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NEWSLETTER B8





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INTRODUCTION

Hints to the use of this newsletter

In order to offer to our customers correct data in this catalogue, all of the references have been assembled and controlled with much care. However, we cannot be held responsible for the consequences of possible errors or omissions. Furthermore we reserve the right to make necessary or technically reasonable changes in the specification of the bearings. NPR of Europe GmbH is OE-supplier to many well-known engine manufacturers. This successful relationship started in 1998 with us being supplier for the bearings of the ACTROS series 500.

The bearings may be fitted without altering the housings or shafts. The design of material and dimensions is based on the original equipment of the engine manufacturers. supply until our stocks last, on the other hand newly added bearings may be available from stock. Please ask our sales staff if you are looking for bearings you may not find in this catalogue or for racing, compressors or any other special applications. Serial numbers and trademarks as well as model and producer's names are only used for reference and transparency.

All orders are accepted and executed according to our General Terms and Conditions, exceptions need our written confirmation. Reprints of and alterations to this catalogue need our written acceptance.

Certification

As we feel sure that our products as well as our service will withstand every exam, we gladly have our quality confirmed by external auditors. For this reason we are certified according to ISO/TS 16949:2016 and ISO 9001:2015. So you may always rely on our service and the quality of our products.

Oversize marking

code	oversize	code	oversize
00	STD	21	0,50 mm
01	.001	22	.020
02	0,05 mm	23	0,60 mm
03	.002	24	0,65 mm
04	0,06 mm	25	0,70 mm
05	.0025	26	0,75 mm
06	.003	27	.030
07	0,08 mm	28	0,80 mm
08	0,10 mm	29	1,00 mm
09	0,12 mm	30	.040
10	0,125 mm	31	1,25 mm
11	.005	32	.050
12	0,15 mm	33	1,50 mm
13	.0075	34	.060
14	0,20 mm	35	2,00 mm
15	0,25 mm	99	Semi
16	.010		
17	0,30 mm		
18	0,35 mm		
19	.015		
20	0,40 mm		

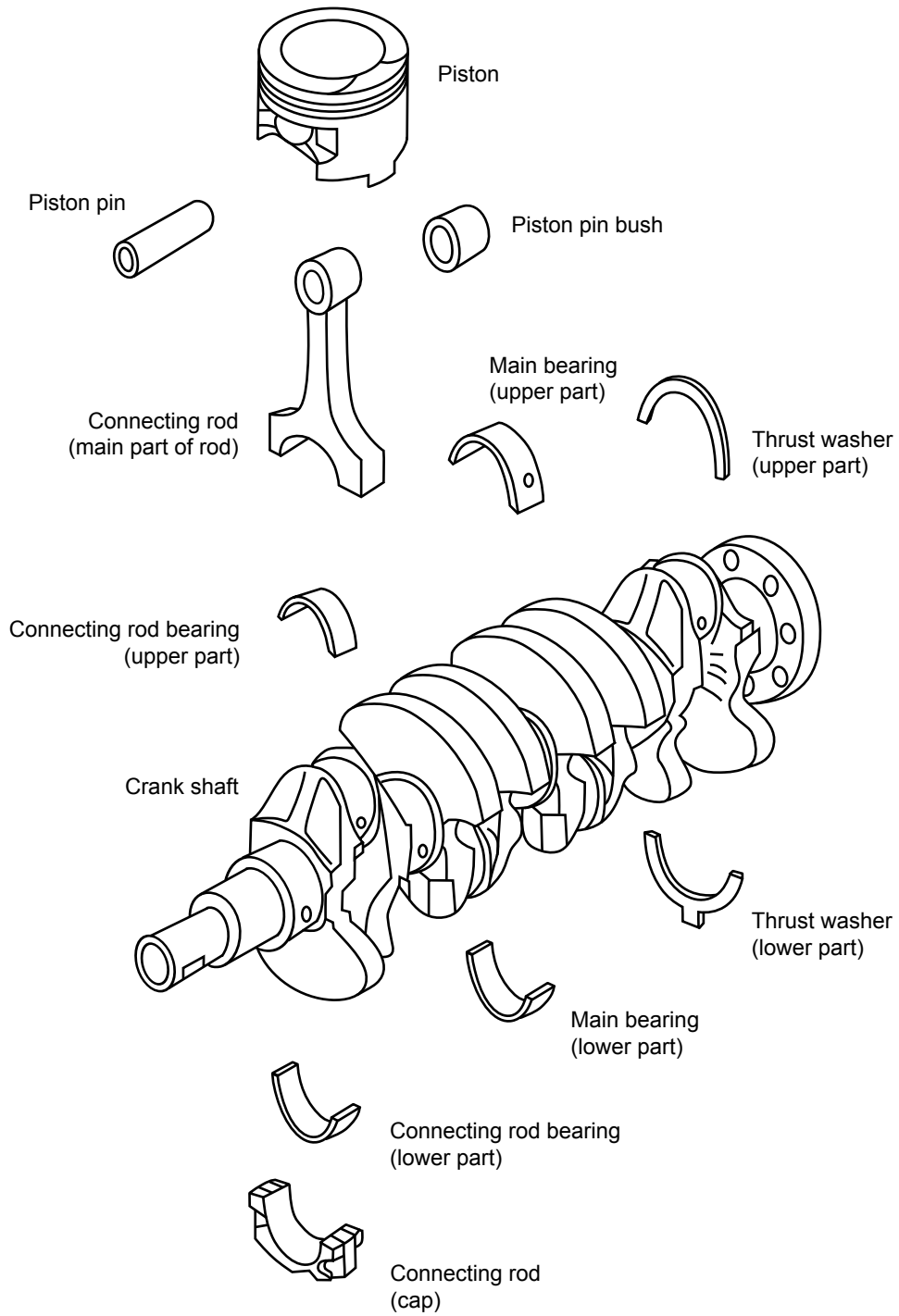
Numerical code part number / order number

	old		new
Main bearing	60	→	180
Conrod bearing	61	→	181
Thrust washer	62	→	182
Camshaft bearing	63	→	183
Small-end bush	64	→	184

Materials

NE reference	Material
SR	Lead bronze alloy
SSI	Steel back with sintered lead bronze alloy
S3S	Steel back with leaded bronze and electroplated overlay
SAL	Steel back plated with aluminium alloy
S32S	S3S + SAL
SL	Lead bronze alloy
SPVD	Steel back with leaded bronze and sputter overlay
S4S	"Cerrox", can be used as a sputtered replacement
AL	Aluminium alloy
Nefrox	Steel back plated with aluminium alloy polymer sliding layer

Engine structure diagram

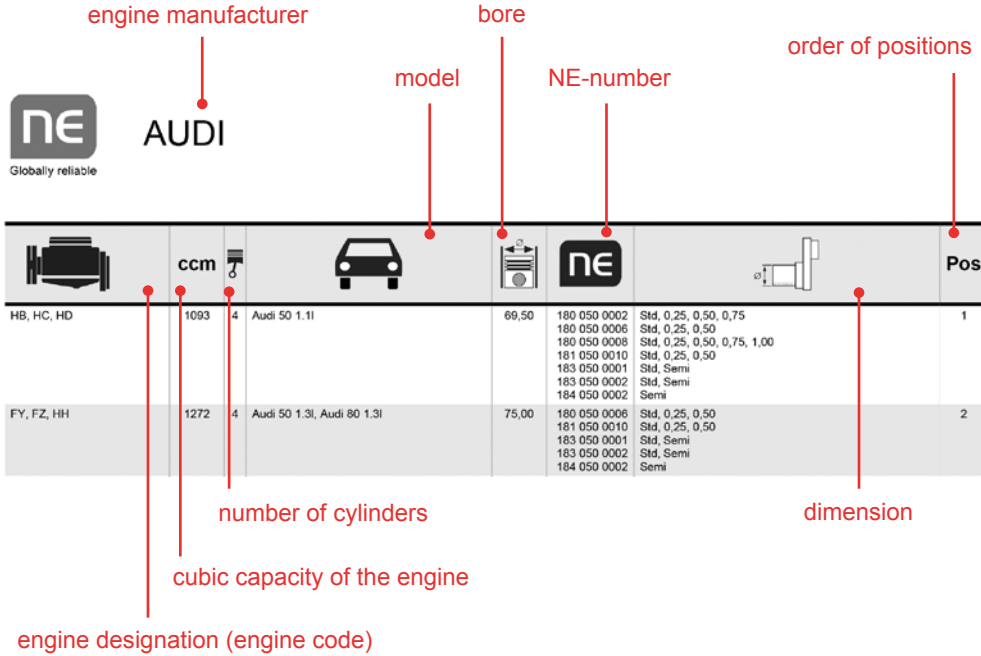


How to use this newsletter correctly






Catalogue part

At the beginning of the relevant engine manufacturer, you may find the engine bearing article number(s) matching to your engine code and vehicle model.

The position number is assorted in an alphanumeric ascending order according to the bore diameter of the engine and leads you to the correct product data on the next chapter.



The diagram illustrates the structure of an engine bearing article number. It shows a table with columns for engine manufacturer, model, bore, NE-number, and order of positions. Red lines point from labels to specific parts of the table.

engine manufacturer	model	bore	NE-number	order of positions	
NE Globally reliable AUDI					
					
HB, HC, HD	ccm 1093 4 Audi 50 1.1i	69,50	180 050 0002 180 050 0006 180 050 0008 181 050 0010 183 050 0001 183 050 0002 184 050 0002	Std, 0,25, 0,50, 0,75 Std, 0,25, 0,50 Std, 0,25, 0,50, 0,75, 1,00 Std, 0,25, 0,50 Std, Semi Semi	1
FY, FZ, HH	1272 4 Audi 50 1.3i, Audi 80 1.3i	75,00	180 050 0006 181 050 0010 183 050 0001 183 050 0002 184 050 0002	Std, 0,25, 0,50 Std, 0,25, 0,50 Std, Semi Std, Semi Semi	2

Additional labels in the diagram:


- number of cylinders (points to '4')
- cubic capacity of the engine (points to '1093')
- engine designation (engine code) (points to 'HB, HC, HD')
- dimension (points to the dimension icon)






Product data

According to the position number from the catalog part, you may find here the technical data and descriptions of all relevant article numbers.

Position
In the following catalogue part the positions are assorted by engine bore.

engine bore



										Set Composition / QTY	
13	77,00										
MB/HL 1, 2, 3, 4, 5	5 Pairs	45,024	48,674	17,900	SSI	180 037 0014 00 17 21 28	5		5		
CB/PL 1, 2, 3, 4	4 Pairs	45,033	48,019	19,700	S32S	181 037 0022 00 17 21	4		4		
TW/A 1	2 Halves	50,500 50,750	70,000 70,250		SAL	182 037 0006 00	2				

units in packing

bearing position

shaft dimension






bearing width

housing dimension

material

NE-number

set composition – QTY

	ccm					Pos.	
B38 A12 A	1198	3	MINI (F55) One MINI (F56) One MINI Cabriolet (F57) One	78,00	180 007 0018 181 007 0095	Std, 0,25, 0,50 Std, 0,25, 0,50	1
B38 S15 A	1499	3	X2 (F39) sDrive 18 i/ ActiveFlex	82,00	181 007 0095	Std, 0,25, 0,50	2
B36 A15 A	1499	3	MINI (F55) Cooper MINI (F56) Cooper MINI Cabriolet (F57) Cooper MINI CLUBMAN (F54) Cooper MINI COUNTRYMAN (F60) Cooper	82,00	180 007 0018 181 007 0095	Std, 0,25, 0,50 Std, 0,25, 0,50	1
B38 A15 A	1499	3	2 Active Tourer (F45) 216i, 218i, 225xe Plug-in Hybrid 2 Gran Tourer (F46) 216i, 218i 2 Gran Coupe (F44) 218i X1 (F48) sDrive 18 i X2 (F39) sDrive 18 i MINI CLUBMAN (F54) One MINI COUNTRYMAN (F60) Cooper ALL4/ SE/ SE ALL4	82,00	180 007 0018 181 007 0095	Std, 0,25, 0,50 Std, 0,25, 0,50	1









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1	78,00																		
MB/HL 1, 2, 3	3 Pairs	44,984 45,000	50,000 50,016	18,300	SAL	180 007 0018 00 15	3		3		1		1						
MB/HL 4	1 Pair	44,984 45,000	50,000 50,016	24,950	SAL														
CB/PL 1, 2, 3	3 Pairs	44,975 44,992	48,600 48,616	19,600	Nefrox	181 007 0095 00 15 21													

2	82,00																		
CB/PL 1, 2, 3	3 Pairs	44,975 44,992	48,600 48,616	19,600	Nefrox	181 007 0095 00 15 21													

	ccm 					Pos.
1VD-FTV	4461 8	LX (_J2_) 450d (VDJ201)	86,00	180 096 0038	Std, 0,25, 0,50	1









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							Set Composition / QTY					
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
1	86,00																		
MB/HL 1, 2	2 Pairs	74,990 75,000	79,000 79,019	22,500	S3S	180 096 0038 00 15	2		2		3		3						
MB/HL 3, 4, 5	3 Pairs	74,990 75,000	79,000 79,019	20,500	S3S	21													







	ccm						Pos.
D 0834 LFL 50 D 0834 LFL 53 D 0834 LFL 60 D 0834 LFL 63	4580	4	TGL I 7.150 8.150	108,00	181 031 0008	Std, 0,25, 0,50	1
D 0834 LFL 51 D 0834 LFL 54 D 0834 LFL 64 D 0834 LFL 75	4580	4	TGL I 7.180 8.180 10.180 12.180	108,00	181 031 0008	Std, 0,25, 0,50	1
D 0834 LFL 52	4580	4	TGL I 8.210 10.210 12.210	108,00	181 031 0008	Std, 0,25, 0,50	1
D 0834 LFL 61	4580	4	TGL I 7.180 8.180	108,00	181 031 0008	Std, 0,25, 0,50	1
D 0834 LFL 62 D 0834 LFL 65	4580	4	TGL I 12.220	108,00	181 031 0008	Std, 0,25, 0,50	1
D 0834 LFL 66	4580	4	TGL I 7.150 8.150 TGL II 7.150 8.150 10.150 12.150	108,00	181 031 0008	Std, 0,25, 0,50	1
D 0834 LFL 67	4580	4	TGL I 7.180 8.180 10.180 12.180 TGL II 7.180 8.180 10.180 12.180	108,00	181 031 0008	Std, 0,25, 0,50	1
D 0834 LFL 68	4580	4	TGL I 8.220 10.220 12.220 TGL II 7.220 8.220 10.220 12.220	108,00	181 031 0008	Std, 0,25, 0,50	1
D 0834 LFL 76	4580	4	TGL I 8.220 12.220	108,00	181 031 0008	Std, 0,25, 0,50	1
D 0836 LFL 51	6781	6	TGM I 12.280 13.280 15.280 16.280 18.280 26.280	108,00	181 031 0008	Std, 0,25, 0,50	1
D 0836 LFL 52	6781	6	TGM I 18.330 26.330	108,00	181 031 0008	Std, 0,25, 0,50	1
D 0836 LFI 53	6781	6	TGL I 8.240 10.240 12.240 TGM I 12.240 13.240 15.240 16.240 18.240 22.240	108,00	181 031 0008	Std, 0,25, 0,50	1
D 0836 LFL 54	6781	6	TGM I 12.280 13.280 15.280 16.280 18.280 22.280 26.280	108,00	181 031 0008	Std, 0,25, 0,50	1
D 0836 LFL 55	6781	6	TGM I 15.330 18.330 26.330	108,00	181 031 0008	Std, 0,25, 0,50	1



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
	ccm						Pos.
D 0836 LFI 60	6781	6	TGL I 12.250 TGM I 16.250 18.250	108,00	181 031 0008	Std, 0,25, 0,50	1
D 0836 LFL 61	6781	6	HOCL-NL 14.290 TGM I 16.290	108,00	181 031 0008	Std, 0,25, 0,50	1
D 0836 LFL 63	6781	6	TGL I 8.250 10.250 12.250 TGM I 12.250 13.250 15.250 16.250 18.250 22.250	108,00	181 031 0008	Std, 0,25, 0,50	1
D 0836 LFL 68 D 0836 LFL AC	6781	6	TGL II 7.340 8.340 10.340 12.340 TGM I 15.340 18.340 26.340 TGM II 12.340 13.340 15.340 18.340 19.340 26.340	108,00	181 031 0008	Std, 0,25, 0,50	1
D 0836 LFL 69 D 0836 LFL 75	6781	6	TGL I 8.250 12.250 10.250 TGM I 12.250 15.250 16.250 18.250 22.250	108,00	181 031 0008	Std, 0,25, 0,50	1
D 0836 LFL 70 D 0836 LFL 76	6781	6	TGM I 12.290 15.290 16.290 18.290 22.290 26.290	108,00	181 031 0008	Std, 0,25, 0,50	1
D 0836 LFL 71	6781	6	TGM I 15.340 18.340 26.340	108,00	181 031 0008	Std, 0,25, 0,50	1
D 0836 LFI 77	6781	6	TGM I 15.340 18.340 26.340	108,00	181 031 0008	Std, 0,25, 0,50	1
D 0836 LFL AA	6781	6	TGL II 7.250 8.250 10.250 12.250 TGM I 16.250 18.250 TGM II 12.250 13.250 15.250 18.250 19.250 26.250	108,00	181 031 0008	Std, 0,25, 0,50	1

	ccm						Pos.
D 0836 LFL AB	6781	6	TGL II 7.290 8.290 10.290 12.290 TGM I 16.290 TGM II 12.290 13.290 15.290 18.290 19.290 19.290	108,00	181 031 0008	Std, 0,25, 0,50	1
D 0836 LOH 51	6781	6	HOCL 14.280 18.280 NL LION'S CITY 19.280 LION'S CLASSIC NL 280 NM 283 SÜ 283 OPTARE TEMPO X1060 X1130 X1200 X1260	108,00	181 031 0008	Std, 0,25, 0,50	1
D 0834 LFL 78	4580	4	TGL I 7.190 8.190 10.190 12.190	108,00	181 031 0008	Std, 0,25, 0,50	1
D 0834 LOH 40 D 0834 LOH 52 D 0834 LOH 53 D 0834 LOH 60	4580	4	Bus Applications	108,00	181 031 0008	Std, 0,25, 0,50	1
D 0834 LOH 50	4580	4	OPTARE SOLO SR M 890 M 960 OPTARE VERSA V 1040 V 1110	108,00	181 031 0008	Std, 0,25, 0,50	1
D 0834 LOH 51	4580	4	GÜLERYÜZ COBRA GD 160 CITY BUS	108,00	181 031 0008	Std, 0,25, 0,50	1
D 0834 LOH 61	4580	4	GÜLERYÜZ COBRA GD 160 CITY BUS	108,00	181 031 0008	Std, 0,25, 0,50	1
D 0836 LOH 52 D 0836 LOH 56	6781	6	HOCL 12.240 NL 14.240 NL 18.240 NL LION'S CITY 05/04-10/09 NL 240 NM 243 NEOPLAN Airliner N9112 N9112 L N9112 K N9122 N9122 L	108,00	181 031 0008	Std, 0,25, 0,50	1
D 0836 LOH 55	6781	6	HOCL 14.280 18.280 NL 24.280 NL 280 NM 283 SL II 283 SÜ 283 LION'S CITY 19.280 GÜLERYÜZ COBRA GL 9L GD 272	108,00	181 031 0008	Std, 0,25, 0,50	1
D 0836 LOH 60	6781	6	HOCL 18.290 NL 24.290 NL 290 NM 293 SÜ 293 LION'S INTERCITY LION'S CITY A 35/ A66 LION'S CITY 19.290	108,00	181 031 0008	Std, 0,25, 0,50	1





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	ccm						Pos.
D 0836 LOH 61	6781	6	HOCL 14.250 NL 18.250 NL, 18.250 SKD(SL) NL 250 NM 253 LION'S CITY A 35/ A 66	108,00	181 031 0008	Std, 0,25, 0,50	1
D 0836 LOH 62 D 0836 LOH 63	6781	6	HOCL 12.260 14.260 18.260 24.260 NL 260 SÜ 263 LION'S CITY LION'S CLASSIC 260	108,00	181 031 0008	Std, 0,25, 0,50	1
D 0836 LOH 64	6781	6	HOCL 24.290 NL 290 LION'S INTERCITY LION'S CITY 19.290 GÜLERYÜZ COBRA GL 9L GD 272	108,00	181 031 0008	Std, 0,25, 0,50	1
D 0836 LOH 65	6781	6	FOC 12.250 HOCL 24.250 NL 250 GÜLERYÜZ COBRA GL9 OTOKAR VECTIO DORUK 250LE 250S 250T 250U TEMSA MD 9/ 9C	108,00	181 031 0008	Std, 0,25, 0,50	1

							Set Composition / QTY						
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1	108,00	CB/PL 1	1 Pair	69,981 70,000	74,000 74,019	29,000	SPVD	181 031 0008 00 15 21	1		1							
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MERCEDES-BENZ

	ccm					Pos.	
OM 651.940, OM 651.950, OM 651.955 OM 651.956, OM 651.957, OM 651.958	2143	4	Sprinter (B905/ B906/ B907/ B910) Viano (W639) Vito (W639) Vito (W447) V-Klasse (W447)	83,00	180 010 0025 180 010 0026	Std, 0,25, 0,50 Std, 0,25	1

							Set Composition / QTY
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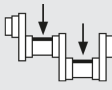











1	83,00																
MB/HL 1, 2, 3, 4, 5	5 Pairs	59,940 59,965	64,000 64,019	20,500	SPVD	180 010 0025 00 15 21	5		5								
MB/HL 1, 2, 3, 4, 5	5 Pairs	59,940 59,965	64,500 64,519	20,500	SPVD	180 010 0026 00 15	5		5								









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TOYOTA

	ccm					Pos.
1VD-FTV	4461	8	LAND CRUISER 200 (_J2_) 4.5 D4-D (VDJ200) LAND CRUISER Pick-up (_J7_, _JL7_) 4.5 TD 32V 4x4 (VDJ79, VDJ79R) LAND CRUISER (_J7_, _JL7_) CAREVACA 4.5 TD 32V 4x4 (VDJ76, VDJ78, VDJ76R, VDJ78R)	86,00	180 096 0038 Std, 0,25, 0,50 181 096 0056 Std, 0,25, 0,50	1

									Set Composition / QTY											
1	86,00																			
MB/HL 1, 2	2 Pairs	74,990 75,000	79,000 79,019	22,500	S3S	180 096 0038 00 15	2		2		3		3							
MB/HL 3, 4, 5	3 Pairs	74,990 75,000	79,000 79,019	20,500	S3S	21														
CB/PL 1, 2, 3, 4, 5, 6, 7, 8	8 Pairs	54,990 55,000	58,000 58,019	17,500	T780	181 096 0056 00 15 21	16													

	ccm						Pos.
D 0834 190	4580	4	WORKER 13.190 / 15.190 / 17.190	108,00	181 031 0008	Std, 0,25, 0,50	1
D 0834 LFL 65	4580	4	WORKER 17.230	108,00	181 031 0008	Std, 0,25, 0,50	1
D 0836 280	6871	6	WORKER 26.260	108,00	181 031 0008	Std, 0,25, 0,50	1

									Set Composition / QTY									
1	108,00	CB/PL 1	1 Pair	69,981 70,000	74,000 74,019	29,000	SPVD	181 031 0008 00 15 21	1		1							

LAGERSCHALEN
COUSSINETS
COJINETES



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