

Needle Bearings & Tolerance Ring



Metro Auto Industrial Inc.

Toll Free: 1-800-263-8761

Dimension Reference



Closed End



Open Side



Open End



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Needle Bearing by ID Size

Metro#	ID	OD	Width	Page
8-061008	6.45	10.04	7.80	5
8-081207	8.40	12.00	7.70	5
8-081410	8.40	13.98	9.90	5
8-091214	9.05	11.75	13.65	5
8-091213	9.40	11.75	12.60	5
8-091408	9.88	14.30	7.72	5
8-101413	10.25	13.80	12.63	6
8-111514	11.00	15.50	14.30	6
8-111613	11.35	15.95	12.60	6
8-121610	12.35	16.04	9.90	6
8-142020	14.50	20.00	19.88	6
8-141817	14.65	18.00	16.89	6
8-152116	15.20	21.00	15.88	7
8-152112	15.60	21.03	11.85	7
8-172417	17.00	23.80	17.48	7
8-172431	17.00	23.89	31.67	7

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Needle Bearing by OD Size

Metro#	OD	ID	Width	Page
8-061008	10.04	6.45	7.80	5
8-091214	11.75	9.05	13.65	5
8-091213	11.75	9.40	12.60	5
8-081207	12.00	8.40	7.70	5
8-101413	13.80	10.25	12.63	6
8-081410	13.98	8.40	9.90	5
8-091408	14.30	9.88	7.72	5
8-111514	15.50	11.00	14.30	6
8-111613	15.95	11.35	12.60	6
8-121610	16.04	12.35	9.90	6
8-141817	18.00	14.65	16.89	6
8-142020	20.00	14.50	19.88	6
8-152116	21.00	15.20	15.88	7
8-152112	21.03	15.60	11.85	7
8-172417	23.80	17.00	17.48	7
8-172431	23.89	17.00	31.67	7

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Needle Bearing	Needle Bearing	Needle Bearing
 8-061008 Needle Bearing Open End For: Bosch 108 Series PMGR; Ford PMGR Starters-Planetary Gear ID: 6.45mm OD: 10.04mm Width: 7.80mm Replaces: Ref: 8-203, 1000-8203, 130-05016 Lester: 16956, 16956, 16956, 16976, 16980, 16980, 16980, 17011, 17013, 17023, 17039, 17039, 17124, 17135, 17140, 17148, 17163, 17163, 17164, 17210, Note:	 8-081410 Needle Bearing Open End For: ID: 8.40mm OD: 13.98mm Width: 9.90mm Replaces: Ref: HK081410 Lester: Note:	 8-091214 Needle Bearing Open Side For: ID: 9.05mm OD: 11.75mm Width: 13.65mm Replaces: Ref: K091214 Lester: Note:
 8-081207 Needle Bearing Open End For: Delco PG100 & PG150-Drive Shaft ID: 8.40mm OD: 12mm Width: 7.70mm Replaces: Ref: 8-125, 1000-8125, 130-05041 Lester: 17972, 30210, 30368, 31247, 33308, 33356, 6401, 6401, 6432, 6433 Note: Delco 10465021, 10465022, 10465067, 21020892, 21020893, 21021366, 21021648, 88927881, 9000751, 9000758, 9000785, 9000791, 9000802	 8-091213 Needle Bearing Open Side For: ID: 9.40mm OD: 11.75mm Width: 12.60mm Replaces: Ref: K091213 Lester: Note:	 8-091408 Needle Bearing Open End For: Delco PG100, PG150, PG150S, PG200 & PG250 ID: 9.88mm OD: 14.30mm Width: 7.72mm Replaces: Delco 9440920 Ref: 8-113, 1000-8113, 130-05007 Lester: 32505 Note:

Needle Bearing	Needle Bearing	Needle Bearing
 8-101413 Needle Bearing Open Side For: ID: 10.25mm OD: 13.80mm Width: 12.63mm Replaces: Ref: K101413 Lester: Note:	 8-111613 Needle Bearing Open End For: Delco 5MT, SD250, SD255, SD260 Series DD Starters ID: 11.35mm OD: 15.95mm Width: 12.60mm Replaces: Delco 10469066, 9441607 Ref: 8-118, 130-05012 Lester: 6308, 6331, 6473 Note:	 8-141817 Needle Bearing Closed End For: ID: 14.65mm OD: 18.00mm Width: 16.89mm Replaces: Ref: BK141817RS (277) Lester: Note:
Photo Coming Soon 8-111514 Needle Bearing Closed End For: Denso DD, PLGR; Hitachi DD Starters - DE Housing ID: 11.00mm OD: 15.50mm Width: 14.30mm Replaces: Ref: 8-8200, 130-05031 Lester: 17057, 17142, 17203, 17252, Note: 17253, 17604, 17679, 17680, 17703, 17805, 17806, 17850, 17957, 18011, 18152, 18184, 18414, 18417, 18426, 18427, 18512, 18982, 18985, 19615, 19749, 19786, 19787, 30492, 30580, 30765, 30982, 31345, 32451, 32452, 6744	 8-121610 Needle Bearing Open End For: Bosch PLGR, PMGR; Delco PMGR; Ford 4 in. Mod, 4-1/2 in. Mod, OSGR, PMGR Start- ers ID: 12.35mm OD: 16.04mm Width: 9.90mm Replaces: Ref: 8-201, 1000-8201, 130-05014 Lester: Note:	 8-142020 Needle Bearing Closed End For: ID: 14.50mm OD: 20.00mm Width: 19.88mm Replaces: Ref: BK14020RS (273) Lester: Note:

Needle Bearing	Needle Bearing	Needle Bearing
 8-152112 Needle Bearing Open End For: ID: 15.60mm OD: 21.03mm Width: 11.85mm Replaces: Ref: HK1512, 130-05019 Lester: Note:	Photo Coming Soon 8-172417 Needle Bearing Closed End For: ID: 17.00mm OD: 23.80mm Width: 17.48mm Replaces: Chrysler 3755184; Delco 9436831; Ford D2OZ-10-A304-A Ref: 8-101, 130-05000 Lester: Note:	
 8-152116 Needle Bearing Closed End For: ID: 15.20mm OD: 21.00mm Width: 15.88mm Replaces: Ref: BK152116RS (275) Lester: Note:	 8-172431 Needle Bearing Closed End For: Delco 20SI, 21SI, 22SI, 27SI/ Type 200, 29SI, 40SI Series IR/EF Alternators ID: 17.00mm OD: 23.89mm Width: 31.67mm Replaces: Delco 7451782, 9437171 Ref: 8-109, 130-05003 Lester: Note:	

Needle Bearing	Needle Bearing	Needle Bearing

Manufacturers and Supplier names and their part numbers are for reference use only.

Delco	Delco	Delco
46-15060 Tolerance Ring For: Delco CS121, CS130 Series Alternators Replace: 10469356 Dimension: 11.5mmL Ref: 46-1560 Note: Fits to #6000 Bearing Bearing Dim: 10mmIDx26mmODx8mmW 46-15072 Tolerance Ring For: Delco AD230, AD237, AD244 Alternators Replace: 10494485 Dimension: 35mmIDx37mmODx12.7mm L Ref: 46-1572 Note: Bearing Dim:	46-15062 Tolerance Ring For: Delco CS130 Alternators Replace: 10473712 Dimension: 26mmIDx28mmODx9.5mmL Ref: 46-1562 Note: Fits to #6000 & 62000 Bear- ing Bearing Dim: 10mmIDx26mmODx8mmW	

Bosch	Bosch	Bosch
 46-91001 Tolerance Ring For: Bosch IR/IF Alternators Replace: Bosch 1 120 591 076, 1 120 591 103 Dimension: 16.5mmL Ref: 46-91552, AB-13248 Note: Bearing Dim: 37mmIDx40mmODx12mmW	 46-91003 Tolerance Ring For: Bosch ER/EF, IR/EF Alternators Replace: Bosch 1 120 591 075 Dimension: 42mmL Ref: 46-91551 Note: Bearing Dim: 32mmIDx35mmODx42mmW	 46-91037 Tolerance Ring For: Bosch ER/EF, IR/EF Alternators Replace: Bosch F 00M 146 900 Dimension: 35.5mmIDx35mmBearing OD, 38mm Bore Ref: 46-91553, AB-13295A Note: Bearing Dim:
 46-91002 Tolerance Ring For: Bosch ER/EF, IR/EF Alternators Replace: Bosch 1 120 591 053, 1 120 591 082 Dimension: 18mmL Ref: 46-91550, AB-13169 Note: Bearing Dim: 32mmIDx35mmODx28mmW	 46-91036 Tolerance Ring For: Bosch Water Cool Alternators Replace: Dimension: 40mmIDx43mmODx16.7mmW Ref: AB-13248, W110-72, ABO2207 Note: Bearing Dim:	

Denso	Denso	Denso
 46-82247 Tolerance Ring For: Denso Hair Pin Alternators Replace: Dimension: 35mm ID, 37mm OD, 13mm Height (Bearing Thickness) 14mm Total Thickness Ref: AT-13366A Note: Lester 14486, 14487 Bearing Dim:		

Paris Rhone	Paris Rhone	Paris Rhone
 46-91013 Tolerance Ring For: Paris Rhone A13R, A14R Alternators Replace: Dimension: 35mm OD Ref: 46-94408 Note: Used on #6201 Bearing Bearing Dim: 12mmIDx32mmODx10mmW		
 46-944007 Tolerance Ring-Cover For: Paris & Valeo Alternators Replace: Paris Rhone 105299, 590629, Valeo 105299, 590629 Dimension: 34mm OD Ref: 46-94407 Note: Used with #6201 Bearing Bearing Dim: 12mmIDx32mmODx10mmW		

Valeo	Valeo	Valeo
Photo Coming Soon 46-944001 Tolerance Ring For: Valeo Alternators Replace: Dimension: 35mmIDx37.3mmODx 19.3mm Height Ref: 46-94435 Note: Used with #6202 Bearing. Bearing Dim:		



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