



Nozzles and spare parts for  
**BOSCH® PIEZO INJECTORS**  
suitable for many European vehicles

Piezoelectric technology is the modern Common Rail diesel heart. Its innovative technology led to greater efficiency, performance and reduced emissions. The crystal component is fundamentally critical: it generates an electrical charge when a mechanical stress is applied likewise changes its shape when an electrical charge is applied as well. It acts up to 5 times faster than a standard injector solenoid and motion is frictionless. The greatest advantage of Piezo technology is fuel delivery rate and precision since the actuator can be easily activated and deactivated.

At the 2003 Frankfurt Motor Show, Siemens®, Bosch® and Delphi® all launched piezoelectric fuel injection systems. Piezo actuators appeared on Bosch's third-generation Common Rail system on Audi's new 3L V-6 TDI engine that is optional on the A8 flagship.

Check out in next pages our Piezo Common Rail products suitable for Bosch®.



## NOZZLES

Seven Code	Stamping	DLC	Injector No.	Main Applications
71P210 ●●	F00VX20010	DLC	0445 115 026 0445 115 027 0445 115 063 0445 115 064 0445 115 071 0445 115 072 0445 115 075 0445 115 076	Chrysler 300C, Jeep Commander and Grand Cherokee, Mercedes Benz C, CLK, CLS, E, G, GL, GLK, ML, R, Sprinter, Viano and Vito
71P217	F00VX20017	DLC	0445 115 032 0445 115 068 0445 115 069 0445 115 073	Mercedes Benz Sprinter, Viano and Vito
71P307	F00VX30007	DLC	0445 115 008 0445 115 048 0445 115 070	BMW 330, 530, 730, X3 and X5
71P322 ●●	F00VX30022	DLC	0445 115 034 0445 115 036 0445 115 037 0445 115 051 0445 115 052 0445 115 078 0445 115 079 0445 115 082	Audi A4, A6, A8 and Q7, Volkswagen Phaeton and Touareg
71P326 *	F00VX30026	DLC	0445 116 001	BMW 120, 320, 520 and X3
71P341 ●●	F00VX30041	DLC	0445 116 024	BMW 120, 320, 325, 330, 520, 525, 530, 730, X1, X3, X5 and X6
71P379 *	F00VX30079	DLC	0445 117 030	BMW 125, 225, 325, 335, 425, 435, 525, 535, 640, 740, X1, X3, X4, X5 and X6
71P401 *	F00VX40001	DLC		See 71P423
71P414 ●●	F00VX40014	DLC	0445 115 028 0445 115 029 0445 115 030	Volkswagen Crafter
71P421 ●●	F00VX40021	DLC	0445 115 050 0445 115 077	BMW 330, 335, 530, 535, 635, X3, X5 and X6

DLC (Diamond-Like Carbon) = needle with special black coating



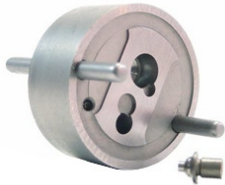
## NOZZLES

Seven Code	Stamping	DLC	Injector No.	Main Applications
<b>71P423</b> *	F00VX40023	DLC	0445 115 018 0445 115 019 0445 115 038 0445 115 039 0445 115 040 0445 115 053 0445 115 054 0445 115 057 0445 115 058 0445 115 080 0445 115 081 0445 115 085	Audi A4, A6 and A6 Allroad 2.7 TDI
<b>71P429</b> ••	F00VX40029	DLC	0445 116 004 0445 116 029 0445 116 030 0445 116 034 0445 116 035	Audi A3, A4, A5, A6, Q5 and TT, Seat Altea, Exeo, Leon and Toledo, Skoda Octavia, Superb and Yeti, Volkswagen EOS, Golf V, Golf VI, Jetta, Passat, Scirocco and Tiguan
<b>71P430</b> ••	F00VX40030	DLC	0445 116 007 0445 116 008 0445 116 014 0445 116 015 0445 116 022 0445 116 023	Audi A4, A5, A6, Q5 and Q7, Porsche Cayenne and Volkswagen Touareg
<b>71P460</b> *	F00VX40060	DLC	0445 117 015 0445 117 023	Ford Powerstroke 6.7L for F Series Pickups
<b>71P465</b> ••	F00VX40065	DLC	0445 116 039 0445 116 072	Audi A4, A5, A6, A7, A8 and Q5 3.0 TDI
<b>71P466</b> ••	F00VX40066	DLC	0445 117 021 0445 117 022 0445 117 076	Audi A4, A5, A6, A7, A8 and Q7, Porsche Cayenne and Panamera, Volkswagen Touareg
<b>71P478</b> *	F00VX40078	DLC	0445 117 028 0445 117 070	Audi A6, A6 Allroad, A7 and SQ5 and Porsche Panamera

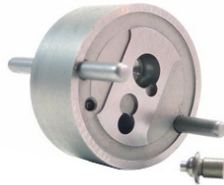
DLC (Diamond-Like Carbon) = needle with special black coating



## INJECTORS SPARE PARTS



**17005**  
Valve Piezo  
For 0445 115 ...



**170051**  
Valve Piezo  
For 0445 116/117 ...



**17039**  
Leak off connector  
1 way  
(Min. 5 pcs)



**170391**  
Leak off connector  
2 ways  
(Min. 5 pcs)



**170392**  
Leak off connector  
1 way  
(Min. 5 pcs)



**170393**  
Leak off connector  
2 ways  
(Min. 5 pcs)



**17040**  
F00V C17 503  
15 x 7 x 1,5  
(Min. 50 pcs)



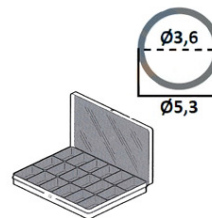
**17044**  
F00V P01 004  
13 x 7,3 x 1,5  
(Min. 50 pcs)



**17045**  
F00V P01 008  
12 x 7,7 x 2  
(Min. 50 pcs)



**17046**  
F00V P01 009  
14 x 7,7 x 2 (Min. 50  
pcs)



**17075**  
Shim Kit Ø5,3x3,6  
120 pcs. for Piezo



**17080**  
Nut Ø19 – L. 46 – M17  
Hexagonal



**17081**  
Nut Ø19 – L. 47 – M17  
Heptagonal



**17082**  
Nut Ø19 - L.45,3 - M17  
Octagonal



**17083**  
Nut Ø19 – L. 47 – M17  
Hexagonal



**17090**  
O-ring 22x2 mm  
(Min. 100 pcs)



## INJECTORS SPARE PARTS



## TOOLS

