS	EL5RHH	R-1650ZZ	625ZZ
		635ZZ	635ZZ	MR635ZZ	635-2Z	RV519	35SS		R-1950ZZ	635ZZ
		MR106ZZS							L-1060ZZ	WA676ZZA
		MR126ZZ	X6ZZ						L-1260ZZ	WBC6-12ZZA
		686ZZ	628/6ZZ		686-2Z	ULZ613		UL60CHH	L-1360ZZ	W686ZZ
8	0.315	696ZZ	ZY6ZZ		696-2Z				R-1560ZZ	696ZZ
		606ZZ							R-1760ZZ	606ZZ
		626ZZ	626ZZ	MR626ZZ	626-2Z	RV619	36SS	EL6RHH	R-1960ZZ	626ZZ
		MR117ZZS							L-1170ZZ	WA677ZZA
		MR137ZZS							L-1370ZZ	WBC7-13ZZA
		687ZZ	AX7ZZ		687-2Z	ULZ714		UL70CH	L-1470ZZ	W687ZZ
9	0.3543	697ZZ	AY7ZZ		697-2Z					697ZZ
		607ZZ	607ZZ	607ZZ	607-2Z			EL7RHH	R-1970ZZ	607ZZ
		627ZZ	627ZZ	MR627ZZ	627-2Z	RV722	37SS		R-2270ZZ	627ZZ
		MR128ZZS	637/8ZZ						L-1280ZZ	W678ZZA
		MR148ZZA							L-1480ZZ	WBC8-14ZZA
8	0.315	688ZZ	X8ZZ			ULZ816			L-1680ZZ	W688ZZ
		698ZZ	AY8ZZ		698-2Z		19M8SS		R-1980ZZ	698ZZ
		608ZZ	608ZZ	MR608ZZ	608-2Z	RV822	38SS	EL8RHH	R-2280ZZ	608ZZ
		628ZZ								628ZZ
		689ZZ	X9ZZ			ULZ917			L-1790ZZ	W689ZZ
9	0.3543	699ZZ	AY9ZZ		699-2Z		19M9SS		L-2090ZZ	699ZZ
		609ZZ	609ZZ	609ZZ						609ZZ
		629ZZ	629ZZ	MR629ZZ	629-2Z		39SS			629ZZ

Niro
Stainless Steel

S

S

W

S

X

S

S

DD

W

mm	inch	ZEN	ADR	FAG	GRW	RMB	BARDEN	MPB	NMB	NTN
1.016	0.04	R09	RO9	RO308	1016	UL1304		2C	R1-2	R01
1.191	0.0469	RO	X3/64	R0310	1191	UL1505	RO	21/2C	R1-21/2	RO
1.397	0.055	R1	R1	R0412	1397	R1706	R1	3C	R1-3	R1
1.984	0.0781	R1-4	X5/64	R0516	BR5/64	R2508	R1-4	4C	R1-4	R1-4
2.38	0.0937	R133	AX3/32	RO612	2380	UL3008	R133	3332C	R1-3332	R133
		R1-5	X3/32	R620	BR3/32	R3010	R1-5	5C	R1-5	R1-5
3.175	0.125	R144	AX1/8	R0816	3175	UL4008	R144	418C	R1-418	R144
		R2-5	X1/8	R820	BR1/8A	R4010	R2-5	518C	R1-518	R2-5
		R2-6		R824	BR1/8A/6		R2-6	618C	R1-618	R2-6
		R2	R2	R2	BR1/6B	R4012	R2	R2C	R-2	R2
		R2A	R2A	R2A	BR1/8B/083		R2A	R2AC		RA2
3.967	0.1562	R155	X5/32	R1020	3967	UL5010	R155	5532C	RI-5532	R155
4.762	0.1875	R156	AX3/16	R1220	4763A	UL6010	R156	5632C	RI-5632	R156
		R166	X3/16	R1224	4763B	UL6012	R166	6316C	RI-6632	R166
		R3	Y3/16	R3	BR3/16	R6016	R3	R3C	R-3	R3
6.35	0.25	R168	X1/4	R1624	6350A	UL8012	R168	614C	RI-614	R168
		R188	R188	R1632	6350B	UL8016	R188	814C	RI-814	R188
		R4	Y1/4	R4	BR1/4A	R8020	R4	R4C	R-4	R4
		R4A	R4A	R4A	BR1/4A		R4A	R4AR	RI-1214	
7.938	0.3125	R1810		R2032	7938		R1810	8516C	RI-8516	
9.525	0.375	R6	Y3/8	R620	BR3/8		R6	R6R	RI-1438	

Niro

Stainless Steel

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S

X

S

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DD

W

Geschlossene Ausführung (zöllig) / Shielded Type (inch type)

mm	inch	ZEN	ADR	FAG	GRW	RMB	BARDEN	MPB	NMB	NTN
1.191	0.0469	ROZZS	X3/64ZZ	R0310.2Z	1191-2Z	ULZ1505	21/2CHH	RI-21/2ZZ	RAOZZA	
1.397	0.055	R1ZZ	R1ZZ	RO412.2Z	1397-2Z	RF1706	R1S	3CHH	RI-3ZZ	RA1ZZ1
1.984	0.0781	R1-4ZZS	X5-64ZZ	R0516.2Z	BR5/64-2Z	RF2508	R1-4SS	4CHH	R1-4ZZ	RA1-4ZZ1
2.38	0.0937	R133ZZS	AX3/32ZZ	RO612.2Z	2380-2Z	ULZ3006	R133SS	3332CHH	R1-3332ZZ	RA133ZZA
3.175	0.125	R144ZZ	AX1/8ZZ	RO816.2Z	3175-2Z	ULZ4008	R144SS	418CHH	R1-418ZZ	RA144ZZA
		R2-5ZZ	X1/8ZZ	R820.2Z	BR1/8A-2Z	RF4010	R2-5SS	518CHH	R1-518ZZ	RA2-5ZZA
		R2-6ZZS		R824.2Z	BR1/8A/6-2Z		R2-6SS	618CHH	R1-618ZZ	RA2-6ZZA
		R2ZZ	R2ZZ	R2.2Z	BR1/8B-2Z	RF4012	R2SS	R2CHH	R-2ZZ	R2ZZA
		R2AZZ	R2AZZ	R2A.2Z	BR1/8B/083-2Z		R2ASS	R2ACHH	RA2ZZA	
3.967	0.1562	R155ZZS	X5/32ZZ	R1020.2Z	3967-2Z	ULZ5010	R155SS	5532CHH	R1-5532ZZ	RA155ZZA
4.762	0.1875	R156ZZS	AX3/16ZZ	R1220.2Z	4763A-2Z	ULZ6010	R156SS	5632CHH	R1-5632ZZ	RA156ZZA
		R166ZZ	X3/16ZZ	R1224.2Z	4763B-2Z	ULZ6012	R166SS	6316CHH	R1-6632ZZ	R166ZZA
		R3ZZ	Y3/16ZZ	R3.2Z	BR3/16-2Z	RF6016	R3SS	R3CHH	R-3ZZ	RA3ZZ
6.35	0.25	R168ZZS	X1/4ZZ	R1624.2Z	6350A-2Z	ULZ8012	R168SS	614CHH	R1-614ZZ	R168ZZA
		R188ZZ	R188ZZ	R1632.2Z	6350B-2Z	ULZ8016	R188SS	814CHH	R1-814ZZ	RA188ZZA
		R4ZZ	Y1/4ZZ	R4.2Z	BR1/4A-2Z	RF8020	R4SS	R4CHH	R-4ZZ	R4ZZ
		R4AZZ	R4AZZ	R4A.2Z	BR1/4.2Z		R4ASS	R4ARHH	R1-1214ZZ	R4AZZ
7.938	0.3125	R1810ZZS		R2032.2Z	7938-2Z		R1810SS	8516CHH	R1-8516ZZ	
9.525	0.375	R6ZZ	Y3/8ZZ	R6.2Z	BR3/6-2Z		R6SS	R6RHH	R1-1438ZZ	R6ZZ

Niro

Stainless Steel

S

S

W

S

X

S

S

DD

W

inch	ZEN	ADR	FAG	GRW	RMB	BARDEN	MPB	NMB	NTN
0.0469	FR0ZZS	FX3/64ZZ	RF0310.2Z	F1191-2Z	ULKZ1505	FR0SS	21/2FCHH	RIF-21/2ZZ	FLRAOZZA
0.055	FR1ZZ	FR1ZZ	RF0412.2Z	F1397-2Z	RKF-1706	FR1SS	3FCHH	RIF-3ZZ	FLRA1ZZA
0.0781	FR1-4ZZS	FX5/64ZZ	RF0516.2Z	R6/64-2Z	RKF2508	FR1-4SS	4FCHH	RIF-4ZZ	FLRA1-4ZZA
0.0937	FR133ZZS	FAX3/32ZZ	RF0612.2Z	F2380-2Z	ULKZ3006	FR133SS	3332FCHH	RIF-3332ZZ	FLRA133ZZA
	FR1-5ZZS	FX3/32ZZ	RF620.2Z	F3/32-2Z	RKF3010	FR1-5SS	5FCHH	RIF-5ZZ	FLRA1-5ZZA
0.125	FR144ZZ	FAX1/8ZZ	RF0816.2Z	F3175-2Z	ULKZ4008	FR144SS	418FCHH	RIF-418ZZ	FLRA144ZZA
	FR2-5ZZ	FX1/8ZZ	RF820.2Z	F1/8A-2Z	RKF4010	FR2-5SS	518FCHH	RIF-518ZZ	FLRA2-5ZZA
	FR2-6ZZS		RF824.2Z	F1/8A/6-2Z		FR2-6SS	618FCHH	RIF-618ZZ	FLRA2-6ZZA
	FR2ZZ	FR2ZZ	RF2.2Z	F1/8B-2Z	RKF4012	FR2SS	R2FCHH	RF-2ZZ	FLR2ZZA
0.1562	FR155ZZS	FX5/32ZZ	RF1020.2Z	F3967-2Z	ULKZ5010	FR155SS	5532FCHH	RIF-5532ZZ	FLRA155ZZA
0.1875	FR156ZZS	FAX3/16ZZ	RF1220.2Z	F4763A-2Z	ULKZ6010	FR156SS	5632FCHH	RIF-5632ZZ	FLRA156ZZA
	FR166ZZ	FX3/16ZZ	RF1224.2Z	F4763B-2Z	ULKZ6012	FR166SS	6316FCHH	RIF-6632Z	FLRA166ZZA
	FR3ZZ	FY3/16ZZ	RF3.2Z	F3/16-2Z	RKF6016	FR3SS	R3FCHH	RF-3ZZ	FLRA3ZZ
0.25	FR168ZZS	FX1/4ZZ	RF1624.2Z	F6350A-2Z	ULKZ8012	FR168SS	614CHH	RIF-614ZZ	FLRA166ZZA
	FR188ZZ	FR188ZZ	RF1632.2Z	F6350B-2Z	ULKZ8016	FR188SS	814FCHH	RIF-814ZZ	FLRA188ZZA
	FR4ZZ	FY1/4ZZ	RF4.2Z	F1/4A-2Z	RKF8020	FR4SS	R4FCHH	RF-4ZZ	FLRAZZ
0.3125	FR1810ZZS		RF2032.2Z	F7938-2Z		FR1810SS	8516FCHH	RIF-8516ZZ	
0.375	FR6ZZ	FY3/8ZZ	RF6.2Z			FR6SS	R6FRHH	RIF-1438ZZ	FLR6ZZ

Geschlossene Flanschlager (metrisch) / Flanged Shielded Type (metric series)

mm	inch	ZEN	ADR	GRW	RMB	BARDEN	MPB	NMB	NTN
1.5	0.591	F691XZZ	FX1.5ZZ	F69/1.5-2Z				RF-515ZZ	FLW69/1.5ZZA
		F601XZZS						RF-615ZZ	FLW60/1.5ZZA
2	0.0787	F682ZZ	FBX2ZZ	F682-2Z	ULKZ205	F682SS	UL20FCHH	LF-520ZZ	FLW682ZZA
		F692ZZ	FAX2ZZ			F692SS		RF-620ZZ	FLW692ZZA
		MF72ZZ						RF-720ZZY03	FLW8C2-7ZZA
		F602ZZS						RF-720ZZ	FLW602ZZA
2.5	0.0984	F682XZZS	FAX2.5ZZ	F68/2.5-2Z	ULKZ256	F68/2.5SS		LF-625ZZ	FLW68/2.5ZZA
		F692XZZ	FX2.5ZZ	F69/2.5-2Z		F69/2.5SS		RF-725ZZ	FLW69/2.5ZZA
		F602XZZS						RF-825ZZ	FLW60/2.5ZZA
3	0.1181	MF63ZZS						FL630ZZ	FLWA67ZZA
		F683ZZ	FAX3ZZ	F683-2Z	ULKZ307	F683SS	UL30FCHH	LF-730ZZ	FLW683ZZA
		F693ZZ	FX3ZZ	F693-2Z	RKF308			RF-830ZZ	FLW693ZZA
		MF93ZZ						RF-930ZZY04	FLWBC3-9ZZA
		F623ZZ	F623ZZ	F623-2Z	RKF310	F623SS		RF-1030ZZ	FL623ZZA
4	0.1575	MF74ZZ						LF-740ZZ	FLWA674ZZA
		MF84ZZ						LF-840ZZ	FLWBC4-8ZZA
		F684ZZ	F683/4ZZ	F684-2Z	ULKZ409	F684SS	UL40FCHH	LF-940ZZ	FLW684ZZA
		MF104ZZ						LF-1040ZZ	FLAWBC4-10ZZA
		F694ZZ		F694-2Z		F694SS		RF-1140ZZ	FL694ZZA
		F604ZZ						RF-1240ZZ	FL604ZZ
		F624ZZ	F624ZZ	F624-2Z		F624SS		RF-1340ZZF	L624ZZ
		F634ZZ		F634-2Z		F634SS		RF-1640ZZ	FL634ZZ
5	0.1969	MF85ZZ						LF-850ZZ	FLWA675ZZA
		MF95ZZ						LF-950ZZ	FLWBC5-9ZZA
		MF105ZZ						LF-1050ZZ	FLAWBC5-10ZZA
		F685ZZ	F638/5ZZ	F685-2Z	ULKZ511	F685SS	UL50FCHH	LF-1150ZZ	FLW685ZZA
		F695ZZ		F695-2Z		F695SS		RF-1350ZZ	FL695ZZ
		F605ZZ		F605-2Z				RF-1450ZZ	FL605ZZ
		F625ZZ		F625-2Z		F625SS		RF-1850ZZ	FL625ZZ
		F635ZZ		F635-2Z		F635SS		RF1950ZZ	FL635ZZ
6	0.2362	MF106ZZ						RF-1650ZZ	FLWA676ZZA
		MF126ZZ						UF-1260ZZ	FLAWBC6-12ZZA
		F686ZZ	F628/6ZZ	F686-2Z	ULKZ613	F686SS	UL60FCHH	LF-1360ZZ	FLW686ZZA
		F696ZZ		F696-2Z		F696SS		RF-1560ZZ	FL696ZZ
		F606ZZ						RF-1760ZZ	FL606ZZ
		F626ZZ		F626-2Z		F626SS			FL626ZZ
7	0.2756	MF117ZZS						LF-1170ZZ	FLWA677ZZA
		MF137ZZS						LF-1370ZZ	FLAWBC7-13ZZA
		F687ZZ	FAX7ZZ	F687-2Z	ULKZ714	F687SS	UL70FCHH	LF-1470ZZ	FLW687ZZA
		F697ZZ		F697-2Z		F697SS			FL697ZZ
		F607ZZ	F607ZZ	F607-2Z		F607SS			FL607ZZ
		F627ZZ		F627-2Z		F627SS			FL627ZZ
8	0.315	MF128ZZ						RF-2270ZZ	FL627ZZ
		MF148ZZ						LF-1280ZZ	FLAW678ZZA
		F688ZZ				F688SS		UF-1480ZZ	FLWBC8-14ZZA
		F698ZZ		F698-2Z		F698SS		UF-1680ZZ	FLW688ZZ
		F608-ZZ	F608ZZ	F608-2Z		F608SS			FL698ZZ
9		F689ZZ				F689SS		RF-2280ZZ	FL608ZZ
		F699ZZ						FL-1790ZZ	FLW689ZZ
									FL699ZZ

Niro
Stainless Steel

S

S

S

X

S

S

DD

W

Fraction	Inch	mm	Fraction	Inch	mm	Fraction	Inch	mm
1/64	0.0156	0.3969		0.2883	7.3228	11/16	0.6875	17.4625
	0.0250	0.6350	19/64	0.2969	7.5406	45/64	0.7031	17.8594
1/32	0.0312	0.7937	5/16	0.3125	7.9375		0.7087	18.0000
	0.0394	1.0000		0.3150	8.0000	23/32	0.7187	18.2562
	0.0400	1.0160	21/64	0.3281	8.3344	47/64	0.7344	18.6532
3/64	0.0469	1.1906	11/32	0.3437	8.7312		0.7435	18.8849
	0.0472	1.2000		0.3543	9.0000		0.7480	19.0000
	0.0550	1.3970	23/64	0.3594	9.1281	3/4	0.7500	19.0500
	0.0591	1.5000	3/8	0.3750	9.5250	49/64	0.7656	19.4469
1/16	0.0625	1.5875	25/64	0.3906	9.2919		0.7717	19.6012
	0.0709	1.8000		0.3937	10.0000	25/32	0.7812	19.8433
5/64	0.0781	1.9844	13/32	0.4062	10.3187		0.7874	20.0000
	0.0787	2.0000		0.4100	10.4140	51/64	0.7969	20.2402
	0.0906	2.3012	27/64	0.4219	10.7156	13/16	0.8125	20.6375
3/32	0.0937	2.3812		0.4250	10.7950		0.8268	21.0000
	0.0984	2.5000		0.4331	11.0000	53/64	0.8281	21.0344
	0.1000	2.5400	7/16	0.4375	11.1125	27/32	0.8437	21.4312
	0.1024	2.6000	29/64	0.4531	11.5094	55/64	0.8594	21.8281
7/64	0.1094	2.7781		0.4600	11.6840		0.8661	22.0000
	0.1100	2.7940	15/32	0.4687	11.9062	7/8	0.8750	22.2250
	0.1102	2.8000		0.4724	12.0000	57/64	0.8906	22.6219
	0.1181	3.0000	31/64	0.4844	12.3031		0.9055	23.0000
1/8	0.1250	3.1750	1/2	0.5000	12.7000	29/32	0.9062	23.0187
	0.1256	3.1902		0.5118	13.0000	59/64	0.9219	23.4156
	0.1378	3.5000	33/64	0.5156	13.0968	15/16	0.9375	23.8125
9/64	0.1406	3.5719	17/32	0.5312	13.4937		0.9449	24.0000
5/32	0.1562	3.9687	35/64	0.5469	13.8906	61/64	0.9531	24.2094
	0.1575	4.0000		0.5512	14.0000	31/32	0.9687	24.6062
11/64	0.1719	4.3656	9/16	0.5625	14.2875		0.9843	25.0000
3/16	0.1875	4.7625	37/64	0.5781	14.6844	63/64	0.9844	25.0031
	0.1892	4.8057		0.5906	15.0000		1.0000	25.4000
	0.1969	5.0000	19/32	0.5937	15.0812		1.0236	26.0000
13/64	0.2031	5.1594	39/64	0.6094	15.4781		1.0415	26.4541
	0.2165	5.4991	5/8	0.6250	15.8750		1.0480	26.6192
7/32	0.2187	5.5562		0.6299	16.0000	1-1/16	1.0625	26.9875
15/64	0.2344	5.9531	41/64	0.6406	16.2719		1.0630	27.0000
	0.2362	6.0000		0.6500	16.5100		1.1025	28.0000
1/4	0.2500	6.3500	21/32	0.6562	16.6687	1-1/8	1.1250	28.5750
17/64	0.2656	6.7469		0.6620	16.8148		1.1417	29.0000
	0.2756	7.0000		0.6693	17.0000		1.1812	30.0000
9/32	0.2812	7.1437	43/64	0.6719	17.0656	1-3/16	1.1875	30.1625
						1-1/4	1.2500	31.7500
						1-1/2	1.5000	38.1000

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