FIRAD®

DIESEL FUEL INJECTION

APPLICATIONS FOR:

DENSO

BOSCH

DELPHI

CONTINENTAL VOD

Regional Distributor
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DENSO

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FIRAD S.p.A.
DIESEL FUEL INJECTION

Premo
INTERNATIONAL PTE LTD



Denso injector

Catalogue

Update 03/2019

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OEM CODES AND PARTS NUMBERS ARE GIVEN FOR REFERENCE PURPOSE ONLY

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ABBREVIATIONS

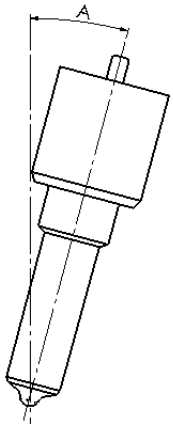
- Holes

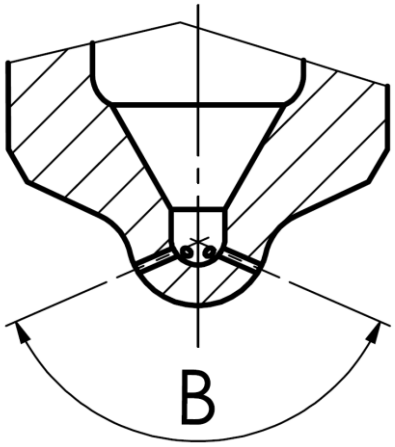
In this section are reported the information about how many micro holes there are and their diameter, in this following way: <N.microholes> x <Diameter microholes>

- Angles

In this section are reported the information related to nozzle and micro holes angular position

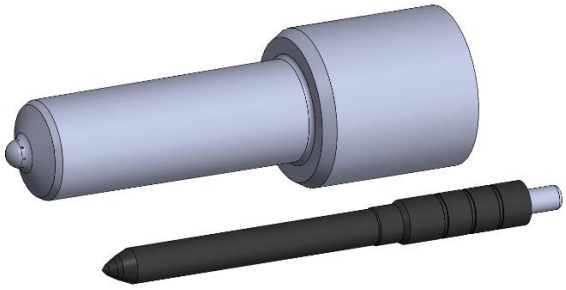
Engine Angle	Spray Angle
A	B





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Denso nozzle (1st and 2nd Generation)



FIRAD code	DENSO® Stamping	DENSO® Injector Code	DENSO® New injector code	DENSO® P/N	OE code	Vehicle/ Engine
ALLA 138 P 934-J	DLLA 138 P 934	095000-6280		093400-9340		
ALLA 142 P 793-J	DLLA 142 P 793	095000-0801		093400-7930		ISUZU – 6SD1 Engine ver. Hong Kong
ALLA 142 P 852-J	DLLA 142 P 852	095000-1210		093400-8520		
ALLA 143 P 761-J	DLLA 143 P 761	095000-0562		093400-7610		ISUZU – 4HK1/6HK1 Engines
ALLA 144 P 690-J	DLLA 144 P 690	095000-0145				ISUZU -4HK1/6HK1 Engines
ALLA 145 P 748-J	DLLA 45 P 748			093400-7480		
ALLA 148 P 915-J	DLLA 148 P 915					
ALLA 149 P 786-J	DLLA 149 P 786	095000-0761		093400-7860		KOMATSU (6156-11-330)
ALLA 150 P 835-J	DLLA 150 P 835	095000-5214		093400-8350		ISUZU 6WG1 Engine HITACHI

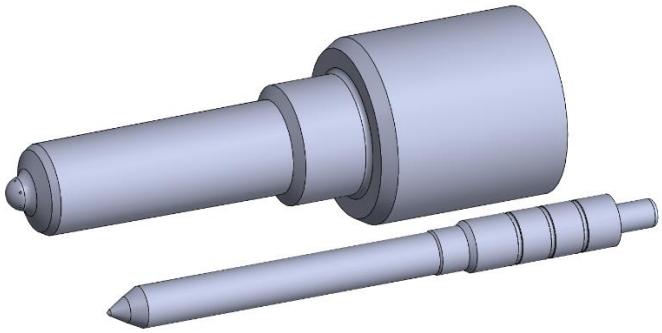
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ALLA 150 P 991-J	DLLA 150 P 991	095000-7172		093400-9910		
ALLA 151 P 771-J	DLLA 151 P 771	095000-0722		093400-7710		ISUZU NISSAN
ALLA 152 P 798-J	DLLA 152 P 798	095000-5014		093400-7980		ISUZU 4HJ1 Engine NISSAN E13C Engine
ALLA 152 P 865-J	DLLA 152 P 865	095000-5510		093400-8650		HINO (E13C Engine)
ALLA 152 P 929-J	DLLA 152 P 929			093400-9290		
ALLA 154 P 669-J	DLLA 154 P 669			093400-6690		ISUZU
ALLA 155 P 683-J	DLLA 155 P 683			093400-6830		
ALLA 155 P 767-J	DLLA 155 P 767	095000-0582				
ALLA 155 P 842-J	DLLA 155 P 842	095000-6591 095000-6593		093400-8420		Hino (Motor J08E)
ALLA 155 P 848-J	DLLA 155 P 848	095000-6350 095000-6353		093400-8480		ISUZU
ALLA 155 P 856-J	DLLA 155 P 856	095000-6603		093400-8560		
ALLA 156 P 799-J	DLLA 156 P 799	095000-5004				ISUZU 6WG1 Engine HITACHI
ALLA 157 P 855-J	DLLA 157 P 855	095000-5450		093400-8550		
ALLA 157 P 969-J	DLLA 157 P 969	095000-8621				
ALLA 158 P 834-J	DLLA 158 P 834	095000-5226		093400-8340		Hino (Motor P13C)
ALLA 158 P 844-J	DLLA 158 P 844	095000-5342				HINO

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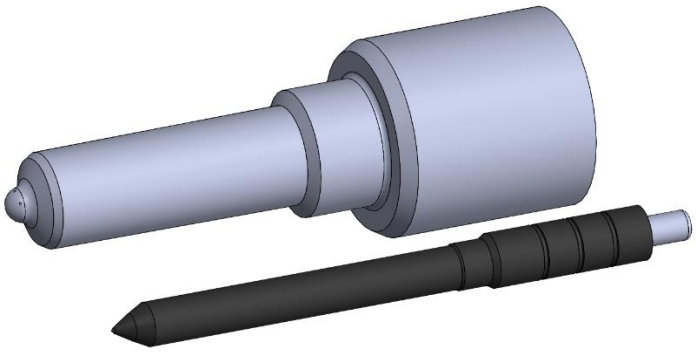
ALLA 158 P 854-J	DLLA 158 P 854	095000-5471 095000-5474		093400-8540		ISUZU 6HK1 ISUZU 4HK1 Sinotruck 230/350/450 Hitachi
ALLA 158 P 909-J	DLLA 158 P 909	095000-5972				
ALLA 158 P 984-J	DLLA 158 P 984	095000-8100		093400-9840		
ALLA 158 P 1092-J	DLLA 158 P 1092	095000-5344				
ALLA 158 P 1096-J	DLLA 158 P 1096	095000-8901		093400-1096		ISUZU VOLVO SERIES 7

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ALLA 150 P 24-J	DLLA 150 P 24					
ALLA 150 P 59-J	DLLA 150 P 59			093400-5590		
ALLA 150 P 61-J	DLLA 150 P 61					
ALLA 152 P 69-J	DLLA 152 P 69					
ALLA 155 P 16-J	DLLA 155 P 16			093400-5160	TOYOTA 23620-56010	
ALLA 155 P 84-J	DLLA 155 P 84					
ALLA 160 P 3-J	DLLA 160 P 3			093400-5030		
ALLA 160 P 50-J	DLLA 160 P 50			093400-5500		

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ALLA 125 P 889-J	DLLA 125 P 889	095000-6480		093400-8890	John Deere RE529149	John Deere Engine 8530/3520/3530
ALLA 127 P 944-J	DLLA 127 P 944	095000-6310		093400-9440		John Deere application 6830 SE
ALLA 127 P 945-J	DLLA 127 P 945					John Deere 4045T, 6068T, S350
ALLA 129 P 890-J	DLLA 129 P 890	095000-6470		093400-8900		John Deere application
ALLA 129 P 983-J	DLLA 129 P 983			093400-9831		
ALLA 133 P 814-J	DLLA 133 P 814	095000-505#		093400-8140	John Deere RE 507860	John Deere Series 9970
ALLA 133 P 888-J	DLLA 133 P 888	095000-6460		093400-8880		John Deere Skidder 8.1 L
ALLA 139 P 851-J	DLLA 139 P 851	095000-5480		093400-8510		John Deere 4045H Series 6820
ALLA 139 P 887-J	DLLA 139 P 887	095000-6490		093400-8870	John Deere RE 529118	John Deere D 7430 Engine 6068HL482

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ALLA 139 P 925-J	DLLA 139 P 925	095000-6500		093400-9250	John Deere RE529414 John Deere RE529117	John Deere Series 30 John Deere 6501
ALLA 145 P 864-J	DLLA 145 P 864	095000-5930	DCRI107760	093400-8640	TOYOTA 23670-09060 TOYOTA 23670-09061 TOYOTA 23670-09360 TOYOTA 23670-0L010 TOYOTA 23670-0L070 TOYOTA 23670-30240 TOYOTA 23670-30300 TOYOTA 23670-39235 TOYOTA 23670-39275 TOYOTA 23670-39276	TOYOTA VIGO TOYOTA HILUX 2.5 2KD TOYOTA HIACE
ALLA 145 P 870-J	DLLA 145 P 870	095000-5600	DCRI105600	093400-8700	MITSUBISHI 1465A041	MITSUBISHI L 200 MITSUBISHI TRITON MITSUBISHI PAJERO
ALLA 145 P 875-J	DLLA 145 P 875	095000-8750		093400-8750		MITSUBISHI PAJERO MITSUBISHI TRITON L200
ALLA 145 P 1024-J	DLLA 145 P 1024	095000-5931		093400-0240 093400-1024		TOYOTA HILUX 2.5 D-4D
ALLA 145 P 1031-J	DLLA 145 P 1031	095000-7500	DCRI107500		MITSUBISHI 1465A279	MITSUBISHI PAJERO

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ALLA 145 P 1049-J	DLLA 145 P 1049					
ALLA 147 P 747-J	DLLA 147 P 747	095000-0570	DCRI100570	093400-7470	TOYOTA 23670-27010 TOYOTA 23670-27030 TOYOTA 23670-29015 TOYOTA 23670-29035 TOYOTA 23670-29036	TOYOTA AVENSIS TOYOTA RAV 4 TOYOTA PREVIA
ALLA 147 P 962-J	DLLA 147 P 962	095000-7011		093400-9620		
ALLA 148 P 763-J	DLLA 148 P 763	095000-0540				John Deere 8.1
ALLA 148 P 764-J	DLLA 148 P 764	095000-0551			John Deer RE501010	
ALLA 148 P 765-J	DLLA 148 P 765	095000-0510	DCRI100510	093400-7650	NISSAN 16600-8H800	NISSANX-TRIAL 2.2
ALLA 148 P 800-J	DLLA 148 P 800			093400-8000		NISSAN PRIMERA
ALLA 148 P 816-J	DLLA 148 P 816					NISSAN XTRAIL
ALLA 148 P 817-J	DLLA 148 P 817	095000-5084		093400-8170		OPEL ASTRA 1.7 CDTI
ALLA 148 P 826-J	DLLA 148 P 826	095000-5190				John Deer Series 8220
ALLA 148 P 872-J	DLLA 148 P 872	095000-5650	DCRI105650		NISSAN 16600-EB300 NISSAN 16600-EB30E	NISSAN NAVARA NISSAN PATHFINDER NISSAN PICK UP
ALLA 148 P 924-J	DLLA 148 P 924	095000-6130	DCRI106130		ISUZU 8-97376270-0 ISUZU 8-97376270-	OPEL ASTRA OPEL CORSA OPEL MERIVA

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					1 ISUZU 8-97376270-2 ISUZU 8-97376270-3 ISUZU 8-97376270-4 ISUZU 8-97376270-5 ISUZU 8-97376270-6 ISUZU 8-97376270-7 ISUZU 8-97376270-8 ISUZU 8-97376270-9 OPEL 5821102 VAUXHALL 97376270	OPEL ZAFIRA VAUXHALL ASTRA VAUXHALL CORSA VAUXHALL MERIVA VAUXHALL ZAFIRA
ALLA 148 P 932-J	DLLA 148 P 932	095000-6240 095000-624002D	DCRI106240	093400-8720	NISSAN 16600-MB40A NISSAN 16600-MB40E NISSAN 16600-VM00D	NISSAN CABSTAR NISSAN CV CABSTAR NISSAN FRONTIER
ALLA 149 P 1036-J	DLLA 149 P 1036	095000-7560				John Deere 3510
ALLA 150 P 815-J	DLLA 150 P 815	095000-7580	DCRI107580	093400-8150	TOYOTA 23670-09030 TOYOTA 23670-09031 TOYOTA 23670-09220 TOYOTA 23670-09250 TOYOTA 23670-0G010 TOYOTA 23670-0G020 TOYOTA 23670-0G030 TOYOTA 23670-0G040	TOYOTA AVENSIS VERSO 2.0

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ALLA 150 P 866-J	DLLA 150 P 866					
ALLA 150 P 914-J	DLLA 150 P 914					
ALLA 150 P 927-J	DLLA 150 P 927	095000-6222 095000-5940				
ALLA 150 P 966-J	DLLA 150 P 966					
ALLA 150 P 1052-J	DLLA 150 P 1052					
ALLA 150 P 1059-J	DLLA 150 P 1059					HYUNDAI mighty county
ALLA 152 P 805-J	DLLA 152 P 805	095000-5030	DCRI107850	093400-8050	MAZDA RF5C 13 H50 MAZDA RF5C 13 H50A MAZDA RF5C 13 H50B MAZDA RF5C 13 H50C MAZDA RFY0 13 H50 MAZDA RFY0 13 H50A MAZDA RFY0 13 H50B	MAZDA 5/6 2.0 MAZDA MPV II
ALLA 152 P 862-J	DLLA 152 P 862	095000-6100	DCRI106980	093400-8620	ISUZU 095000-6983 ISUZU 8-98011604-0 ISUZU 8-98011604-1 ISUZU 8-98011604-2	ISUZU DMAX / KB

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					ISUZU 8-98011604-3 ISUZU 8-98011604-4 ISUZU 8-98011604-5 ISUZU 8-98011604-6 ISUZU 8-98011604-7 ISUZU 8-98011604-8 ISUZU 8-98011604-9 ISUZU 8-98055862-3	
ALLA 152 P 879-J	DLLA 152 P 879					
ALLA 152 P 947-J	DLLA 152 P 947	095000-6250 095000-625002D	DCRI106250		NISSAN 16600-EB700 NISSAN 16600-EB70D NISSAN 16600-EC00A NISSAN 16600-EC00C NISSAN 16600-EC00E	NISSAN NAVARA NISSAN NAVARA NISSAN NP300 NISSAN PATHFINDER NISSAN PICK UP
ALLA 152 P 980-J	DLLA 152 P 980	095000-6980	DCRI106980	093400-9800	ISUZU 095000-6983 ISUZU 8-98011604-0 ISUZU 8-98011604-1 ISUZU 8-98011604-2 ISUZU 8-98011604-3 ISUZU 8-98011604-4 ISUZU 8-98011604-5 ISUZU 8-98011604-6	ISUZU D-MAX I ISUZU KB ISUZU ELF 300

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					ISUZU 8-98011604-7 ISUZU 8-98011604-8 ISUZU 8-98011604-9 ISUZU 8-98055862-3	
ALLA 152 P 981-J	DLLA 152 P 981					
ALLA 152 P 989-J	DLLA 152 P 989			093400-9890		
ALLA 152 P 1072-J	DLLA 152 P 1072	095000-8340			ISUZU P/N 8-98106693-2	
ALLA 153 P 884-J	DLLA 153 P 884	095000-5800	DCRI105800	093400-8840	CITROEN/PEUGEOT 1980.J7 FIAT 71724128 FIAT 71794621 FORD 1372379 FORD 1378432 FORD 1812618 FORD 6C1Q-9K546-AB FORD 6C1Q-9K546-AC FORD RM6C1Q-9K546-AC	CITROËN JUMPER FIAT DUCATO FORD TRANSIT FORD TRANSIT 2.2 Tourneo PEUGEOT BOXER
ALLA 153 P 885-J	DLLA 153 P 885	095000-7060	DCRI107060		FORD 1495919 FORD 1545621 FORD 6C1Q-9K546-BB FORD 6C1Q-9K546-BC FORD RM6C1Q-9K546-BC LAND ROVER LR006803 LAND ROVER LR010137	FORD TRANSIT FORD TRANSIT Tourneo LAND ROVER DEFENDER
ALLA 153 P 958-J	DLLA 153 P 958					

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ALLA 154 P 881-J	DLLA 154 P 881	095000-6290				
ALLA 155 P 750-J	DLLA 155 P 750					
ALLA 155 P 753-J	DLLA 155 P 753	095000-0750	DCRI100750	093400-7530	TOYOTA 23670-30020 TOYOTA 23670-39025 TOYOTA 23670-39026	TOYOTA LAND CRUISER
ALLA 155 P 818-J	DLLA 155 P 818					
ALLA 155 P 840-J	DLLA 155 P 840			093400-8400		
ALLA 155 P 863-J	DLLA 155 P 863	095000-5921		093400-8630		TOYOTA HILUX 3.0
ALLA 155 P 876-J	DLLA 155 P 876	095000-6040	DCRI107640		TOYOTA 23670-09140 TOYOTA 23670-09210 TOYOTA 23670-09290 TOYOTA 23670-0R020 TOYOTA 23670-0R070 TOYOTA 23670-0R120 TOYOTA 23670-0R170	TOYOTA COROLLA Verso TOYOTA RAV 4 III
ALLA 155 P 880-J	DLLA 155 P 880	095000-7030	DCRI107780	093400-9700	TOYOTA 23670-09070 TOYOTA 23670-09330 TOYOTA 23670-0L020 TOYOTA 23670-0L050 TOYOTA 23670-30140	TOYOTA HILUX III TOYOTA LAND CRUISER TOYOTA PRADO

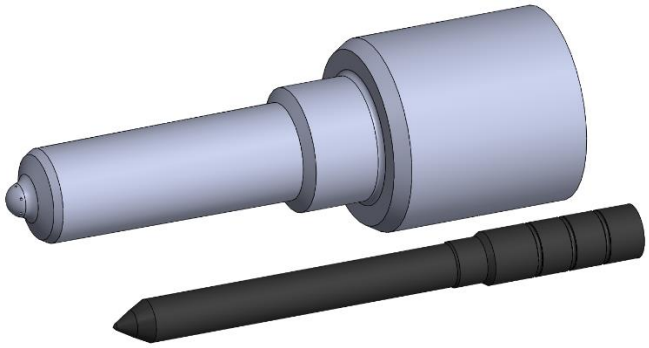
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					TOYOTA 23670-30280 TOYOTA 23670-39185 TOYOTA 23670-39186 TOYOTA 23670-39215 TOYOTA 23670-39216 TOYOTA 23670-39316	
ALLA 155 P 941-J	DLLA 155 P 941	095000-6511				
ALLA 155 P 960-J	DLLA 155 P 960				TOYOTA 23670-0R050	
ALLA 155 P 965-J	DLLA 155 P 965	095000-6700		093400-9650		Sinotruck Howo
ALLA 155 P 970-J	DLLA 155 P 970	095000-7530		093400-9700		
ALLA 155 P 971-J	DLLA 155 P 971	095000-8061 095000-7180		093400-9710		
ALLA 155 P 985-J	DLLA 155 P 985	095000-5890	DCRI107730		TOYOTA 23670-30080 TOYOTA 23670-30180 TOYOTA 23670-30210 TOYOTA 23670-30320 TOYOTA 23670-39135 TOYOTA 23670-39136 TOYOTA 23670-39155 TOYOTA 23670-39156 TOYOTA 23670-39295 TOYOTA 23670-39296	TOYOTA LAND CRUISER TOYOTA PRADO

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ALLA 155 P 1025-J	DLLA 155 P 1025	095000-7781				
ALLA 155 P 1030-J	DLLA 155 P 1030					
ALLA 155 P 1044-J	DLLA 155 P 1044	095000-6520				
ALLA 155 P 1062-J	DLLA 155 P 1062	095000-8290	DCRI107780	193400-0620	TOYOTA 23670-09070 TOYOTA 23670-09330 TOYOTA 23670-0L020 TOYOTA 23670-0L050 TOYOTA 23670-30140 TOYOTA 23670-30280 TOYOTA 23670-39185 TOYOTA 23670-39186 TOYOTA 23670-39215 TOYOTA 23670-39216 TOYOTA 23670-39316	TOYOTA HILUX TOYOTA LAND CRUISER TOYOTA PRADO
ALLA 155 P 1090-J	DLLA 155 P 1090			093400-1090		HOWO SINOTRUCK

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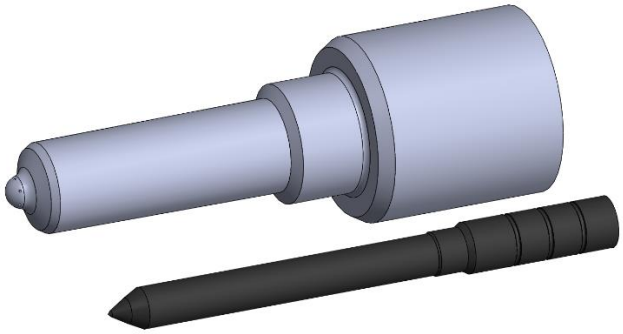


FIRAD code	DENSO® Stamping	DENSO® Injector Code	DENSO® New injector code	DENSO® P/N	OE code	Vehicle/ Engine
ALLA 146 P 768-J	DLLA 146 P 768			093400-7680		
ALLA 155 P 939-J	DLLA 155 P 939	095000-7670	DCRI107670		TOYOTA 23670-09180 TOYOTA 23670-09240 TOYOTA 23670-09280 TOYOTA 23670-0R030 TOYOTA 23670-0R140 TOYOTA 23670-0R190	TOYOTA AURIS TOYOTA AVENSIS TOYOTA COROLLA TOYOTA VERSO

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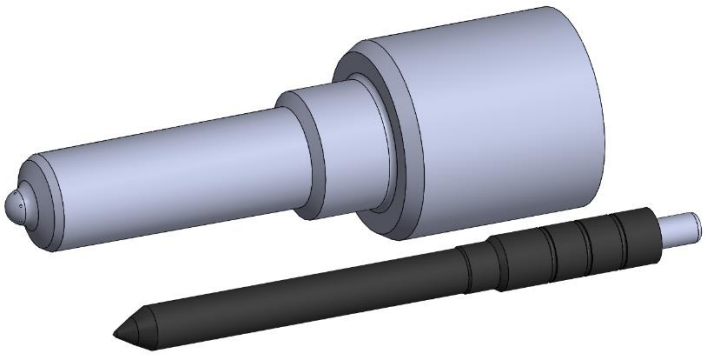
Denso nozzle 3rd Generation

(Needle Ø 3,50 mm)



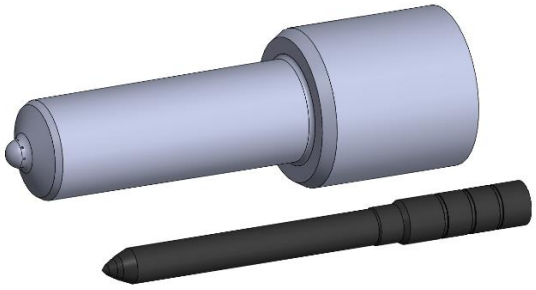
FIRAD code	DENSO® Stamping	DENSO® Injector Code	DENSO® New injector code	DENSO® P/N	OE code	Vehicle/ Engine
ALLA 146 G3S53	G3S53	529 6723 05T 14070 CRN5274954				
ALLA 146 G3S112	G3S112	5344766 2200 07S00263				
ALLA 152 G3S37	G3S37					
ALLA 152 G3S56	G3S56	5284016 G3AM 12Q00065				
ALLA 152 G3S92	G3S92					
ALLA 153 G3S120	G3S120	5365904 G3AM 06T03586				
ALLA 153 G3S127	G3S127	5367913 G3AM 07T02467				
ALLA 154 G3S47	G3S47					ISUZU MAX 2.5

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FIRAD code	DENSO® Stamping	DENSO® Injector Code	DENSO® New injector code	DENSO® P/N	OE code	Vehicle/ Engine
ALLA 144 G3S32	G3S32	295050-0560	DCRI300560		MITSUBISHI 1465A351	MITSUBISHI PAJERO Classic MITSUBISHI PAJERO IV
ALLA 144 G3S33	G3S33	295050-0810	DCRI300810		TOYOTA 23670-09380 TOYOTA 23670-OL110	TOYOTA HILUX 2.5 2KD
ALLA 151 G3S10	G3S10	295050-0300	DCRI300300		NISSAN 16600-1AT0A NISSAN 16600-5X00A	NISSAN MURANO NISSAN NAVARA NISSAN NAVARA NISSAN NP300 NISSAN PATHFINDER NISSAN PICK UP
ALLA 152 G3S7	G3S7					
ALLA 152 G3S51	G3S51	166005X30A				NISSAN FRONTIER Sel 2.5
ALLA 152 G3S82	G3S82	D720112010 E1EC011610 01T01693				
ALLA 153 G3S48	G3S48					
ALLA 154 G3S6	G3S6	295050-0460 095050-052X	DCRI300460		TOYOTA 23670-30400 TOYOTA 23670-39365	TOYOTA HILUX 3.0 4WD TOYOTA LAND CRUISER TOYOTA PRADO

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FIRAD code	DENSO® Stamping	DENSO® Injector Code	DENSO® New injector code	DENSO® P/N	OE code	Vehicle/ Engine
ALLA 146 G3S11	G3S11					
ALLA 151 G3S79	G3S79	1590 04S 01012				
ALLA 151 G3S93	G3S93					
ALLA 154 G3S99	G3S99					
ALLA 158 G3S91	G3S91	1520863011T01106898243863 0				

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FIRAD S.p.A.
DIESEL FUEL INJECTION

Premo
INTERNATIONAL PTE LTD

BOSCH

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COMMON RAIL BOSCH - NOZZLE APPLICATIONS

FIRAD CODE	APPLICATION
ALLA118P1357	***CUMMINS 3 965 721 – 3 973 060***
ALLA118P1358	***CUMMINS 3 965 720***
ALLA118P2234	***CASE 87581565 / CUMMINS 5263305 / KOMATSU 5263305***
ASLA124P1309	***CUMMINS 3 964 273 – 3 968 158***
ASLA124P1659	***DODGE RAM 2500 / 3500 (CUMMINS 4 937 700 – 4 940 051)***
ALLA126P1776	***CUMMINS 4 945 316 / VW 2T2 198 133***
ASLA128P1510	***CDC 3976372 / CUMMINS 3976372 - 4945969***
ASLA 136 P 804	***IVECO DAILY – DUCATO 2.8 / RENAULT MASCOTT 2.8***
ALLA137P1648	***IVECO / CASE/ NEW HOLLAND***
ALLA139P2229	IVECO, FIAT 2.3
ASLA 140 P 862+	RENAULT MEGANE / LAGUNA 1.9 DCI
ASLA140P1033/	IVECO DAILY 29L10-L12 / 35C10-C12-35S10-S12 // RENAULT MASTER
ASLA 140 P1061+	VOLVO 8627319
ASLA140P1142	RENAULT ESPACE IV 1.9 DCI / LAGUNAII 1.9 DCI / MASTER 1.9 DCI / MEGANE 1.9 DCI / SCENIC 1.9 DCI
ASLA140P1723	CUMMINS 4937065 / DCEC 4937065
ALLA140P1790	AMUR/GAZ/MAZ/PAZ (0 445 120 141)
ASLA 142 P 795	CITROEN XANTIA 2.0 HDI (X2) CITROEN XANTIA 2.0 HDI BREAK (X2) PEUGEOT 206 2.0 HDI PEUGEOT 406 2.0 D TURBO PEUGEOT 406 2.0 D TURBO BREAK PEUGEOT 406 HDI
ASLA 142 P 988+	FIAT ULISSE 2.0 JTD (Motore Peugeot)
ALLA142P1321+	OPEL ASTRA / VECTRA / SIGNUM / ZAFIRA 1.9 CDTI
ASLA142P1474	FIAT ULYSSE 2.0 JTD FIAT DUCATO (Motore Peugeot)
ALLA142P1595	DUCATO /DAILY / UAZ PATRIOT – MOTORI 2.3

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ALLA142P1607	ALFA 147 1.9 JTDM / OPEL ASTRA-ZAFIRA-SIGNUM-VECTRA 1.9 CDTI
ALLA142P1709	DONGFEN – CUMINS ENGINE
ALLA142P2262	CUMMINS C5268408
ASLA 143 P970	IVECO 100 E 17 IVECO 65 E 13 / E 15 IVECO 75 E / E 15 / E 17 IVECO 80 E 15 / E 17 IVECO 90 E 17 CUMMINS 4 897 271 CUMMINS 4 897 040 CUMMINS 2 830 244 CUMMINS 2 830 224 CUMMINS 2 830 957 E.E.A. 4897114 E.E.A. 4896444
ASLA143P1058	CUMMINS 4 640 589
ALLA143P1069/	RENAULT – 82000 84534/ 936736/043626
ALLA143P1404	VWW 13.180-15.180-17.210/260-26.260-31.260-8.150-9.150
ALLA143P1448	RENAULT (INJ. 0 445 110 230) LAGUNA – MEGANE – SCENIC 1.9 / 82 00 273 0891 / 82 00 389 369 / SUZUKI 15310 67JGO 000
ASLA143P1523	DFL1 – CUMMINS
ALLA143P1532	CITROEN C2-C3 1.4 HDI / PEUGEOT 206-207 1.4 HDI
ALLA143P1536	IVECO 170/240/260 - IVECO EUROGARGO 100/110/120/130/140/150/160/180 – 65/75/80/90 – IVECO VERTIS 130V18 / 90V16
ALLA143P1541	CUMMINS 3999832 –4940096 - 3970987
ALLA143P1619	MWM-DIESEL 9 6120 46 4 0034 / VW 2T2 130 201 – COSTELLATION 13.180, 15.180, 26.260, 31.260
ASLA143P5519	CUMMINS 5 263 318
ASLA144P890/	CITROEN 2.2 HDI / PEUGEOT 2.2 HDI / FIAT 2.2 HDI / LANCIA PHEDRA 2.2 HDI
ASLA144P971+	CITROEN 2.0 HDI / PEUGEOT 2.0 HDI

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ASLA 144 P 973+	FIAT PUNTO JTD
ASLA 144 P 1021	JTD – FIAT,LANCIA, ALFA ROMEO
ASLA 144 P 1295	ALFA 147 / 156 / 166 (1.9 – 2.4 JTD)
ALLA144P1539	CUM136 - KAMAZ
ALLA144P1707	CUMMINS 4942359 / DCEC 4942359
ALLA144P2273	CUMMINS ISLe
ASLA 145 P 763+	ALFA ROMEO 145 1.9 JTD ALFA ROMEO 146 1.9 JTD ALFA ROMEO 156 1.9 JTD ALFA ROMEO 156 2.4 JTD ALFA ROMEO 166 2.4 JTD FIAT BRAVA 1.9 JTD FIAT BRAVO 1.9 JTD FIAT MAREA 1.9 JTD FIAT MAREA 2.4 JTD FIAT MULTIPLA 1.9 JTD LANCIA KAPPA / LYBRA 2.4 JTD
ASLA145P864+	BMW 530D – 730 D (Mot. / Eng.. E39)
ASLA145P868+	BMW 13 53 2 248 880 BMW 13 53 2 354 045
ASLA145P896+	RENAULT ESPACE 2.2 DCI - 8200010074
ALLA 145 P 926 **ALLA145P926+**	BMW330D – 330XD – 330D TOURING / BMW530D – 530D TOURING – 730D / X53,0D
ALLA145P927+	BMW525D – 525D TOURING / 13 53 7 785 574 – 13 53 7 785 985
ALLA145P928+	BMW 13 53 7 785 983
ALLA145P978	CHRYSLER 05066820AA / VMI 15062036F
ASLA 145 P 979	RENAULT 82 00 010 075

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ALLA145P999	RENAULT KERAX / PREMIUM
ASLA145P1091	RENAULT (INJ. 0 445 110 087)
ASLA145P1115+	RENAULT (INJ. 0 445 110 102) 77 01 473 630 / 82 00 112 289 / 82 00 549 058 / 82 00 936 740 / OPEL 93190330
ALLA145P1223	LAND ROVER FREELANDER 20 DT4 - BMW 13 53 7 789 573
ALLA145P1794/	IVECO STRALIS 450 S33T / 460 S36T / 500 S33T / 530 S36T
ALLA145P1804	MWM DIESEL 9612046 4 0054
ALLA145P2144	CUMMINS
ALLA145P2245	IVECO 80530150 – FIAT 8053015
ASLA146P1055/	CITROEN – PEUGEOT 96 414 961 / 1980 89 / 96 386 523
ALLA146P1296	OPEL 93190346 / 4417364 / 9109795 - RENAULT 82 00 549 063
ALLA146P1405/	PEUGEOT 206.307 1.4 HDI CITROEN XSARA 1.4 HDI
ALLA146P1406/	RENAULT MASTER 2.5 (VARI)
ALLA146P1545	CUMMINS 3 999 834
ALLA146P1581	KHD 0429 0987
ALLA147P788	TOYOTA SR
ALLA148P1067	VWW LT20-35-46 / E DELIVERY 5.140 – 8.150 / EOD 5.140 CHEVROLET BLAZER / S10 NISSAN FRONTIER 2.8 / TERRA 2.8 DIESEL
ALLA148P1238	OPEL ASTRA 1.7 CDTI
ALLA148P1312	NISSAN 16600DB000 -1660DB002 / RVI 7701061083 - RVI 7485001660
ALLA148P1313	NISSAN 16600DC000 / RVI 7701058110 - RVI 7701061090
ALLA148P1334	ISUZU (8 97363 812-0-2-3)

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ALLA148P1347	OPEL ASTRA / VECTRA / ZAFIRA 1.9 CDTI
ALLA148P1407	ALFA /LANCIA 2.4 JTD
ALLA148P1717	NISSAN – 16600VZ220A
ALLA149P1471/	CITROEN C3 / C4 / XSARA / BERLINGO 1.6 HDI - FORD FOCUS / FUSION 1.6 TDCI - PEUGEOT 307 / PARTNER 1.6 HDI
ALLA149P1515/	MOTORI/ENGINES 1.6D - PEUGEOT / CITROEN / VOLVO
ALLA149P2216	HYUNDAI i40 D
ALLA150P1011/	HYUNDAI ACCENT II, MATRIX 1.5 CRDI, SANTA FE, TRAJET 2.0 CRDI
ALLA150P1054	CUMMINS
ASLA150P1072	TOYOTA 23670 0N010 / TOYOTA 23670 0N020 / TOYOTA 23670 33010B / TOYOTA 23670 33030
ALLA150P1076	RENAULT PREMIUM
ALLA150P1197	HYUNDAI 3380027900 – 3380027000/ TUCSON / KIA 285
ALLA150P1224	PUNTO MULTIJET (INJ. 0445110083)
ALLA150P1373	MOTORI/ENGINES 1.6 D – CITROEN / PEUGEOT / VOLVO / FORD
ALLA150P1437	DOBLO / GRANDE PUNTO / IDEA / PANDA 1.3 JTD
ALLA150P1511	HYUNDAY SONATA V 2.0 CDRI
ALLA150P1512	HYUNDAY SANTAFE' D4EB86
ALLA150P1557	NISSAN INTERSTARS 2.5 / OPEL MOVAN 2.5 / RENAULT MASTER- TRAFIC 2.5 TDI
ALLA150P1606	CHEVROLET / OPEL – MOTORI 2.0 CDRI
ALLA150P1622	FAW / GOLDEN DRAGON
ALLA150P1734	FIAT – 55214192 - 55209803 / YPSILON 1.3 MULTIJET
ALLA150P1768	WEICHAI
ALLA150P2147	RENAULT MASTER 2.3 / OPEL MOVANO 2.3 CDTI
ALLA152P1819	WEICHAI

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ASLA153P1242++	MERCEDES BENZ 646 070 0287 – MERCEDES BENZ A646 070 0287
ALLA153P1246++	MERCEDES BENZ 646 070 0187 – MERCEDES BENZ A646 070 0187
ALLA153P1270+	MERCEDES SERIE E200/220/270/320 - S 320
ALLA153P1378	MERCEDES BANZ A160/180/200 CDI - B180/200 CDI / 640 078 04 23
ALLA153P1494	MERCEDES BENZ C200/220 CDI COUPE / CLC/CLD 220 CDI / 646 078 05 87
ALLA153P1608	HYUNDAI / KIA
ALLA153P1721	0.433.172.056 (0445 120 310)
ASLA 154 P 1034	MERCEDES CDI VARIE CC. / SPRINTER VARIE CC.
ASLA154P1320	316CDI SPRINTER / MERCEDES VITO (108 – 110 – 112 CDI) MERCEDES V 200 CDI / MERCEDES V 220 CDI MERCEDES V 220 CDI
ALLA155P1493	MAZDA 2.5 DT
ALLA155P1674	FENIX 1044-1065 / BAW - FAW
ALLA 156 P 889/	MERCEDES 270/320 CDI
ASLA 156 P 736/	MERCEDES 220/270 CDI
ASLA 156 P 737	MERCEDES CLASSE A
ASLA156P1079/+	MERCEDES E 200 CDI / E 220 CDI / E 270 CDI
ALLA 156 P 1107+	MERCEDES VITO (108 – 110 – 112 CDI) MERCEDES E 320 CDI MERCEDES ML 270 CDI MERCEDES S 320 CDI MERCEDES V 200 CDI MERCEDES V 220 CDI MERCEDES CLK270CDI
ALLA156P1111/	MERCEDES 270 CDI

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ASLA156P1113+	MERCEDES C 200-220 CDI / E 200-220-270 CDI
ALLA156P1114	HYUNDAY H1 – STAREX (INJ. 0 445 110 091) KIA SORENT0 2.5 CRDI
ASLA 156 P 1155+	MERCEDES CLASSE A
ALLA156P1265+	MERCEDES C30 CDI AMG – C30 CDI AMGT // MB6120700287 – MB6120700787 – MB6120700787
ALLA156P1367	HYUNDAI (338004A300)
ALLA156P1368	HYUNDAY
ASLA156P1472	MERCEDES C200/220/270 CDI - E200/220/270 CDI
ALLA156P1473	MERCEDES – 613 070 09 87 // A 613 070 09 87 – C200/220 CDI – E200/270 CDI
ALLA156P1509	HYUNDAI – 33800 2A 400 – 1.1 - 1.5 -1.6 CRDi // KIA 1.1 – 1.5 – 1.6 CRDi
ALLA157P1425	MITSUBISHI ME223750, ME223002,
ASLA158P974+	GM 97208074 – ISUZU 2900009130
ALLA158P1385	ISUZU 897303657C
ALLA158P1500	BOSCH 0 433 171 924
ALLA159P1611/	BOSCH 0 433 171 985
ALLA 160 P 1063+	BMW 320D (VARI) / 330 D (VARI) / 530 D / 730D / 740 D
ALLA160P1308	BMW (7 791 518)
ALLA162P2160	NISSAN NAVARA / PATHFINDER

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UNIT INJECTORS PUMPS - BOSCH NOZZLE APPLICATIONS

FIRAD CODE	APPLICATION
ASLA 134 P 816	*IVECO 500338048*
ALLA 140 P 826	*IVECO 500339059*
ALLA140P947	*IVECO*
ASLA140P1100	*RENAULT MAGNUM / MACK E-TECH A / DAF / KHD*
ASLA140P1124	*RENAULT / MACK TRUCKS*
ALLA140P1551	*CASE NEW HOLLAND 504 154 922 / FIAT 504 2871 06 / IVECO 504099014 – 504128354 – 504154922 -504287106*
ALLA143P894/	*IVECO 180E24,E27,190224, 190E27,190E31,190E35,260E24,260E27, 260E31,260E35, 340E35, 380E53, 400E35, 410E35, 440E31, 440E35*
ALLA144P1170	*KHD (INJ. 2112681)*
ALLA144P1264+	*MERCEDES ATEGO / AXOR / UNIMOG U 5000*
ALLA 145 P580/	*IVECO CURSOR 8 / BOSCH EQUIP.*
ALLA145P1534	*IVECO STRALIS*
ALLA147P799	*SCANIA 140410*
ASLA148P1468	VOLKSWAGEN CALIFORNIA 2.5 TDI / TOUAREG 2.5 TDI / TRANSPORTER 2.5 TDI
ALLA 150 P 635	*SCANIA 1497364 8075*
ASLA 150 P 783	*AUDI A2-A4-A6 / 1.4 TDI – 1.9 TDI / SEAT AROSA 1.4 TDI / VW- GOLF - LUPO*
ASLA 150 P 800/	*AUDI A3-A4 / VW PASSAT – POLO – BORA / SKODA-FABIA1.9 –SUPERB 1.9TDI /*

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ALLA 150 P 847	***SCANIA 0574381 7329***
ALLA 150 P848	***SCANIA1497386 8075***
ALLA 150 P 957	***MERCEDES ACTROS (INJ. 0 432 191 437)***
ASLA150P1042	***AUDI A4 / A6 / SKODA SUPERB / VW PASSAT– 1,9TDI***
ASLA 150 P 1043	***AUDI A3 / SEAT LEON /TOLEDO / VW BORA / PASSAT /GOLF 1,9 TDI***
ASLA150P1045	***VW 038130073R***
ALLA150P1120+	***MERCEDES ACTROS – 006 017 47 21, 005 017 39 21***
ASLA150P1156	VW CALIFORNIA T5 2.5 TD - CARAVELLE T5 2.5 TDI - MULTIVANT5 2.5 TDI - TOUAREG 2.5 – 5.0 TDI - TRANSPORTER T5 2.5 T
ALLA150P1163+	***MERCEDES ACTROS – 006 017 50 21, 005 017 45 21***
ALLA150P1164+	***MERCEDES AXOR***
ALLA150P1239	***SCANIA 1483 788***
ASLA150P1247	***AUDI / SKODA / SEAT /VW 1,9 TDI (Mot. AXR)***
ASLA150P1248	AUDI A2 1.4 TDI - AUDI 4 1.9 TDI - AUDI A6 1.9 TDI
ASLA150P1586	***VOLKSWAGEN CALIFORNIA 2.5 TDI / TRANSPORTER 2.5 TDI / CARAVELLE 2.5 TDI / MULTIVAN 2.5 TDI***
ASLA152P1287++	VW 03G130073
ALLA 154 P 596/	***MERCEDES ACTROS***
ALL 155 P 15221 = 789	***HATZ 50468000***
ALLA 155 P 572/	***VOLVO FH12 / BOSCH EQUIP.***
ALLA 155 P 765	***VOLVO FH 12 / EURO I-II (BOSCH - MARK2 PUMP)***
ALLA 155 P 872	***VOLVO FH12 EURO II / BOSCH EQUIP.***
ALLA 156 P 819+	***MERCEDES ACTROS***

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ALLA 156 P 850+	***MERCEDES ATEGO***
ALLA156P1059+	***MB ATEGO, CITARO - MB004 017 8121, 005 017 77 21***
ASLA156P1381	***VW 038 130 079 J - 038 130 073 BR***
ASLA156P1411	***MERCEDES ACTROS / ATEGO - MB028 07469 02***
ALLA 160 P 577	***MERCEDES ACTROS***
ALLA160P1032+	MERCEDES CITARO (VARI –VARIOUS)

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FIRAD S.p.A.
DIESEL FUEL INJECTION

Premo
INTERNATIONAL PTE LTD



Piezoelectric injector

Catalogue

Update 03/2019

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ABBREVIATIONS

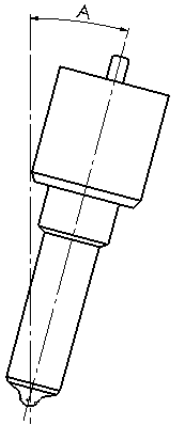
- Holes

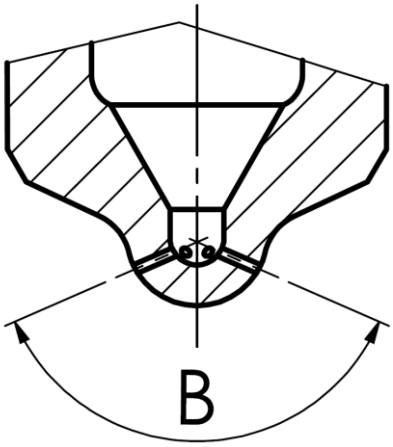
In this section are reported the information about how many micro holes there are and their diameter, in this following way: <N.microholes> x <Diameter microholes>

- Angles

In this section are reported the information related to nozzle and micro holes angular position

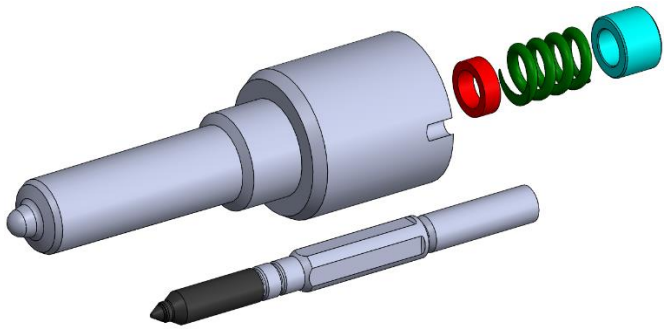
Engine Angle	Spray Angle
A	B



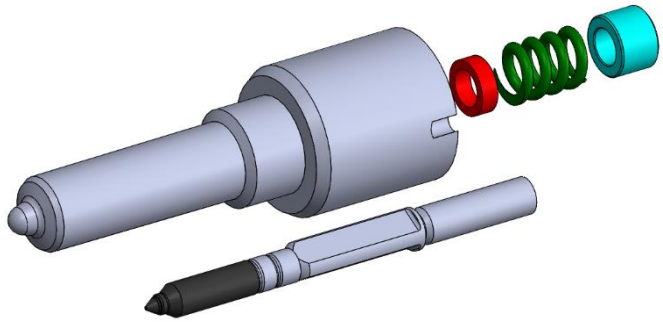


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Bosch piezoelectric nozzle



FIRAD code	BOSCH® Stamping	BOSCH® Injector Code	OE code	Vehicle/ Engine
PEF 05AW	F00VX30005	0 445 115 037		VW - Audi 3,0



FIRAD code	BOSCH® Stamping	BOSCH® Injector Code	OE code	Vehicle/ Engine
PEF 02R	F00VX30002	0 445 115 007		Renault (Espace-Laguna 2,0 DCi-Koleos)
PEF 07	F00VX30007			BMW 2.0
PEF 10	F00VX20010	0 445 115 063		Mercedes-Jeep-Crysler
PEF 14+	F00VX40014+	0 445 115 028		VW CRAFTER 2,5 TDI
PEF 17	F00VX20017	0 445 115 069		Mercedes - Vito - Sprinter
PEF 26	F00VX30026	0 445 116 001		BMW 120-320-520 X3 2,0d
PEF 29	F00VX40029	0 445 116		AUDI A3-A4 2.0 TDI /

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FIRAD code	BOSCH® Stamping	BOSCH® Injector Code	OE code	Vehicle/ Engine
		035 0 445 116 029		VW GOLF- PASSAT 2.TD1
PEF 30	F00VX40030	0 445 116 015		VW - Tuareg 3.0 / AUDI A4 - A6 2.7 -3.0 TDI
PEF 31	F00VX40031	0 445 116 011		VW Jetta
PEF 38	F00VX50038			
PEF 39	F00VX40039	0 445 117 020		VW- Audi (Q7 4,2 TDI)
PEF 42	F00VX40042 (0)			
PEF 43	F00VX40043	0 445 116 025		Mercedes E300 / CLS350
PEF 51	F00VX40051			Chevrolet/GMS Silverad/Sierra
PEF 60	F00VX40060	0 445 117 016	FORD BC3Q9K546AD	Ford F250/350
PEF 63	F00VX30063 (0)			
PEF 68	F00VX40068			
PEF 80	F00VX40080			
PEF 115	F00VX40115			Ford F250/350/550/650/750
PEF 376	B437176376	0 445 120 298 0 445 120 299		Actros Euro 6

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Bosch Piezoelectric Nozzle
Geometric Features

FIRAD code	BOSCH® Stamping	BOSCH® Injector Code	Engine angle	Spray angle	Holes
PEF 02R	F00VX30002	0 445 115 007	0°	150°	6 x 0,140
PEF 05AW	F00VX30005	0 445 115 037	0°	158°	7 x 0,145
PEF 07	F00VX30007		0°	159°30'	6 x 0,155
PEF 10	F00VX20010	0 445 115 063	0°	157°	8 x 0,130
PEF 14+	F00VX40014+	0 445 115 028	24°	165°	7 x 0,140
PEF 17	F00VX20017	0 445 115 069	0°	158°	7 x 0,140
PEF 26	F00VX30026	0 445 116 001	0°	159°	7 x 0,140
PEF 29	F00VX40029	0 445 116 035 0 445 116 029	0°	162°	8 x 0,120
PEF 30	F00VX40030	0 445 116 015	0°	158°	8 x 0,125
PEF 31	F00VX40031	0 445 116 011	0°	163°	8 x 0,115
PEF 38	F00VX50038		0°	141°	6 x 0,195
PEF 39	F00VX40039	0 445 117 020	0°	158°	8 x 0,120
PEF 43	F00VX40043	0 445 116 025	0°	157°	8 x 0,130
PEF 51	F00VX40051		0°	160°	8 x 0,130
PEF 60	F00VX40060	0 445 117 016	0°	150°	8 x 0,145
PEF 115	F00VX40115		0°	150°	8 x 0,140
PEF 376	B437176376	0 445 120 298 0 445 120 299	0°	146°	7 x 0,195

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FIRAD S.p.A.
DIESEL FUEL INJECTION

Premo
INTERNATIONAL PTE LTD

DELPHI

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COMMON RAIL DELPHI - NOZZLE APPLICATIONS

FIRAD CODE	APPLICATION
ASLA144FL087	RENAULT CLIO - DELPHI EQUIP. L087PBD
ASLA144FL120	RENAULT - DELPHI EQUIP. L120PBD
ALLA145FL077	DELPHI L077PBD
ASLA146FL109	CITROEN C3 1.4 HDI – DELPHI EQUIP. L109PBD
ASLA146FL138	SSANYONG - REXTON
ASLA148FL157	DELPHI L157PBD
ALLA150FL076	DELPHI L076PBD
ASLA150FL097	KIA CARNIVAL (L097PBD)
ALLA150FL121	FORD FOCUS 1.8 TDCI – DELPHI EQUIP. L121PBD
ALLA150FL236	MERCEDES E/C 220
ALLA150FL381	DELPHI L381PRD
ASLA153FL096	FORD MONDEO2.0 TDCI - DELPHI EQUIP. L096PBD
ASLA154FL133	FORD MONDEO 2.0 TDCI (130) – DELPHI EQUIP. L133PBD
ASLA154FL134	FORD MONDEO 2.0 TDCI (115) – DELPHI EQUIP. L134PBD
ASLA154FL135	FORD MONDEO 2.0 TDCI (EU4) – DELPHI EQUIP. L135PBD
ASLA154FL145	FORD TRANSIT 2.4 (EU3) DELPHI EQUIP. L145PBD
ASLA156FL136	DELPHI L136PBD
ALLA156FL281	DELPHI D281
ASLA158FL137	HYUNDAY CARNIVAL2 / SEDAN2 / TERRACAN 2.9 CRDI
AFTL128	FORD TRANSIT – DELPHI EQUIP. L128PBD

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UNIT INJECTORS PUMPS - DELPHI NOZZLE APPLICATIONS

FIRAD CODE	APPLICATION
ALLA124FL225	*DELPHI L225PBC*
ALLA130FL022	*JOHN DEER 6125 H*
ASLA142FL030	*LAND ROVER - DELPHI EQUIP. L030PBC*
ALLA143FL011	*JOHN DEER - DELPHI EQUIP. L011PBB*
ALLA145FL311	*DELPHI L311PBC*
ALLA146FL263	*DELPHI L263PBC*
ALLA148FL216	*VOLVO - DELPHI EQUIP. L216PBC*
ALLA149FL207	DELPHI L207PBC - VOLVO VN
ALLA150FL052	DELPHI L052PBC
ALLA150FL053	DAF - F105 / DELPHI EQUIP. L053PBC
ALLA150FL194	*DELPHI - L194PBC*
ALLA150FL229	*VOLVO - DELPHI EQUIP. L229PBC - VOLVO 3829087*
ALLA150FL322	*DELPHI L322PBC*
ALLA150FL358	*DELPHIL358PBC*
ALLA150FL240	*L240PBC - VOLVO*
ALLA152FL025 / FL221	*VOLVO - DELPHI EQUIP. L025PBC*
ALLA152FL028 / FL222	*VOLVO - DELPHI EQUIP. L028PBC*
ALLA152FL045	*HYUNDAI*
ALLA152FL215	*DELPHI L215PBC*
ALLA152FL232	*DELPHI L232PBC*

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ALLA152FL233	***DELPHI L233PBC***
ALLA153FL195	***DELPHI L195PBC***
ALLA154FL026	***DELPHI L026PBC***
ALLA154FL211	***DELPHI L211PBC – VOLVO D13A 480CV FH/FM***
ALLA154FL223	***DELPHI L223PBC - VOLVO FM9 D9A***
ALLA155FL210	***DELPHI L210PBC***
ALLA156FL357	***DELPHI L357PBC***
ALLA158P4820	***VOLVO FH12 420HP / DELPHI EQUIP. L014PBB***
ALLA158P5040	***VOLVO FH12 420HP / DELPHI EQUIP. L014PBB***
ALLA158P7154	***VOLVO FH12 / DELPHI EQUIP. LP004B***
ALRL023	***LAND ROVER TD5 - DELPHI EQUIP. L023PBC***
M001CTA	***9170049A -VOLVO FH12 7 DELPHI EQUIP. L001CTA***

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CONTINENTAL VDO

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POLVERIZZATORI TIPO SIEMENS - CONTINENTAL / SIEMENS - CONTINENTAL NOZZLES TYPE

CODICE FIRAD / FIRAD CODE	CODICE ORIGINALE / ORIGINAL CODE	INFORMAZIONI ADDIZIONALI / ADDITIONAL INFORMATION
ALLA140PM019	*M0019P140*	*FORD RANGER "PUMA"*
ASLA142PV600	*V0600P142*	*PEUGEOT 307 / PARTNER 406 FACELIFT / 407* *CITROEN BERLINGO / XSARA / C5*
ALLA142PM604	*M0604P142*	*PEUGEOT 307 / 1007 - CITROEN C1/C2/C3* *FORD FIESTA FUSION*
ASLA144PV602	*V0602P144*	*PEUGEOT1007/307 – TOYOTA AYGO – MAZDA2 - CITROEN C1/C2/C3*
ASLA144PV605	*V0605P144*	*PEUGEOT 307 / 1007 - CITROEN C1/C2/C3* *FORD FIESTA FUSION*
ALLA147PM007	*M0007P147,6*	*CLIO,SCENIC,MODUS,MEGANE/QASHQAI,TILDA*
ALLA152PM1001	*M1001P152*	*FORD GALAXY / S-MAX / MONDEO*
ALLA150PM1600	*M1600P150*	*FORD RANGER*
ASLA152PV203	*V203P152*	*VW 2.0 TDI (140 HP)*
ALLA152PM1003	*M1003P152*	FORD 1.8 TDci / 2.0 TDci FOCUS C-MAX, C-MAX, GALAXY MONDEO III/IV, S-MAX

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ALLA153PM003	***M0003P153***	***PEUGEOT 307 / 407 / 607 / 807*** ***CITROEN C5 / C8 / XSARA*** ***FORD C-MAX***
ALLA153PM005	***M0005P153***	***2.0 HDI CITROEN JUMPY / FIAT ULYSSE, FIAT SCUDO***
ALLA153PM601	***M0601P153***	
ALLA154PM012	***M0012P154***	***PEUGEOT, CITROEN, FITA, FORD, MAZDA, VOLVO 1.6 dCi***
ALLA155PM008	***M0008P155***	***RENAULT CLIO, DACIA DUSTER 1.5 dCi***
ALLA162PM011	***M0011P162***	***ENGINE TYPE CAY – VW / AUDI / SEAT / SKODA*** ***1.6 TDI / 2.0 TDI***
ALLA153PM1002	***M1002P153***	***PEUGEOT 407 / CITROEN C6***
ALLA156PM002	***M002P156***	

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