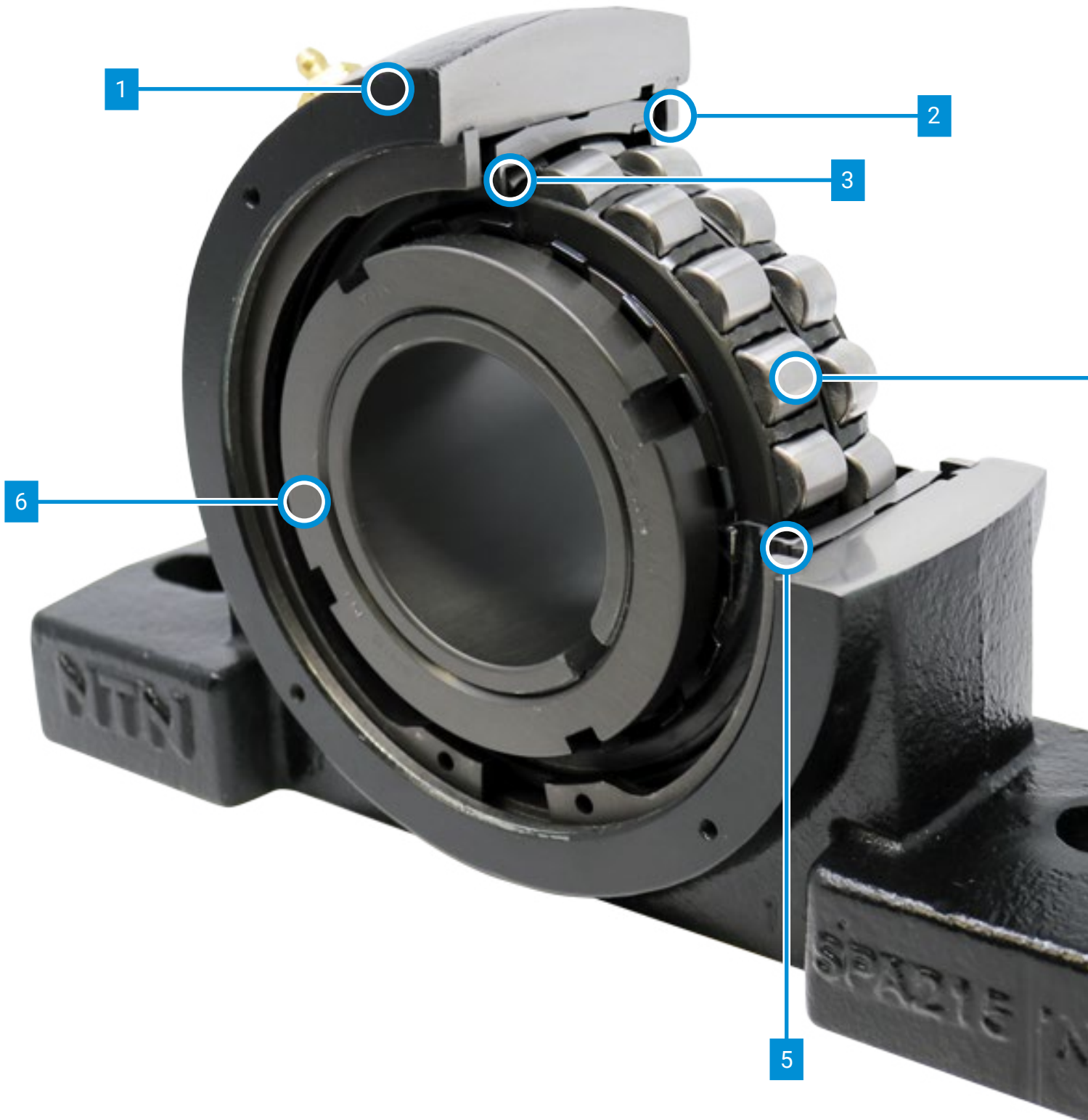




SPAW Heavy-Duty Bearing Units Interchange Guide



Heavy loads and contamination require heavy-duty protection.



The Better Option

Less downtime.
More profitability.

NTN SPAW/SPW Heavy Duty Spherical Roller Bearing Units have been designed and tested to provide superior performance in applications with heavy contamination concerns. These are easy-to-install SAF/SN replacement units that are factory sealed, pre-lubricated, and assembled.

4

Product Features & Benefits

- 1 One-piece, sturdy ductile iron housing to withstand high shock and impact from falling debris
- 2 Repositionable snap ring allows for versatile fixed or float unit
- 3 Spring-loaded, single-lip contact bearing seal for superior sealing
- 4 Bearings with super-finished rollers for less noise, and raceway designs that accommodate higher misalignment
- 5 Unitized bearing insert allows for easy replacement
- 6 Phosphate-coated locknut/adaptor sleeve for secure mounting and corrosion protection



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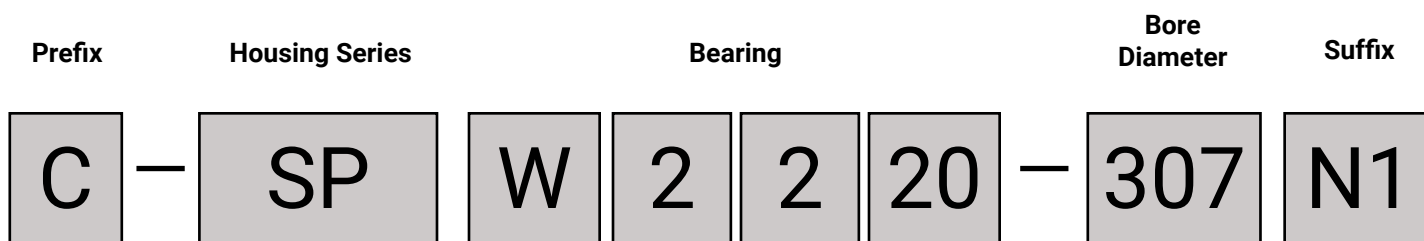
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Heavy-Duty Block Nomenclature System



1. PREFIX

- No symbol: Standard unit with sealed spherical roller bearing insert
- C: 2 open end covers (SFC housing with one cover only)
- CM: 1 open end cover, 1 closed end cover (SFC housing with end cover only)

2. HOUSING

- SP: Pillow block unit to SN housing dimensions
- SPA: Pillow block unit to SAF housing dimensions (SP and SPA only) Ductile iron
- FSPA: Pillow block unit to SAF housing dimensions Ductile iron, 4 bolt
- SFC: 4 bolt piloted circular flange block for two or four bolt arrangement

3. BEARING

- W22xx: MX-W222xx series sealed spherical roller bearing

4. BORE DIAMETER (-Xnn)

- No value: Metric bore sizing (see tables)
- X: Number of inches
- nn: Number of 1/16 inches
eg.: -307 indicates a 3 7/16" bore

5. SUFFIX

- N1: Ductile iron housing (Standard)
- FN1: (SP and SPA only) Ductile iron housing with solid base and indents for two or four bolt arrangement

How To Order Your Ideal Bearing Unit

SPAW

Example: When you order one SPAW2220-307N1, you will receive an assembly consisting of one SPA220N1 Pillow Block Housing, one MX-W2220EALLKW33C3 Bearing, and one HA2320M1 Adapter.

When C-SPAW2220N1 or CM-SPAW2220N1 are specified, external covers will be supplied with the unit.

Example: "C" prefix – 2 open end covers

"CM" prefix – 1 open end cover, 1 closed end cover

SPW

Example: When you order one SPW2220N1, you will receive an assembly consisting of one SP220N1 Pillow Block Housing, one MX-W2220EALLKW33C3 Bearing, and one H2320XM1 Adapter.

To order a solid base housing, add suffix F to the part number (example: SPW2220FN1).

When C-SPW2220N1 or CM-SPW2220N1 are specified, external covers will be supplied with the unit.

Example: "C" prefix – 2 open end covers

"CM" prefix – 1 open end cover, 1 closed end cover

SFCW

Example: When you order one SFCW2220N1, you will receive an assembly consisting of one SFC220N1 Flange Block Housing, one MX-W2220EALLKW33C3 Bearing, and one H2320XM1 Adapter.

When C-SFCW2220N1 or CM-SFCW2220N1 are specified, external covers will be supplied with the unit.

Example: "C" prefix – 2 open end covers

"CM" prefix – 1 open end cover, 1 closed end cover

Notes:– Open end cover service seals for which dimensions are shown are standard. For dimensions and availability of non-standard taconite service seals, consult NTN Engineering.

- All units are supplied in float arrangement and may be converted to fixed by relocation of a snap ring.
- All bearing inserts are supplied pre-lubricated with multi-purpose industrial bearing grease.
- Solid base housings may be drilled for 2 or 4 bolt arrangement.

Grease fittings are provided with all units.

Primary Adapter Mount Interchange

Bore Size (inches)	NTN	Timken QM	
	Adapter Mount	Adapter Mount Fixed	Adapter Mount Exp
1-15/16	SPAW2211-115N1	TAPA11K115SM	TAPA11K115SEM
2	SPAW2211-200N1	TAPA11K200SM	TAPA11K200SEM
2-3/16	SPAW2213-203N1	TAPA13K203SM	TAPA13K203SEM
2-1/4	SPAW2213-204N1	TAPA13K204SM	TAPA13K204SEM
2-3/8	SPAW2213-206N1	TAPA13K206SM	TAPA13K206SEM
2-7/16	SPAW2215-207N1 FSPAW2215-207N1	TAPA15K207SM	TAPA15K207SEM
2-1/2	SPAW2215-208N1 FSPAW2215-208N1	TAPA15K208SM	TAPA15K208SEM
2-15/16	SPAW2217-215N1 FSPAW2217-215N1	TAPA17K215SM	TAPA17K215SEM
3	SPAW2217-300N1 FSPAW2217-300N1	TAPA17K300SM	TAPA17K300SEM
3-7/16	SPAW2220-307N1 FSPAW2220-307N1	TAPA20K307SM	TAPA20K307SEM
3-1/2	SPAW2220-308N1 FSPAW2220-308N1	TAPA20K308SM	TAPA20K308SEM
3-15/16	SPAW2222-315N1	TAPA22K315SM	TAPA22K315SEM
4	SPAW2222-400N1	TAPA22K400SM	TAPA22K400SEM
4-3/16	SPAW2224-403N1	TAPA24K403SM	TAPA24K403SEM
4-1/4	SPAW2224-404N1	TAPA24K404SM	TAPA24K404SEM
4-7/16	SPAW2226-407N1	TAPA26K407SM	TAPA26K407SEM
4-1/2	SPAW2226-408N1	TAPA26K408SM	TAPA26K408SEM
4-15/16	SPAW2228-415N1	TAPA28K415SM	TAPA28K415SEM
5	SPAW2228-500N1	TAPA28K500SM	TAPA28K500SEM
5-7/16	SPAW2232-507N1	-	-
5-1/2	SPAW2232-508N1	-	-

	Dodge		Rexnord	
	Adapter Mount Fixed	Adapter Mount Exp	Adapter Mount Fixed	Adapter Mount Exp
	P2B511-ISAF-115R	P2B511-ISAF-115RE	MAF6115	MAFS6115
	P2B511-ISAF-200R	P2B511-ISAF-200RE	-	-
	P2B513-ISAF-203R	P2B513-ISAF-203RE	MAF6203	MAFS6203
	P2B513-ISAF-204R	P2B513-ISAF-204RE	-	-
	P2B513-ISAF-206R	P2B513-ISAF-206RE	-	-
	P2B515-ISAF-207R P4B515-ISAF-207R	P2B515-ISAF-207RE P4B515-ISAF-207RE	MAF6207 MAF6207F	MAFS6207 MAFS6207F
	P2B515-ISAF-208R P4B515-ISAF-208R	P2B515-ISAF-208RE P4B515-ISAF-208RE	-	-
	P2B517-ISAF-215R P4B517-ISAF-215R	P2B517-ISAF-215RE P4B517-ISAF-215RE	MAF6215 MAF6215F	MAFS6215 MAFS6215F
	P2B517-ISAF-300R P4B517-ISAF-300R	P2B517-ISAF-300RE P4B517-ISAF-300RE	-	-
	P2B520-ISAF-307R P4B520-ISAF-307R	P2B520-ISAF-307RE P4B520-ISAF-307RE	MAF6307 MAF6307F	MAFS6307 MAFS6307F
	P2B520-ISAF-308R P4B520-ISAF-308R	P2B520-ISAF-308RE P4B520-ISAF-308RE	-	-
	P4B522-ISAF-315R	P4B522-ISAF-315RE	MAF6315F	MAFS6315F
	P4B522-ISAF-400R	P4B522-ISAF-400RE	-	-
	P4B524-ISAF-403R	P4B524-ISAF-403RE	-	-
	P4B524-ISAF-404R	P4B524-ISAF-404RE	-	-
	P4B526-ISAF-407R	P4B526-ISAF-407RE	MAF6407YF	MAFS6407YF
	P4B526-ISAF-408R	P4B526-ISAF-408RE	-	-
	P4B528-ISAF-415R	P4B528-ISAF-415RE	MAF6415F	MAFS6415F
	P4B528-ISAF-500R	P4B528-ISAF-500RE	MAF6500F	MAFS6500F
	P4B532-ISAF-507R	P4B532-ISAF-507RE	MAF6507F	MAFS6507F
	P4B532-ISAF-508R	P4B532-ISAF-508RE	-	-

Secondary Adapter Mount Interchange

Bore Size (inches)	NTN	Timken QM	
	Adapter Mount	Single V-Lock	
1-15/16	SPAW2211-115N1	QVPA11V115SM	
2	SPAW2211-200N1	QVPA11V200SM	
2-3/16	SPAW2213-203N1	QVPA13V203SM	
2-1/4	SPAW2213-204N1	QVPA13V204SM	
2-3/8	SPAW2213-206N1	QVPA13V206SM	
2-7/16	SPAW2215-207N1 FSPAW2215-207N1	QVPA15V207SM	
2-1/2	SPAW2215-208N1 FSPAW2215-208N1	QVPA15V208SM	
2-15/16	SPAW2217-215N1 FSPAW2217-215N1	QVPA17V215SM	
3	SPAW2217-300N1 FSPAW2217-300N1	QVPA17V300SM	
3-7/16	SPAW2220-307N1 FSPAW2220-307N1	QVPA20V307SM	
3-1/2	SPAW2220-308N1 FSPAW2220-308N1	QVPA20V308SM	
3-15/16	SPAW2222-315N1	QVPA22V315SM	
4	SPAW2222-400N1	QVPA22V400SM	
4-3/16	SPAW2224-403N1	QVPA24V403SM	
4-1/4	SPAW2224-404N1	QVPA24V404SM	
4-7/16	SPAW2226-407N1	QVPA26V407SM	
4-1/2	SPAW2226-408N1	QVPA26V408SM	
4-15/16	SPAW2228-415N1	QVPA28V415SM	
5	SPAW2228-500N1	QVPA28V500SM	
5-7/16	SPAW2232-507N1	-	
5-1/2	SPAW2232-508N1	-	

	Timken QM	Dodge	
	Double V-Lock	Adapter Mount	
	QVVPA11V115SM	P2B511-ISAF-115L	P2B511-ISAF-115LE
	QVVPA11V200SM	P2B511-ISAF-200L	P2B511-ISAF-200LE
	QVVPA13V203SM	P2B513-ISAF-203L	P2B513-ISAF-203LE
	QVVPA13V204SM	P2B513-ISAF-204L	P2B513-ISAF-204LE
	QVVPA13V206SM	P2B513-ISAF-206L	P2B513-ISAF-206LE
	QVVPA15V207SM	P2B515-ISAF-207L P4B515-ISAF-207L	P2B515-ISAF-207LE P4B515-ISAF-207LE
	QVVPA15V208SM	P2B515-ISAF-208L P4B515-ISAF-208L	P2B515-ISAF-208LE P4B515-ISAF-208LE
	QVVPA17V215SM	P2B517-ISAF-215L P4B517-ISAF-215L	P2B517-ISAF-215LE P4B517-ISAF-215LE
	QVVPA17V300SM	P2B517-ISAF-300L P4B517-ISAF-300L	P2B517-ISAF-300LE P4B517-ISAF-300LE
	QVVPA20V307SM	P2B520-ISAF-307L P4B520-ISAF-307L	P2B520-ISAF-307LE P4B520-ISAF-307LE
	QVVPA20V308SM	P2B520-ISAF-308L P4B520-ISAF-308L	P2B520-ISAF-308LE P4B520-ISAF-308LE
	QVVPA22V315SM	P4B522-ISAF-315L	P4B522-ISAF-315LE
	QVVPA22V400SM	P4B522-ISAF-400L	P4B522-ISAF-400LE
	QVVPA24V403SM	P4B524-ISAF-403L	P4B524-ISAF-403LE
	QVVPA24V404SM	P4B524-ISAF-404L	P4B524-ISAF-404LE
	QVVPA26V407SM	P4B526-ISAF-407L	P4B526-ISAF-407LE
	QVVPA26V408SM	P4B526-ISAF-408L	P4B526-ISAF-408LE
	QVVPA28V415SM	P4B528-ISAF-415L	P4B528-ISAF-415LE
	QVVPA28V500SM	P4B528-ISAF-500L	P4B528-ISAF-500LE
	-	P4B532-ISAF-507L	P4B532-ISAF-507LE
	-	P4B532-ISAF-508L	P4B532-ISAF-508LE

Secondary Set Collar Interchange

Bore Size (inches)	NTN	Dodge <i>Tapered Roller Bearing</i>	
	Adapter Mount	Double Set Collar Fixed	Double Set Collar Exp
1-15/16	SPAW2211-115N1	P2B511-TAF-115R	P2B511-TAF-115RE
2	SPAW2211-200N1	P2B511-TAF-200R	P2B511-TAF-200RE
2-3/16	SPAW2213-203N1	P2B513-TAF-203R	P2B513-TAF-203RE
2-1/4	SPAW2213-204N1	P2B513-TAF-204R	P2B513-TAF-204RE
2-3/8	SPAW2213-206N1	P2B513-TAF-206R	P2B513-TAF-206RE
2-7/16	SPAW2215-207N1 FSPAW2215-207N1	P2B515-TAF-207R P4B515-TAF-207R	P2B515-TAF-207RE P4B515-TAF-207RE
2-1/2	SPAW2215-208N1 FSPAW2215-208N1	P2B515-TAF-208R P4B515-TAF-208R	P2B515-TAF-208RE P4B515-TAF-208RE
2-15/16	SPAW2217-215N1 FSPAW2217-215N1	P2B517-TAF-215R P4B517-TAF-215R	P2B517-TAF-215RE P4B517-TAF-215RE
3	SPAW2217-300N1 FSPAW2217-300N1	P2B517-TAF-300R P4B517-TAF-300R	P2B517-TAF-300RE P4B517-TAF-300RE
3-7/16	SPAW2220-307N1 FSPAW2220-307N1	P2B520-TAF-307R P4B520-TAF-307R	P2B520-TAF-307RE P4B520-TAF-307RE
3-1/2	SPAW2220-308N1 FSPAW2220-308N1	P2B520-TAF-308R P4B520-TAF-308R	P2B520-TAF-308RE P4B520-TAF-308RE
3-15/16	SPAW2222-315N1	P4B522-TAF-315R	P4B522-TAF-315RE
4	SPAW2222-400N1	P4B522-TAF-400R	P4B522-TAF-400RE
4-3/16	SPAW2224-403N1	P4B524-TAF-403R	P4B524-TAF-403RE
4-1/4	SPAW2224-404N1	P4B524-TAF-404R	P4B524-TAF-404RE
4-7/16	SPAW2226-407N1	P4B526-TAF-407R	P4B526-TAF-407RE
4-1/2	SPAW2226-408N1	P4B526-TAF-408R	P4B526-TAF-408RE
4-15/16	SPAW2228-415N1	P4B528-TAF-415R	P4B528-TAF-415RE
5	SPAW2228-500N1	P4B528-TAF-500R	P4B528-TAF-500RE
5-7/16	SPAW2232-507N1	P4B532-TAF-507R	P4B532-TAF-507RE
5-1/2	SPAW2232-508N1	P4B532-TAF-508R	P4B532-TAF-508RE

	Rexnord					
	Set Collar Fixed	Set Collar Exp	Set Collar Fixed	Set Collar Exp	Set Collar Fixed	Set Collar Exp
	-	ZAFS55115	-	MAFS55115	-	KAFS55115
	-	-	-	-	-	-
	ZAF5203	ZAFS5203	MAF5203	MAFS5203	KAF5203	KAFS5203
	-	-	-	-	-	-
	-	-	-	-	-	-
	ZAF5207 ZAF5207F	ZAFS5207 ZAFS5207F	MAF5207 MAF5207F	MAFS5207 MAFS5207F	KAF5207 KAF5207F	KAFS5207 KAFS5207F
	-	-	-	-	-	-
	ZAF5215 ZAF5215F	ZAFS5215 ZAFS5215F	MAF5215 MAF5215F	MAFS5215 MAFS5215F	KAF5215 KAF5215F	KAFS5215 KAFS5215F
	-	-	-	-	-	-
	ZAF5307 ZAF5307F	ZAFS5307 ZAFS5307F	MAF5307 MAF5307F	MAFS5307 MAFS5307F	KAF5307 KAF5307F	KAFS5307 KAFS5307F
	-	-	-	-	-	-
	ZAF5315F	ZAFS5315F	MAF5315F	MAFS5315F	KAF5315F	KAFS5315F
	-	-	-	-	-	-
	-	-	-	-	-	-
	-	-	-	-	-	-
	ZAF5407YF	ZAFS5407YF	MAF5407YF	MAFS5407YF	KAF5407YF	KAFS5407YF
	-	-	-	-	-	-
	ZAF5415F	ZAFS5415F	MAF5415F	MAFS5415F	KAF5415F	KAFS5415F
	-	-	-	-	-	-
	ZAF5507F	ZAFS5507F	MAF5507F	MAFS5507F	KAF5507F	KAFS5507F
	-	-	-	-	-	-

SAF Style Interchange

Bore Size (inches)	NTN	SAF
	Adapter Mount	Adapter Mount
1-15/16	SPAW2211-115N1	SAF22511X1.15/16
2	SPAW2211-200N1	SAF22511X2
2-3/16	SPAW2213-203N1	SAF22513X2.3/16
2-1/4	SPAW2213-204N1	SAF22513X2.1/4
2-3/8	SPAW2213-206N1	SAF22513X2.3/8
2-7/16	SPAW2215-207N1 FSPAW2215-207N1	SAF22515X2.7/16 FSAF22515X2.7/16
2-1/2	SPAW2215-208N1 FSPAW2215-208N1	SAF22515X2.1/2 FSAF22515X2.1/2
2-15/16	SPAW2217-215N1 FSPAW2217-215N1	SAF22517X2.15/16 FSAF22517X2.15/16
3	SPAW2217-300N1 FSPAW2217-300N1	SAF22517X3 FSAF22517X3
3-7/16	SPAW2220-307N1 FSPAW2220-307N1	SAF22520X3.7/16 FSAF22520X3.7/16
3-1/2	SPAW2220-308N1 FSPAW2220-308N1	SAF22520X3.1/2 FSAF22520X3.1/2
3-15/16	SPAW2222-315N1	SAF22522X3.15/16
4	SPAW2222-400N1	SAF22522X4
4-3/16	SPAW2224-403N1	SAF22524X4.3/16
4-1/4	SPAW2224-404N1	SAF22524X4.1/4
4-7/16	SPAW2226-407N1	SAF22526X4.7/16
4-1/2	SPAW2226-408N1	SAF22526X4.1/2
4-15/16	SPAW2228-415N1	SAF22528X4.15/16
5	SPAW2228-500N1	SAF22528X5
5-7/16	SPAW2232-507N1	SAF22532X5.7/16
5-1/2	SPAW2232-508N1	SAF22532X5.1/2

	Link-Belt	Dodge	
	Adapter Mount	Adapter Mount Fixed	Adapter Mount Fixed
	PLB6831R	P2B511-USAF-115TT	P2B511-USAF-115LER
	PLB6832R	P2B511-USAF-200TT	P2B511-USAF-200LER
	PLB6835R	P2B513-USAF-203TT	P2B513-USAF-203LER
	-	P2B513-USAF-204TT	P2B513-USAF-204LER
	-	P2B513-USAF-206TT	P2B513-USAF-206LER
	PLB6839R PLB6839FR	P2B515-USAF-207TT P4B515-USAF-207TT	P2B515-USAF-207LER P4B515-USAF-207LER
	-	P2B515-USAF-208TT P4B515-USAF-208TT	P2B515-USAF-208LER P4B515-USAF-208LER
	PLB6847R PLB6847FR	P2B517-USAF-215TT P4B517-USAF-215TT	P2B517-USAF-215LER P4B517-USAF-215LER
	PLB6848R PLB6848FR	P2B517-USAF-300TT P4B517-USAF-300TT	P2B517-USAF-300LER P4B517-USAF-300LER
	PLB6855R PLB6855FR	P2B520-USAF-307TT P4B520-USAF-307TT	P2B520-USAF-307LER P4B520-USAF-307LER
	PLB6856R PLB6856FR	P2B520-USAF-308TT P4B520-USAF-308TT	P2B520-USAF-308LER P4B520-USAF-308LER
	PLB6863FR	P4B522-USAF-315TT	P4B522-USAF-315LER
	PLB6864FR	P4B522-USAF-400TT	P4B522-USAF-400LER
	PLB6868FR	P4B524-USAF-403TT	P4B524-USAF-403LER
	-	P4B524-USAF-404TT	P4B524-USAF-404LER
	PLB6871FR	P4B526-USAF-407TT	P4B526-USAF-407LER
	PLB6872FR	P4B526-USAF-408TT	P4B526-USAF-408LER
	PLB6879FR	P4B528-USAF-415TT	P4B528-USAF-415LER
	PLB6880FR	P4B528-USAF-500TT	P4B528-USAF-500LER
	PLB6887FR	P4B532-USAF-507TT	P4B532-USAF-507LER
	-	P4B532-USAF-508TT	P4B532-USAF-508LER



Since 1918, NTN has been a trusted OE manufacturer of high-performing bearing products that increase companies' productivity and efficiency.

- NTN has been the world's broad-line bearing manufacturer for nearly 100 years.
- NTN has the largest bearing manufacturing footprint in the United States.
- NTN is the largest supplier of American-made products to the construction and mining industries.
- NTN is a major supplier to over two-thirds of the world's "Fortune 500" manufacturing companies.
- More cars worldwide ride on NTN bearings and drivetrains than any other manufacturer's product.



◀ NTN was the first bearing manufacturer to be awarded the prestigious Deming Prize for recognition of its quality products and systems.

Beyond Bearings

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Trouble-shooting. And more.

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Technical Training Unit

On-site, mobile training unit offering specialized, hands-on instruction from NTN engineers



Product Training School

Three days of in-depth instruction from NTN engineers at NTN headquarters
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eKnowledge

WEB-BASED TRAINING PROGRAM

Six online product training modules covering different bearing types and nomenclature
(www.ntnamerica.com/eknowledge)



NTN Bearing Finder

Customizable search tool featuring exhaustive data sets, comprehensive part interchanges and interactive CAD drawings
(bearingfinder.ntnamerica.com)



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