

Solenoids

Delphi	Original & FLAG no.	Delphi	Original & FLAG no.	Bosch	Original & FLAG no.	Cummins	Original & FLAG no.	Denso	Original & FLAG no.
	7167-620A 82 1001 12V		9108-073A 82 1551 12V		0 330 001 016 82 1008 24V		3935649 82 1745 12V		096030-0170 82 1012 24V
	7167-620B 82 1002 12V		9108-153A 82 1664 12V		0 330 001 019 82 1144 24V		3936026 82 1766 12V		096030-0160 82 1011 12V
	7180-49D 82 1003 24V		9108-154B 82 1668 12V		0 330 001 018 82 1007 12V		3035344 82 0731 24V		26214 82 0698 12V
	7167-620D 82 1004 12V		9108-147C 82 1669 12V		0 330 001 026 82 1147 0 330 001 048		3035342 82 0494 12V		3054611 82 0733 12V
	7180-49A 82 1005 24V		9108-152A 82 1821 12V		0 330 106 018 82 1149 12V		0 330 001 027 82 1153 24V		3054610 82 0732 24V
	9009-049 82 1006 12V		0 330 106 017 82 1150 12V 82 2011		0 330 106 017 24V 82 1150 12V 82 2011		26387 82 0716 24V		

Diaphragm & Oilseals

Original & FLAG no.	Original & FLAG no.	Original & FLAG no.	Original & FLAG no.	Original & FLAG no.
2 420 503 012 81 0473 H 6mm	090580-0041 81 0737	1 420 283 001 81 1497 11x17x4	1 460 283 307 81 0506 20x31x7	81 1143 25x38x6,5
2 420 503 014 81 0562 H 8mm	155020-2120 81 0844	1 410 283 001 81 0003 17x28x7	2 460 283 001 81 1626 20x31x7,3	81 1630 10x19x5,3
2 420 503 017 81 0901 H 8mm	7034-19D 82 1089	1 460 283 301 81 0739 17x28x7	1 410 282 015 81 0841 25x25x7	F 00R 0PO 669 81 1640 25x36x7,3
2 420 503 019 81 0959 H 6mm	9 401 240 170 82 0724	1 460 283 312 81 1112 17x28x7,3	2 410 283 010 81 0071 30x42x6/6,7	F 00R 0PO 521 81 1643 25x37x7,3
1 460 503 304 81 0855 H 6mm	9 401 240 169 82 0652	949150-1620 81 0657 20x30x7	2 410 283 021 81 0234 30x62x4	
1 420 503 903 81 1382 Dia 69,5mm	155020-7920 81 1383	1 410 281 012 81 1574 20x30x7	2 410 283 018 81 0104 35x47x7/5,5	

Flag No.**Application****Type****Reference No.****Flag No.****Application****Type****Reference No.****DLLA P**

Scania	DLLA 155 P 230	0 433 171 188	37 1021
KHD	DLLA 150 P 232	0 433 171 190	37 1023
Cummins	DLLA 150 P 270	0 433 171 204	37 1031
Dresser	DLLA 155 P 273	0 433 171 205	37 1032
Dresser, Hyundai	DLLA 155 P 274	0 433 171 206	37 1044
Cummins	DLLA 155 P 277	0 433 171 208	37 1041
Volvo	DLLA 152 P 285	0 433 171 210	37 1043
Volvo	DLLA 145 P 286	0 433 171 211	37 1045
MAN	DLLA 146 P 166	0 433 171 214	37 1052
Scania	DLLA 155 P 306	0 433 171 221	37 1057
Volvo	DLLA 155 P 307	0 433 171 222	37 1061
Volvo	DLLA 152 P 313	0 433 171 224	37 1063
Iveco, Renault	DLLA 150 P 324	0 433 171 229	37 1066
Iveco, Renault	DLLA 150 P 326	0 433 171 231	37 1071
Volvo	DLLA 152 P 335	0 433 171 237	37 1074
KHD	DLLA 144 P 354	0 433 171 251	37 1076
KHD	DLLA 144 P 353	0 433 171 252	37 1082
KHD	DLLA 147 P 360	0 433 171 257	37 1084
Renault	DLLA 149 P 369	0 433 171 262	37 1089
Cummins	DLLA 140 P 384	0 433 171 271	37 1092
Volvo	DLLA 145 P 393	0 433 171 279	37 1100
Volvo	DLLA 145 P 392	0 433 171 280	37 1102
Iveco	DLLA 138 P 402	0 433 171 286	37 1104
Volvo	DLLA 138 P 403	0 433 171 287	37 1108
Volvo	DLLA 150 P 407	0 433 171 290	37 1111
John Deere	DLLA 148 P 408	0 433 171 291	37 1112
Mercedes	DLLA 142 P 417	0 433 171 297	37 1115
Mercedes	DLLA 142 P 418	0 433 171 298	37 1116
Mercedes	DLLA 142 P 419	0 433 171 299	37 1117
Mercedes	DLLA 134 P 422	0 433 171 303	37 1119
Volvo	DLLA 150 P 429	0 433 171 308	37 1123
Mercedes	DLLA 134 P 430	0 433 171 309	37 1127
Mercedes	DLLA 134 P 431	0 433 171 310	37 1128
Stry	DLLA 155 P 451	0 433 171 325	37 1130
MAN	DLLA 152 P 452	0 433 171 326	37 1131
KHD	DLLA 152 P 335	0 433 171 327	37 1134
Volvo	DLLA 148 P 466	0 433 171 335	37 1149
Volvo	DLLA 142 P 479	0 433 171 345	37 1156
Stry	DLLA 157 P 494	0 433 171 356	37 1157
Scania	DLLA 152 P 496	0 433 171 358	37 1158
MAN	DLLA 146 P 499	0 433 171 360	37 1159
Renault	DLLA 144 P 510	0 433 171 366	37 1165
VW	DLLA 148 P 513	0 433 171 369	37 1171
KHD	DLLA 140 P 517	0 433 171 371	37 1172
KHD	DLLA 144 P 521	0 433 171 385	37 1174
KHD	DLLA 144 P 527	0 433 171 390	37 1186



Scania	DLLA 155 P 230	0 433 171 188	37 1021
KHD	DLLA 150 P 232	0 433 171 190	37 1023
Cummins	DLLA 155 P 270	0 433 171 204	37 1031
Dresser	DLLA 155 P 273	0 433 171 205	37 1032
Dresser, Hyundai	DLLA 155 P 274	0 433 171 206	37 1044
Cummins	DLLA 155 P 277	0 433 171 208	37 1041
Volvo	DLLA 152 P 285	0 433 171 210	37 1043
Volvo	DLLA 145 P 286	0 433 171 211	37 1045
MAN	DLLA 146 P 166	0 433 171 214	37 1052
Scania	DLLA 155 P 306	0 433 171 221	37 1057
Volvo	DLLA 155 P 307	0 433 171 222	37 1061
Volvo	DLLA 152 P 313	0 433 171 224	37 1063
Iveco, Renault	DLLA 150 P 324	0 433 171 229	37 1066
Iveco, Renault	DLLA 150 P 326	0 433 171 231	37 1071
Volvo	DLLA 152 P 335	0 433 171 237	37 1074
KHD	DLLA 144 P 354	0 433 171 251	37 1076
KHD	DLLA 144 P 353	0 433 171 252	37 1082
KHD	DLLA 147 P 360	0 433 171 257	37 1084
Renault	DLLA 149 P 369	0 433 171 262	37 1089
Cummins	DLLA 140 P 384	0 433 171 271	37 1092
Volvo	DLLA 145 P 393	0 433 171 279	37 1100
Volvo	DLLA 145 P 392	0 433 171 280	37 1102
Iveco	DLLA 138 P 402	0 433 171 286	37 1104
Volvo	DLLA 138 P 403	0 433 171 287	37 1108
Volvo	DLLA 150 P 407	0 433 171 290	37 1111
John Deere	DLLA 148 P 408	0 433 171 291	37 1112
Mercedes	DLLA 142 P 417	0 433 171 297	37 1115
Mercedes	DLLA 142 P 418	0 433 171 298	37 1116
Mercedes	DLLA 142 P 419	0 433 171 299	37 1117
Mercedes	DLLA 134 P 422	0 433 171 303	37 1119
Volvo	DLLA 150 P 429	0 433 171 308	37 1123
Mercedes	DLLA 134 P 430	0 433 171 309	37 1127
Mercedes	DLLA 134 P 431	0 433 171 310	37 1128
Stry	DLLA 155 P 451	0 433 171 325	37 1130
MAN	DLLA 152 P 452	0 433 171 326	37 1131
KHD	DLLA 152 P 335	0 433 171 327	37 1134
Volvo	DLLA 148 P 466	0 433 171 335	37 1149
Volvo	DLLA 142 P 479	0 433 171 345	37 1156
Stry	DLLA 157 P 494	0 433 171 356	37 1157
Scania	DLLA 152 P 496	0 433 171 358	37 1158
MAN	DLLA 146 P 499	0 433 171 360	37 1159
Renault	DLLA 144 P 510	0 433 171 366	37 1165
VW	DLLA 148 P 513	0 433 171 369	37 1171
KHD	DLLA 140 P 517	0 433 171 371	37 1172
KHD	DLLA 144 P 521	0 433 171 385	37 1174
KHD	DLLA 144 P 527	0 433 171 390	37 1186

Flag No.**Application****Type****Reference No.****Flag No.****Application****Type****Reference No.****Flag P**

DLLA 152 P 531	MAN	37 1394
DLLA 152 P 566	MAN	37 1414
DLLA 144 P 568	KHD	37 1415
DLLA 152 P 571	Volvo	37 1432
DLLA 150 P 573	Scania	37 1434
DLLA 145 P 574	Cummins	37 1435
DLLA 152 P 571	Case	37 1444
DLLA 145 P 592	Scania	37 1448
DLLA 154 P 596	Mercedes	37 1450
DLLA 149 P 601	Scania	37 1451
DLLA 145 P 606	Cummins	37 1454
DLLA 145 P 609	Scania	37 1456
DLLA 149 P 622	Renault	37 1463
DLLA 155 P 657	DAF	37 1465
DLLA 145 P 609	Iveco	37 1468
DLLA 159 P 638	Mercedes	37 1473
DLLA 150 P 635	Scania	37 1470
DLLA 147 P 658	KHD	37 1478
DLLA 147 P 680	KHD	37 1495
DLLA 145 P 785	Volvo	37 1550
DLLA 156 P 819	Mercedes	37 1561
DLLA 150 P 847	Scania	37 1575
DLLA 150 P 848	Scania	37 1576
DLLA 154 P 866	MAN	37 1583
DLLA 155 P 872	Volvo	37 1584
DLLA 156 P 850	Mercedes	37 1578
DLLA 151 P 941	KHD	37 1624
DLLA 150 P 943	Mercedes	37 1628
DLLA 150 P 952	Case, Ford, New Holland	37 1632
DLLA 150 P 957	Mercedes	37 1634
DLLA 145 P 978	Chrysler, Jeep	37 1641
DLLA 150 P 1008	Cummins	37 1651
DLLA 147 P 1048	Mercedes	37 1679
DLLA 147 P 1049	Mercedes	37 1680
DLLA 150 P 1053	Cummins	37 1684
DLLA 148 P 1067	VW, Nissan	37 1693
DLLA 156 P 1114	Hyundai, Kia	37 1719
DLLA 150 P 1164	Mercedes	37 1741
DLLA 150 P 1197	Hyundai	37 1755
DLLA 147 P 1229	KHD	37 1779
DLLA 144 P 1249	MAN	37 1791
DLLA 142 P 1333	Iveco	37 1827
DLLA 142 P 1367	Hyundai	37 1847
DLLA 156 P 1419	Hyundai	37 1880
DLLA 154 PN 007	Isuzu	37 0027
DLLA 140 PN 204	Iseki	37 2380

9 432 612 494	DLLA 140 PN 254	Zexel
9 432 612 812	DLLA 143 PN 325	Zexel
9 432 612 843	DLLA 144 PN 309	Isuzu
F 019 121 180	DLLA 155 P 180	Weichai
F 019 121 223	DLLA 150 P 223	

37 2494	9 432 612 494	Zexel
37 2812	9 432 612 812	Zexel
37 2843	9 432 612 843	
37 1180	F 019 121 180	
37 1223	F 019 121 223	

37 2494	9 432 612 494	Zexel
37 2812	9 432 612 812	Zexel
37 2843	9 432 612 843	
37 1180	F 019 121 180	
37 1223	F 019 121 223	

37 2494	9 432 612 494	Zexel
37 2812	9 432 612 812	Zexel
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37 1180	F 019 121 180	
37 1223	F 019 121 223	

37 2494	9 432 612 494	Zexel
37 2812	9 432 612 812	Zexel
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37 1180	F 019 121 180	
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37 2494	9 432 612 494	Zexel
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37 2494	9 432 612 494	Zexel
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37 2494	9 432 612 494	Zexel
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37 2494	9 432 612 494	Zexel
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37 2494	9 432 612 494	Zexel
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37 2494	9 432 612 494	Zexel
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37 1223	F 019 121 223	

37 2494	9 432 612 494	Zexel
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37 2494	9 432 612 494	Zexel
37 2812	9 432 612 812	Zexel
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37 1180	F 019 121 180	
37 1223	F 019 121 223	

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37 1223	F 019 121 223	

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37 1223	F 019 121 223	

37 2494	9 432 612 494	Zexel
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37 1223	F 019 121 223	

37 2494	9 432 612 494	Zexel
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37 1180	F 019 121 180	
37 1223	F 019 121 223	

37 2494	9 432 612 494	Zexel
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37 2494	9 432 612 494	Zexel
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37 1180	F 019 121 180	
37 1223	F 019 121 223	

37 2494	9 432 612 494	Zexel
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37 1180	F 019 121 180	
37 1223	F 019 121 223	

37 2494	9 432 612 494	Zexel
37 2812	9 432 612 812	Zexel
37 2843	9 432 612 843	
37 1180	F 019 121 180	
37 1223	F 019 121 223	

37 2494	9 432 612 494	Zexel
37 2812	9 432 612 812	Zexel
37 2843	9 432 612 843	
37 1180	F 019 121 180	
37 1223	F 019 121 223	

37 2494	9 432 612 494	Zexel
37 2812	9 432 612 812	Zexel
37 2843	9 432 612 843	
37 1180	F 019 121 180	
37 1223	F 019 121 223	

37 2494	9 432 612 494	Zexel
37 2812	9 432 612 812	Zexel
37		

Flag No.**Application****Reference No.****Flag No.****Application****Reference No.****DLLAS**

0 433 271 121	DLL 145 S	34 F	Fiat	37 2121
0 433 271 137	DLL 145 S	4 F	Fiat	37 2137
0 433 271 145	DLL 145 S	35 F	Fiat	37 2145
0 433 271 146	DLL 145 S	20 F	Fiat	37 2146
0 433 271 150	DLLA 35 S	376	MAN, Renault	37 2150
0 433 271 160	DLLA 79 S	390	Mercedes	37 2160
0 433 271 162	DLLA 149 S	394	KHD	37 2162
0 433 271 170	DLLA 160 S	705	Renault	37 2170
0 433 271 199	DLL 145 S	448	Fiat	37 2199
0 433 271 201	DLLA 28 S	441	Deutz-Argentina , Volvo	37 2201
0 433 271 212	DLLA 150 S	467	DAF	37 2212
0 433 271 221	DLLA 144 S	485	Mercedes	37 2221
0 433 271 224	DLLA 150 S	494	Mack, Scania	37 2224
0 433 271 233	DLLA 27 S	512	Renault	37 2233
0 433 271 252	DLLA 38 S	541	MAN	37 2252
0 433 271 258	DLLA 150 S	548	Scania	37 2258
0 433 271 259	DLLA 150 S	549	Scania	37 2259
0 433 271 261	DLLA 155 S	531	Ferrari, Valpaddana	37 2261
0 433 271 263	DLLA 160 S	555	Ferrari, Lombardini	37 2263
0 433 271 266	DLLA 140 S	56 F	Fiat	37 2266
0 433 271 268	DLLA 150 S	2120	Mercedes	37 2268
0 433 271 280	DLLA 150 S	582	Volvo	37 2280
0 433 271 281	DLLA 150 S	583	Volvo	37 2281
0 433 271 285	DLLA 28 S	589	MAN	37 2285
0 433 271 298	DLLA 150 S	615	Fiat, Scania	37 2298
0 433 271 299	DLLA 150 S	616	Scania	37 2299
0 433 271 305	DLLA 160 S	626	Renault	37 2305
0 433 271 306	DLLA 25 S	627	MAN, Renault	37 2306
0 433 271 322	DLLA 28 S	656	KHD	37 2322
0 433 271 325	DLLA 141 S	662	Fiat, Iveco, KHD	37 2325
0 433 271 334	DLLA 30 S	678	MAN, Renault	37 2334
0 433 271 334	DLLA 145 S	770	Fiat, Iveco	37 2334
0 433 271 335	DLLA 160 S	707	Agric	37 2344
0 433 271 336	DLLA 25 S	722	MAN, Renault	37 2355
0 433 271 337	DLLA 150 S	747	Mercedes	37 2366
0 433 271 339	DLLA 150 S	777	Steyr	37 2375
0 433 271 375	DLL 145 S	69 F	Fiat	37 2375
0 433 271 394	DLLA 150 S	781	Mercedes	37 2394
0 433 271 397	DLLA 150 S	788	Ford	37 2397
0 433 271 403	DLLA 142 S	791	Mercedes	37 2403
0 433 271 404	DLLA 142 S	792	Mercedes	37 2404
0 433 271 423	DLLA 144 S	829	Mercedes	37 2423
0 433 271 440	DLLA 150 S	891	Steyr	37 2440
0 433 271 447	DLLA 144 S	8200	Mercedes	37 2447

**Type****Reference No.****Flag No.****Application****Reference No.****DLLAS**

0 433 271 121	DLL 145 S	935	Mercedes	37 2462
0 433 271 137	DLL 145 S	975	Fiat, Lancia	37 2465
0 433 271 145	DLL 145 S	926	Mercedes	37 2466
0 433 271 146	DLL 145 S	982	Renault	37 2467
0 433 271 150	DLLA 35 S	829	Mercedes	37 2469
0 433 271 160	DLLA 79 S	999	Mercedes	37 2471
0 433 271 162	DLLA 149 S	1003	Mercedes	37 2478
0 433 271 170	DLLA 160 S	1019	Baudouin	37 2482
0 433 271 199	DLL 145 S	1034	Mercedes	37 2487
0 433 271 201	DLLA 28 S	1094	Mercedes	37 2499
0 433 271 212	DLLA 150 S	1096	Mercedes	37 2502
0 433 271 221	DLLA 144 S	1157	Mercedes	37 2515
0 433 271 224	DLLA 150 S	1191	Mercedes	37 2521
0 433 271 233	DLLA 27 S	1199	Mercedes	37 2524
0 433 271 252	DLLA 38 S	1224	Mercedes	37 2527
0 433 271 258	DLLA 150 S	1257	Mercedes	37 2534
0 433 271 259	DLLA 150 S	1258	Mercedes	37 2588
0 433 271 261	DLLA 155 S	1199+	Mercedes	37 2614
0 433 271 263	DLLA 160 S	1305	Renault	37 2625
0 433 271 266	DLLA 140 S	1302	Iveco	37 2627
0 433 271 268	DLLA 150 S	1298	Volvo	37 2624
0 433 271 280	DLLA 150 S	1295	DAF	37 2627
0 433 271 281	DLLA 150 S	1280	DAF	37 2632
0 433 271 285	DLLA 28 S	1277	DAF	37 2635
0 433 271 298	DLLA 150 S	1272	Volvo	37 2638
0 433 271 299	DLLA 150 S	1263	Volvo	37 2644
0 433 271 305	DLLA 160 S	1252	Iveco	37 2646
0 433 271 306	DLLA 25 S	1238	DAF	37 2655
0 433 271 322	DLLA 28 S	1237	DAF	37 2656
0 433 271 325	DLLA 141 S	1232	DAF	37 2658
0 433 271 334	DLLA 30 S	1221	Renault	37 2665
0 433 271 334	DLLA 145 S	1220	Renault	37 2666
0 433 271 335	DLLA 25 S	1238	DAF	37 2674
0 433 271 336	DLLA 25 S	1208	Flateotech, IVECO	37 2689
0 433 271 337	DLLA 140 S	1183	KHD	37 2691
0 433 271 339	DLLA 150 S	1180	KHD	37 2698
0 433 271 375	DLL 145 S	1169	Iveco, Magirus Deutz	37 2680
0 433 271 394	DLLA 150 S	1161	DAF	37 2702
0 433 271 397	DLLA 150 S	1160	DAF	37 2703
0 433 271 403	DLLA 142 S	1137	Iveco	37 2714
0 433 271 404	DLLA 142 S	1116	DAF	37 2718
0 433 271 423	DLLA 144 S	1113	Flat, IVECO	37 2719
0 433 271 440	DLLA 150 S	1122	Flat, Ford, IVECO	37 2720
0 433 271 447	DLLA 144 S	1089	Flat, Renault	37 2732



Flag No.**Application****Type****Reference No.****Flag No.****Application****Type****Reference No.****BDLL**

DLLA 154 S 1086 Renault 37 2735 BDLL 140 S 6422 Claas, Ford, Henley
 DLLA 136 S 943 MAN 37 2740 BDLL 150 S 6476 Ford, Perkins
 DLLA 140 S 1054 Volvo 37 2756 BDLL 150 S 6571 Case
 DLLA 136 S 1020 Iveco 37 2768 BDLL 140 S 6592 Case
 DLLA 124 S 1001 Fiat, Ford, Iveco 37 2774 BDLL 150 S 6667 Ford, IH, Perkins
 DLLA 136 S 1000 Fiat 37 2775 BDLL 150 S 6705 Massey Ferguson, Perkins
 DLLA 144 S 992 Renault 37 2781 BDLL 150 S 6730 Massey Ferguson, Perkins
 DLLA 138 S 983 MAN, Mercedes 37 2783 BDLL 150 S 6780 Case
 DLLA 142 S 980 Liebherr 37 2785 BDL 110 S 626 Allis Chalmers
 DLLA 140 S 976 DAF, Leyland 37 2788 BDLL 140 S 6306 Leyland
 DLLA 154 S 970 Renault 37 2791 BDLL 150 S 6225 Caterpillar

Claas, Ford, Henley 35 6422
 Ford, Perkins 35 6476
 Case 35 6571
 Case 35 6592
 Case 35 6667
 Ford, IH, Perkins 35 6705
 Massey Ferguson, Perkins 35 6730
 Case 35 6780
 Allis Chalmers 35 6267
 Leyland 35 6306
 Caterpillar 35 6225

DLSA 145 P 263 Cummins
 DLSA 145 P 265 Cummins
 DLSA 150 P 280 Audi, Ford, VW
 DLSA 145 P 300 Fiat, Iveco, Renault
 DLSA 150 P 357 Ford, VW
 DLSA 145 P 366 Landrover
 DLSA 150 P 442 Audi, Seat, VW
 DLSA 148 P 482 Mercedes
 DLSA 154 P 492 MAN
 DLSA 137 P 506 Mack
 DLSA 150 P 520 Audi, Seat, VW
 DLSA 148 P 591 MB Sprinter
 DLSA 134 P 604 Iveco, Renault
 DLSA 154 P 619 Renault
 DLSA 134 P 772 Fiat
 DLSA 142 P 795 Fiat, Peugeot, Suzuki
 DLSA 134 P 816 Iveco
 DLSA 153 P 820 Cummins
 DLSA 156 P 856 VW
 Renault, Opel 37 5230
 Ford 37 5263
 Peugeot, Citroen 37 5272
 GM, Isuzu 37 1275
 Peugeot 37 5281
 Alfa Romeo, Fiat 37 5288

DLSA 175 031 Cummins
 DLSA 175 033 Cummins
 DLSA 175 042 Audi, Ford, VW
 DLSA 175 048 Fiat, Iveco, Renault
 DLSA 175 058 Ford, VW
 DLSA 175 061 Landrover
 DLSA 175 072 Audi, Seat, VW
 DLSA 175 083 Mercedes
 DLSA 175 085 MAN
 DLSA 175 088 Mack
 DLSA 175 093 Audi, Seat, VW
 DLSA 175 110 MB Sprinter
 DLSA 175 114 Iveco, Renault
 DLSA 175 117 Renault
 DLSA 175 179 Fiat
 DLSA 175 196 Fiat, Peugeot, Suzuki
 DLSA 175 208 Iveco
 DLSA 175 210 Cummins
 DLSA 175 212 Cummins
 DLSA 175 228 VW
 Renault, Opel 37 5031
 Ford 37 5033
 Audi, Ford, VW 37 5042
 Fiat, Iveco, Renault 37 5048
 Ford, VW 37 5058
 Landrover 37 5061
 Audi, Seat, VW 37 5072
 Mercedes 37 5083
 MAN 37 1085
 Mack 37 5088
 Audi, Seat, VW 37 5093
 MB Sprinter 37 5110
 Iveco, Renault 37 5114
 Renault 37 5117
 Fiat 37 5179
 Fiat, Peugeot, Suzuki 37 5196
 Iveco 37 5208
 Cummins 37 5210
 VW 37 5228
 Renault, Opel 37 5230
 Ford 37 5263
 Peugeot, Citroen 37 5272
 GM, Isuzu 37 1275
 Peugeot 37 5281
 Alfa Romeo, Fiat 37 5288

0 433 271 735 DLLA 154 S 1086 Renault 37 2735 BDLL 140 S 6422 Claas, Ford, Henley
 0 433 271 740 DLLA 136 S 943 MAN 37 2740 BDLL 150 S 6476 Ford, Perkins
 0 433 271 756 DLLA 140 S 1054 Volvo 37 2756 BDLL 150 S 6571 Case
 0 433 271 768 DLLA 136 S 1020 Iveco 37 2768 BDLL 140 S 6592 Case
 0 433 271 774 DLLA 124 S 1001 Fiat, Ford, Iveco 37 2774 BDLL 150 S 6667 Ford, IH, Perkins
 0 433 271 775 DLLA 136 S 1000 Fiat 37 2775 BDLL 150 S 6705 Massey Ferguson, Perkins
 0 433 271 781 DLLA 144 S 992 Renault 37 2781 BDLL 150 S 6730 Massey Ferguson, Perkins
 0 433 271 783 DLLA 138 S 983 MAN, Mercedes 37 2783 BDLL 150 S 6780 Case
 0 433 271 785 DLLA 142 S 980 Liebherr 37 2785 BDL 110 S 626 Allis Chalmers
 0 433 271 788 DLLA 140 S 976 DAF, Leyland 37 2788 BDLL 140 S 6306 Leyland
 0 433 271 791 DLLA 154 S 970 Renault 37 2791 BDLL 150 S 6225 Caterpillar

0 433 271 807 DLLA 150 S 916 Scania 37 2807 DLSA 145 P 263 Cummins
 0 433 271 819 DLLA 148 S 885 KHD 37 2819 DLSA 145 P 265 Cummins
 0 433 271 829 DLLA 150 S 853 Scania 37 2829 DLSA 150 P 280 Audi, Ford, VW
 0 433 271 835 DLLA 144 S 842 Renault 37 2835 DLSA 145 P 300 Fiat, Iveco, Renault
 0 433 271 837 DLLA 150 S 838 Scania 37 2837 DLSA 150 P 357 Ford, VW
 0 433 271 849 DLLA 150 S 815 Case, New Holland 37 2849 DLSA 145 P 366 Landrover
 0 433 271 865 DLLA 150 S 762 Volvo 37 2865 DLSA 145 P 442 Audi, Seat, VW
 0 433 271 867 DLLA 150 S 754 Mack, Scania 37 2867 DLSA 150 P 482 Mercedes
 0 433 271 868 DLLA 150 S 753 Scania 37 2868 DLSA 148 P 482 Mercedes
 0 433 271 874 DLLA 150 S 739 Scania 37 2874 DLSA 154 P 492 MAN
 0 433 271 883 DLLA 155 S 713 John Deere 37 1883 DLSA 154 P 492 MAN
 0 433 271 886 DLLA 152 S 703 JHC 37 2886 DLSA 137 P 506 Mack
 0 433 271 891 DLLA 150 S 690 JHC 37 2891 DLSA 150 P 520 Audi, Seat, VW
 0 433 271 997 DLLA 132 S 1320 Fiat 37 2997 DLSA 148 P 591 MB Sprinter
 0 433 272 004 DLLA 145 S 1330 Baudouin 37 1004 DLSA 134 P 604 Iveco, Renault
 0 433 272 004 DLLB 151 S 907 Fiat, Lancia 37 0214 DLSA 154 P 619 Renault
 9 430 084 214 DLLB 142 S 1013 Mercedes 37 0227 DLSA 134 P 772 Fiat
 9 430 084 227 DLLA 130 S 1253 Mercedes 37 0244 DLSA 142 P 795 Fiat, Peugeot, Suzuki
 9 430 084 244 DLLA 142 S 1264 Mercedes 37 0245 DLSA 134 P 816 Iveco
 9 430 084 245 DLLA 142 S 1266 Mercedes 37 0247 DLSA 153 P 820 Cummins
 9 430 084 247 DLLA 142 S 324 N 413 Isuzu, Nissan 37 0018 DLSA 156 P 856 VW
 9 432 610 018 DLLA 154 S 324 N 413 Isuzu, Nissan 37 0018 Renault, Opel 37 5230
 0 433 270 157 BDLL 140 S 6622 Claas, Ford, Henley 35 6622 Renault, Opel
 0 433 270 159 BDLL 150 S 6554 Clark, Leyland, Volvo BM 35 6554 Renault, Opel
 0 433 271 160 BDLL 150 S 6329 Boss Trucks, Claas, Henley, 35 6329 Ford
 0 433 271 242 BDLL 160 S 6551 Chevrolet 35 6551 Peugeot, Citroen
 0 433 271 396 BDLL 160 S 6584 Bedford, Opel 35 6584 GM, Isuzu
 0 433 271 397 BDLL 150 S 6665 Ford 35 6665 Peugeot
 0 433 271 418 BDLL 150 S 6666 Ford 35 6666 Peugeot
 0 433 271 473 BDLL 150 S 6602 Case, IH, Massey Ferguson, 35 6602 Peugeot, Citroen
 0 433 271 494 BDLL 150 S 6556 Case, J.C.B., Massey Ferguson, 35 6556 GM, Isuzu
 0 433 272 008 BDLL 150 S 6507 Perkins, Volvo 35 6507 Peugeot
 5620 855 BDLL 160 S 6173 Bedford, Hyster, J.C.B. 35 6173 Peugeot
 5621 120 BDLL 150 S 6372 Lincoln 35 6372 Peugeot
 5621 208 BDLL 150 S 6395 Case, Ford, RV 35 6395 Peugeot

**BDLL**

0 433 270 157 BDLL 140 S 6622 Claas, Ford, Henley 35 6622 Renault, Opel
 0 433 270 159 BDLL 150 S 6554 Clark, Leyland, Volvo BM 35 6554 Renault, Opel
 0 433 271 160 BDLL 150 S 6329 Boss Trucks, Claas, Henley, 35 6329 Ford
 0 433 271 242 BDLL 160 S 6551 Chevrolet 35 6551 Peugeot, Citroen
 0 433 271 396 BDLL 160 S 6584 Bedford, Opel 35 6584 GM, Isuzu
 0 433 271 397 BDLL 150 S 6665 Ford 35 6665 Peugeot
 0 433 271 418 BDLL 150 S 6666 Ford 35 6666 Peugeot
 0 433 271 473 BDLL 150 S 6602 Case, IH, Massey Ferguson, 35 6602 Peugeot, Citroen
 0 433 271 494 BDLL 150 S 6556 Case, J.C.B., Massey Ferguson, 35 6556 GM, Isuzu
 0 433 272 008 BDLL 150 S 6507 Perkins, Volvo 35 6507 Peugeot
 5620 855 BDLL 160 S 6173 Bedford, Hyster, J.C.B. 35 6173 Peugeot
 5621 120 BDLL 150 S 6372 Lincoln 35 6372 Peugeot
 5621 208 BDLL 150 S 6395 Case, Ford, RV 35 6395 Peugeot



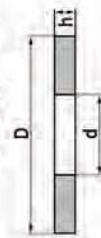
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Denso	093400-1330	NK - DN 4 SDNP 133	35 1330												
	093400-1400	NK - DN 0 SD 2110	35 1400												
	093400-5320	NK - DN 20 PD 32	35 5320												
	093400-5571	NK - DN 4 PD 57	35 5571												
	093400-6810	NK - DN 4 PD 681	35 6810												
	095000-0510	NK - DLLA 148 P 765	37 0765												
	095000-0570	NK - DLLA 147 P 747	37 0747												
		NK - DLLA 155 P 965	37 0965												
	0431 213 005	KBAL 98 S8/13	15 3005												
	0431 214 027	KBAL100 S52	90 7027												
	0431 114 974	KBEL100 P123	90 7974												
	NBM 770049	NBM	36 0000												
	NBM 770052	NBM	36 0006												
	NBM 770053	NBM	36 0005												
	NBM 770054	NBM	36 0007												
	NBM 770055	NBM	36 0003	0430 211 048	KCA 30 S 36/4	Audi, Volvo, VW	15 0103	0430 211 048	KCA 17 S 42	Fiat, Opel, Renault	15 0102	0430 211 048	KCA 30 S 44	Fiat, MB, Volvo, VW	15 0101
	NBM 770069	NBM	36 0001	0430 211 053	KCA 30 S 44	Fiat, Lancia, Iveco	15 0104	0430 211 065	KCA 30 S 41	Fiat, Lancia, Iveco	15 0104	0430 211 065	KCA 30 S 41	Fiat, Lancia, Iveco	15 0104
	NBM 771888	NBM	36 0008	0430 211 065	KCA 30 S 41			0430 232 013	KDAL 74 S 21/19	Mercedes	90 7013	0430 232 013	KDAL 80 S 14/14	Mercedes	90 7003
	NBM 771890	NBM	36 0002	0430 211 065	KCA 30 S 41			0430 233 003	KDAL 80 S 47	Mercedes	90 7020	0430 233 020	KDAL 80 S 47	Mercedes	90 7020
	NBM 771891	NBM	36 0009	0430 211 065	KCA 30 S 41			0432 133 864	KDAL 59 P 6	Cummins	15 3864				
	NHB 780328	NHM	37 9328												
	NHM 780325	NHM	37 9325												
	NHM 780329	NHM	37 9329												
	NHM 780332	NHM	37 9321												
	0432 131 837	6 BTAA	15 3837												
	0432 191 595	6 CTA	15 9595												
	0432 193 630	ISB	15 9630												
	0432 193 635	ISB 275 HP	15 9635												
	0432 193 645	ISB 195 HP	15 9645												
	0432 193 864	6 BTAA	15 9864												

Flag No. 82 0356	Type KBA KCA KDA	Flag No. 82 0519	Type KBEL KDEL	Flag No. 82 0520	Type KBEL KDEL
Reference No.: 2 430 136 031		Reference No.: 2 430 136 085		Reference No.: 2 430 136 166	
Flag No. 82 0550	Type KCA	Flag No. 82 0550	Type KCA-S	Flag No. 82 0553	Type KDAL
Reference No.: 2 430 136 145		Reference No.: 2 430 136 171		Reference No.: 2 430 136 191	
Flag No. 82 0565	Type KBE	Flag No. 82 0707	Type KBAL KDAL	Flag No. 82 0715	Type KDAL
Reference No.: 2 430 136 167		Reference No.: 2 430 136 202		Reference No.: 2 430 136 221	
Flag No. 82 0541	Type KBE	Flag No. 82 0601	Type KBEL KDEL	Flag No. 82 0602	Type KBEL KDEL
Reference No.: from kit 2 437 010 151		Reference No.: 2 430 136 212		Reference No.: 2 430 136 221	
Flag No. 82 0991	Type KBAL KDAL	Flag No. 82 0979	Type KBAL-P KDAL-P	Flag No. 82 1593	Type KCA
Reference No.: 2 430 134 023		Reference No.: 2 433 120 108		Reference No.: 2 433 124 372	
Flag No. 82 1512	Type KBEL-P KDEL-P	Flag No. 82 0133	Type KBA-S KCA-S KDAL-S	Flag No. 82 1403	Type KBEL-S KDEL-S
Reference No.: 2 433 120 127		Reference No.: 2 433 124 137		Reference No.: 2 433 124 379	
Flag No. 82 1401	Type KCA-S	Flag No. 82 1402	Type KBEL-P KDEL-P	Flag No. 82 1513	Type KBAL-P KDAL-P
Reference No.: 2 433 124 380		Reference No.: 2 433 124 388		Reference No.: 2 433 124 446	

Flag No.	Material	D x d x h	Application	Reference No.
● 82 0174	Steel	20,2 x 5,6 x 3,5	Audi, VW, Volvo	068 130 219
● 82 0175	Steel	20,3 x 5,3 x 3,5	Mercedes	617 017 0260
● 82 0176	Steel	20,3 x 5,3 x 3,5	Mercedes	617 017 0360
● 82 0917	Steel	20,2 x 5,5 x 2,8	Renault	7.700,663,36382
● 82 1617	Steel	20,3 x 5,3 x 3,5	KHD	1 410 501 075
● 82 1628	Steel	20,3 x 5,3 x 3,5	KHD, MAN, MTU, MB1 410 501 070	
● 82 0918	Copper	20,3 x 7,8 x 2,7	Ford	2 430 501 006
● 82 0919	Copper	18,0 x 10,5 x 4,5	Mitsubishi	ME 001017
● 82 0920	Copper	16,0 x 10,0 x 4,5	Mitsubishi	82 0920
● 82 1526	Brass	17,7 x 12,6 x 2,5	Toyota	2 430 501 006
● 82 1527	Brass	19,8 x 15,0 x 2,8	Toyota	ME 001017
● 82 1528	Brass	21,5 x 15,2 x 3,0	Toyota	82 0920

Flag No.	Material	D x d x h	Application	Reference No.
○ 83 0181	Nylon	14,3 x 9,8 x 3,3	Stanadyne-Roosam.	16168
○ 83 0188	Nylon	9,7 x 8,0 x 2,9	Stanadyne-Roosam.	18839
○ 83 0189	Nylon	9,7 x 8,0 x 2,9	Stanadyne-Roosam.	16389
○ 83 0256	Nylon	14,3 x 9,8 x 3,0	Stanadyne-Roosam.	20628
○ 82 0883	Steel	11,4 x 5,3 x 1,1	Opel, Isuzu	11,4 x 5,3 x 0,5
○ 82 0909	Brass	14,1 x 8,8 x 1,2	Toyota	11177-56010
○ 82 0910	Copper	11,5 x 6,5 x 2,2	Toyota, Mitsubishi	11177-64010
○ 82 0911	Steel	14,0 x 5,0 x 1,3	Citroen	1981.33
○ 82 0912	Brass	13,4 x 7,2 x 1,1	Isuzu	7700854406
○ 82 0931	Steel	13,6 x 6,7 x 1,2	Opel, Ford, Peugeot	2 430 190 002
○ 82 1454	Steel	10,7 x 4,2 x 1,1	Peugeot	1981.36
○ 82 1455	Steel	13,8 x 5,5 x 1,5	Peugeot	1981.35
○ 84 0077	Copper	9,6 x 22,0 x 1,2		9,6 x 22,0 x 1,2
○ 84 0096	Copper	7,13 x 7,74 x 1,5	MAN, Volvo, Cummins F 00V C17 503	

Flag No.	Material	D x d x h	Application	Reference No.
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Flag No.	Material	D x d x h	Application	Reference No.
	Allu	23,0 x 12,4 x 1,0	Toyota, Daihat.	023654-46010

Flag No.	Material	D x d x h	Application	Reference No.
	Allu	18,65 x 12,4 x 1,0	Toyota	093245-0140

Flag No.	Material	D x d x h	Application	Reference No.
	Allu	25,6 x 15,25 x 1,0	Toyota, Daihat.	50623-190

Flag No.	Material	D x d x h	Application	Reference No.
	Copper	19,75 x 12,25 x 1,0	Isuzu	03456258

Flag No.	Material	D x d x h	Application	Reference No.
	Allu	22,4 x 12,8 x 1,0	Isuzu	093245-0040

Flag No.	Material	D x d x h	Application	Reference No.
	Copper	7,15 x 15,05 x 1,6	KHD, Mercedes	2 430 105 049

Flag No.	Material	D x d x h	Application	Reference No.
	Copper	17,45 x 10,95 x 5,47	Toyota	84 0229

Flag No.	Material	D x d x h	Application	Reference No.
	Copper	9,5 x 19,0 x 7,3	Isuzu	84 0230

Flag No.	Material	D x d x h	Application	Reference No.
	Brass	7,0 x 22,0 x 4,0	Daihatsu	11176-87301-000

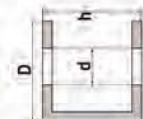
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	Brass	7,0 x 14,0 x 4,9	Isuzu	84 0232

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	Brass	7,0 x 14,0 x 4,0	Toyota, Isuzu	84 0233

Flag No.	Material	D x d x h	Application	Reference No.
	Brass	7,0 x 15,0 x 6,8	Toyota, Isuzu	84 0234

Flag No.	Material	D x d x h	Application	Reference No.
	Copper	15,0 x 7,0 x 6,5		

F 00Z W00 003



4279493
1501934

Steel
Steel

20,45 x 5,5 x 13,0
21,45 x 7,0 x 14,45

Fiat,Sofim
Ford Transit

82 0921
82 0922

20,0 x 7,55 x 13,5
21,0 x 7,55 x 13,5

Opel
Peugeot

198105
Fiat

VM,Alfa

1177604455

Renault,Steyr

2 430 422 005

19432361

Opel,Isuzu

2 430 422 005

F 00Z W00 003

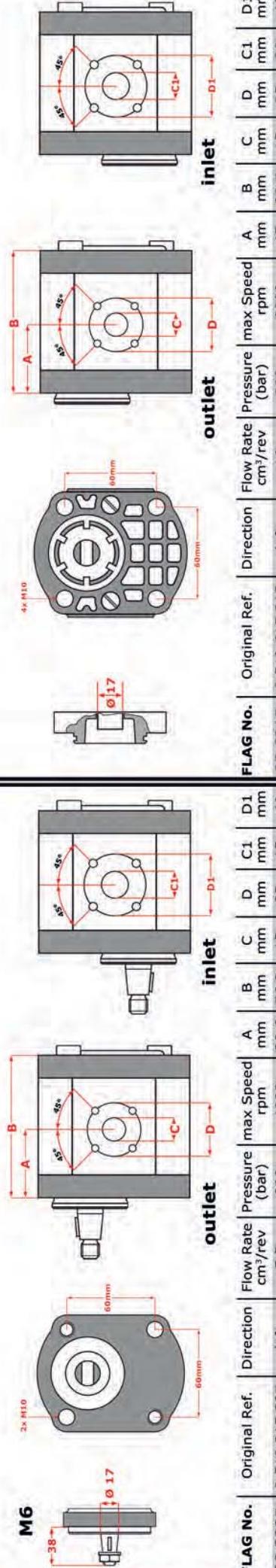
FLAG®

DIESEL EQUIPMENT

GERMANY

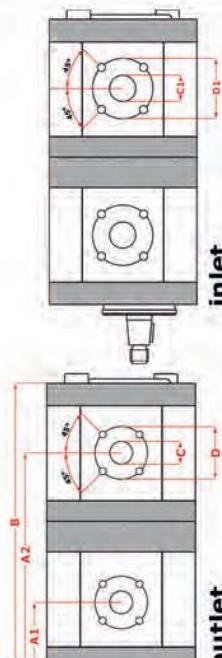
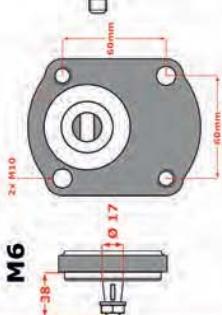
- 34 -

Hydraulic Gearpumps

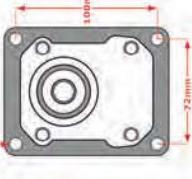
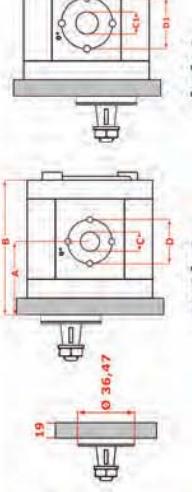


FLAG No.	Original Ref.	Direction	Flow Rate cm ³ /rev	Pressure (bar)	max Speed rpm	A mm	B mm	C mm	D mm	C1 mm	D1 mm	Original Ref.	FLAG No.	A mm	B mm	C mm	D mm	C1 mm	D1 mm	
92 3307	0 510 315 307	left	5,5	280	4000	38,6	76,2	15	35	40	92 6315	0 510 615 315	left	16	230	3500	45	93,7	20	40
92 6333	0 510 615 333	left	16	210	3000	45	95	15	35	20	92 2307	0 510 215 307	left	4	280	4000	37,4	73,7	15	40
92 6317	0 510 615 317	left	16	175	3200	45	93,8	15	35	20	92 4314	0 510 415 314	left	8	280	4000	40,7	80,3	20	40
92 6338	0 510 615 338	left	19	210	3000	45	100	15	35	20	92 5311	0 510 515 311	left	11	280	3500	44,5	85,3	15	35
92 7306	0 510 715 306	left	22,5	210	2500	52,5	104,1	15	35	20	92 5340	0 510 515 340	left	14	280	3000	45	90,3	15	35
92 5309	0 510 515 309	left	11	280	3500	44,5	85,5	15	35	20	92 6007	0 510 615 007	right	16	230	3000	45	93,7	15	35
92 5327	0 510 515 327	left	11	280	3500	44,5	85,5	15	35	20	92 2007	0 510 215 007	right	4	280	4000	37,4	73,7	15	40
92 5316	0 510 515 316	left	14	280	3000	45	90,3	15	35	20	92 4006	0 510 415 006	right	8	280	4000	40,7	80,3	15	35
92 5328	0 510 515 328	left	14	280	3000	45	90,3	15	35	20	92 5005	0 510 515 005	right	11	280	3500	44,5	85,3	15	35
92 6318	0 510 615 318	left	19	230	3000	45	98,7	15	35	20	92 5019	0 510 515 019	right	14	280	3000	45	90,3	15	35
92 4313	0 510 415 313	left	8	280	4000	40,7	80,3	15	35	20	92 4311	0 510 415 311	left	8	280	4000	40,7	80,3	15	35
92 3006	0 510 315 006	right	5,5	280	4000	38,6	76,2	15	35	15	92 5007	0 510 515 007	right	11	280	3500	44,5	85,5	15	35
92 5018	0 510 515 018	right	14	280	3000	45	90,3	15	35	20	92 6005	0 510 615 005	right	19	230	3000	45	98,7	15	35
92 4005	0 510 415 005	right	8	280	4000	40,7	80,3	15	35	20	92 4005	0 510 415 005	right	8	280	4000	40,7	80,3	15	35

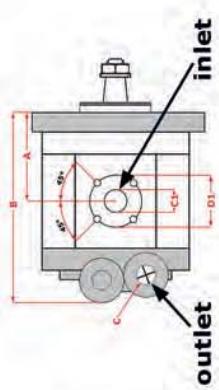
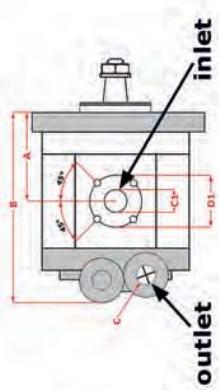
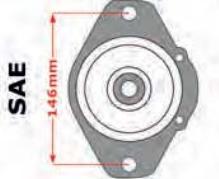
Hydraulic Gearpumps



FLAG No.	Original Ref.	Dir.	Flow Rate cm³/rev	Pressure (bar)	max Speed rpm	A mm	B mm	C mm	D mm	C1 mm	D1 mm
92 6335	0 510 665 382	left	16 / 11	280	3000	45	146,2	187	15	35	20
92 63381	0 510 665 381	left	16 / 14	280	3000	45	146,7	192	15	35	20
92 5387	0 510 565 387	left	11 / 4	280	3500	44,5	130,7	167	15	35	20
92 5389	0 510 565 389	left	11 / 8	280	3500	44,5	134	173,6	15	35	20
92 6368	0 510 665 368	left	19 / 11	280	3000	45	146,2	192	15	35	20
92 6152	0 510 665 152	right	16 / 11	280	3000	45	146,2	187	15	35	20
92 6144	0 510 665 144	right	16 / 14	280	3000	45	146,7	192	15	35	20
92 5014	0 510 565 014	right	11 / 8	280	3500	44,5	134	173,6	15	35	20



FLAG No.	Original Ref.	Direction	Flow Rate cm³/rev	Pressure (bar)	max Speed rpm	A mm	B mm	C mm	D mm	C1 mm	D1 mm
92 8042		left	15	250	2500	50	97,2	14	30	19	40



FLAG No.	Original Ref.	Direction	Flow Rate cm³/rev	Pressure (bar)	max Speed rpm	A mm	B mm	C mm	D mm	C1 mm	D1 mm
92 8388		left	16	280	3000	45	120	116 x 1,5	45	20	40

Connection and Repair Kits



80 1900

1 517 010 152



80 7074

1 515 702 074

80 7075

1 515 702 075

80 1306

1 515 702 075

80 1306

Cross Reference List

Bosch	Bosch																			
0 281 002 241	80 1162	0 432 291 752	15 9752	0 433 171 291	37 1291	0 433 175 072	37 5072	0 433 271 305	37 2305	0 433 271 775	37 2275	0 434 250 193	35 5193	0 440 007 015	98 0003	0 433 271 206	37 2266	0 434 250 199	35 5199	0 440 007 015
0 330 001 013	82 1000	0 433 171 021	37 1021	0 433 171 297	37 1297	0 433 175 083	37 5083	0 433 271 306	37 2306	0 433 271 781	37 2283	0 434 250 232	35 5206	0 440 007 097	98 0004	0 433 271 322	37 2226	0 434 250 232	35 5206	0 440 007 097
0 330 001 015	82 1007	0 433 171 023	37 1023	0 433 171 298	37 1298	0 433 175 085	37 5085	0 433 271 308	37 2308	0 433 271 783	37 2284	0 434 250 233	35 5208	0 440 007 098	90 0098	0 433 271 324	37 2225	0 434 250 233	35 5208	0 440 007 098
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Bosch	81 0562	2 430 100 540	Bosch	82 1535	2 433 120 110	Bosch	82 0563	2 440 105 000	Bosch	84 0015	2 444 618 006	Bosch	82 0094	2 453 405 001	Bosch	82 0057	2 453 405 001
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Delphi GAV	Delphi GAV	Denso/Zexel	Denso/Zexel	Denso/Zexel	Denso/Zexel
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7182-187	82 0295 9007-497AZ	81 0420 9167-403	81 0590 026516-2040	84 0143 090206-0060	83 0341 090604-0180
7182-192	82 0325 9007-497BN	81 1378 9167-407	81 1255 026518-2240	84 0141 090206-0070	83 0341 090604-0180
7182-198	82 0320 9007-497BP	81 1378 9167-407	81 1255 026520-2440	84 0163 090206-0130	83 0341 090604-0180
7182-20C	82 0679 9007-497BP	81 0199 9201-916	83 0232 026522-2440	84 0164 090206-0170	83 0341 090604-0180
7182-234	83 0207 9007-497BS	81 1378 9300-015E	80 0964 026522-2440	84 0164 090206-0170	83 0341 090604-0180
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7182-423	83 0325 9007-497N	81 0417 L014PBB	39 0007 029331-0240	84 0144 090222-0070	84 0365 090340-1090
7182-562	82 0922 9007-497P	81 0412 L08PBD	39 0004 029331-4010	84 0040 090241-0010	84 0363 090340-1160
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7200-016	81 0454 9107-401	82 1108 9103-222	84 0105 NW5-7W4	84 0187 029632-0030	81 0933 090823-0310
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7189-311	81 1229 9107-310	82 1141 9107-401	84 0045 029632-9030	81 0445 091049-0390	82 0889 090610-0041
7200-016	81 0454 9107-401	82 1108 9107-403	84 0111 9107-403	81 0764 091057-0022	83 0330 090823-0310
7200-016	81 0505 9107-403	82 1109 9107-403	84 0124 9107-403	81 0935 091057-0050	80 0353 090823-0310

Cross Reference List

Denso/Zexel	Denso/Zexel	Denso/Zexel	KHD	Standadyne	KHD	Standadyne	KHD	Standadyne	KHD	Standadyne	KHD
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Cross Reference List

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	Volvo	Volvo
18838	84 0012 244393	82 0171 1699474
18844	84 0015 244825	82 0068 1699778
25287	82 0279 244825	97 0081 2432251
25282	83 0227 244829	81 0056 2711562
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General Terms of Sale and Delivery for Export

1. Validity of the General Terms of Sale and Delivery

- a) The following General Terms of Sale and Delivery are valid for all business contacts between ourselves and our customers, including future contracts, unless specifically agreed otherwise and confirmed in writing or by telex.
- b) Any deviations from these terms which may appear on order forms or orders from customers have no validity. Such deviations are not binding on us even when they are not explicitly declared invalid by us or even when we execute a delivery on receipt of an order containing such deviations.
- c) All verbal agreements, as well as all alterations or extensions to contracts confirmed in writing or telegraphically, require a separate written or telegraphic confirmation.
- d) All contracts with our customers are only binding when confirmed in writing or telegraphically. This confirmation may also be given at the same time as the invoice is received. Until this confirmation has been given, our offer is without obligation and not binding.
- e) The invalidation of an individual item of these General Terms of Sale and Delivery in no way affects the validity of any other item.
- f) All items which the seller offers are manufactured by the company of the seller. The seller guarantees that all items are of highest quality and precise fitting. All goods offered by the seller are goods which are offered for the purpose of being used as spare parts. Part numbers of other manufacturers are only mentioned for comparison purposes.

2. Terms of delivery

- a) Our prices are quoted in EUR. The agreed prices are based on the current purchasing prices, standard wages and salaries, customs duty, freight costs and other social costs. Should these costs increase after the contract has been confirmed, we reserve the right to raise our prices accordingly.
- b) Special packaging is accounted to cost price.
- c) We reserve the right to bill for costs incurred in producing test components together with the cost of tooling for such components.
- d) Our delivery times are accurate to the best of our knowledge at the time of quotation. Call contracts and scheduled deliveries require a special delivery agreement in all cases. If a contracted delivery period is exceeded by more than 3 weeks for reasons which are our liability, the customer is entitled to withdraw the contract after a further 3 weeks period of grace.
- e) For contracts which consist of several partial shipments, the later delivery of a partial shipment does not imply any alteration in rights for the remaining shipments of the contract. For call contracts we reserve the right to purchase raw materials for the complete contract at our discretion and to manufacture the full contracted quantities for small and medium lots immediately. Any alterations made after confirmation of contract without written confirmation therefore cannot be accepted.
- f) We reserve the right to deliver within 10% above or below the contracted quantities.
- g) Returned goods can only be accepted with our prior agreement to the return.
- h) In the event of bankruptcy or insolvency the execution of a statutory declaration (or affidavit) in accordance with § 807 ZPO, payment difficulties or the notification of a considerable depreciation in the customers pecuniary circumstances, give us the right to halt delivery immediately and to refuse to complete running contracts.

3. Risk liability

- a) All shipments are made at the customers risk.
- b) All shipments are made correctly delivered to the railway, carrier or transport company, or have been loaded onto our own, or the customers vehicles.
- c) If a customer does not take delivery of a shipment within a reasonable period of grace, or refuses to accept a shipment within the agreed delivery date, for reasons which are not our liability, then we are entitled to return the goods to our warehouse at the customers cost and liability. We are entitled to levy storage charges at 75% of the equivalent storage charges levied by a storage company or production is hindered for reasons for which we are neither responsible nor liable, for example force majeure, war or civil unrest, operational breakdowns or traffic stoppages, lack of raw materials or labour, strikes or lock-outs, whether in our plant or a supplier plant, then we are no longer bound by our liability for delivery and we are also entitled to halt delivery without subsequent delivery period.

4. Warranty

- We warrant good quality and careful execution of the supplied goods for a period of 12 month from date of handing over respective goods to customer or the third party which is responsible for transportation or shipment of respective goods. This warranty exclusively comprises the lack of defects in material and workmanship for the aforementioned period. We are obliged to repair or replace defective parts for the duration of the warranty period on our own expense. Defective parts shall be sent to us by our customer solely on his own costs, especially by carriage paid. Credit of the parts shall be reserved. Our warranty does not cover natural wear of components. We are not liable for damage or consequential damage caused by misuse, neglect, excessive use or failure to follow operating instructions. Our entire warranty shall expire immediately when changes or repairs are made without our written consent. Warranty claims under Section 437 German Civil Code which can be claimed in addition to the warranty liability of the supplier shall expire after one year from delivery of the goods.
- Claims for deficiencies or defects which are obvious must be made in writing immediately, at the latest within 10 days of receipt of the goods, accompanied by a detailed description of the deficiencies or defects.
- Claim for hidden defects or deficiencies must be submitted immediately upon detection, at the latest within 10 days of their discovery, together with a detailed description of the defect or deficiency.
- In the case of justified defect claims made within the appropriate period of grace, the goods will be either repaired or replaced at our discretion whereby excluding any further claims. If we decide to replace the goods, the defective shipment becomes our property. If justified claims are also made against the repaired or replacement goods, and if further repair or replacement is not deemed acceptable, then the customer has the right to cancel the contract or require the sale price to be reduced correspondingly. The cancellation or reduction is only applicable to those items which have been the subject of repeated justified claims. The carriage costs incurred as a result of these guarantee clauses will be borne by us. § 476 A) RGB is inadmissible.
- Our statements in regard to the terms and scope of delivery, application (e.g. dimensions, weight, hardness and characteristics) are purely descriptive and do not constitute guaranteed characteristics. The values quoted are intended for guidance and unless specifically agreed to the contrary, they are subject to the variations typical for such quotations in the trade. The characteristics are only considered guaranteed insofar as they have been specifically determined by us on samples for the particular customer application. Minor deviations from such samples or prior shipments, which do not detract from the usability for the projected application, are not considered as justified claims and are not subject to the warranty conditions.
- In particular the following cases are not subject to the guarantee: When the shipment is used for purposes other than those, for which the contract was made, natural wear, incorrect handling by the customer or third parties, such as incorrect storage, storage beyond the normal store life, incorrect installation etc., defects in the component or machine in which the goods are installed (e.g. defective sealing surfaces), the use of incorrect materials, e. g. liquids to be sealed, lubricants etc..

5. Patents and protected rights

- a) All tools, samples, designs, drawings, cost estimates and similar documents, remain the unrestricted property of our company, even when the apportioned costs have been billed to the customer. Our rights of use and title are retained. We are not duty bound to retain machine tools longer than a reasonable retention period. The above mentioned items may not be made available to third parties without our express permission. Drawings and other documents which constitute a part of the contract are to be returned to us on request, in particular in those cases where we are not awarded the contract.
- b) Insofar as we have produced and delivered the contracted goods from drawings, models or samples provided by the customer, the customer is responsible for ensuring that the protected or patent rights of third parties are not contravened. If third parties prevent us manufacturing or delivering as a result of such rights, then we are entitled to stop production or delivery immediately without just cause. In the event of such contravention and to claim damages against the customer. Independent of the above, the customer is bound to free us from all claims caused by contravention of third party protected or patent rights.

6. Retention of title

- a) We reserve the right of title to the delivered goods until all vested interests from the business association, such as interest, auxiliary claims and any legal cost incurred, including the costs of a third party notice resulting from the attachment of the goods by third parties. A seizure of the goods must be reported by the customer.
- b) If the customer fails in arrears in payment, we are entitled to reclaim the right of ownership to the delivered goods as a precaution. This claim and its execution do not constitute withdrawal from the contract, neither does a claim that the delivered goods in question be stored separately and given identification marks.
- c) The customers rights on resale or reused items from such reserved goods are already waived in our favour, together with all auxiliary rights, regardless of whether the goods have, or have not, been processed in any way or the goods have been sold to third parties, then our rights are transferred to the payments due or received from such third parties. The customer is only entitled to use the reserved goods for his normal business operations. This entitlement does not apply to cases under section 2 i)

7. Terms of payment

- a) Unless otherwise agreed, payment is due within 30 days of the date of invoice, in full without deductions.
- b) Unless otherwise agreed, the payment is automatically in arrears on the 30th day after the date on invoice. (§ 294 (2) BGB). Interest at 5% above the Federal German bank rate will then be charged. We reserve the right however to make further arrears claims if necessary.
- c) Unless otherwise agreed by the customer, payments will always be assumed to be made against the longest outstanding invoice, auxiliary claim amounts due against such invoices.
- d) Cheques and bills of exchange are only accepted in payment by prior arrangements and under consideration of all collection costs and discounts, and they are only accepted in payment.
- e) Discounting against our delivery invoices is only allowed in cases where our debt is not disputed or if such a debt has been legally awarded to the customer against us.
- f) Withholding of payment by the customers not permissible.
- g) Should the customers pecuniary circumstances decline, e. g. if a letter of exchange or cheque is not honoured, or when insolvency action is taken against him, or the commencement of equity proceedings, then we are entitled to demand prepayment. At the same time all existing payments due, including those for which we have received letters of exchange, become due for payment immediately.

8. Exceptions to rights of indemnity

- No rights of indemnity of any type exist against us, our legal representatives, servants, and employees, insofar as is legally possible, in particular for cases of minor negligence. It is irrelevant whether such cases are infringements of contract or auxiliary duties such as customer consultancy either verbal or in writing, infringement of obligations at the time of awarding of contract, or due to other unauthorised actions as well as damages consequent on deficiencies, damages due to delays, and any damages due to defective construction. These liability regulations apply equally to our advice, either verbal or in writing, resulting from trials or any other means. Such advice does not exempt the customer from the responsibility to make payment. All claims for damages made against us, regardless of legal basis and regardless of the question of responsibility, lapse 6 months after delivery of the goods, or completion of the plant or other services.

9. Data protection

- We are authorized to collect and save data for the purposes of our business electronically as provided for by the regulations of the Bundesdatenschutzgesetz.
- 10. Applicable law**
The legal relationships between ourselves and our customers are exclusively based on German laws. This applies equally to the drawing up and execution of the contracts. The provisions of UN sales of goods law will not apply.
- 11. Place of jurisdiction and place of delivery**
The place of delivery for all shipments and settlements is Schwarzenbek. The place of settlement for all payments is Schwarzenbek.
Place of jurisdiction is Schwarzenbek for all letters of exchange, cheques and certifications, when the customer is the sole buyer, without damage to our right to utilize the customers local courts should we desire it.
If any individual provision of these terms and conditions becomes void this will not affect the validity of the remaining provisions. The void provision will be replaced by the applicable legal provision.

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