

2020 CATALOG



DW
DEATSCHWERKS



DeatschWerks is a company dedicated to researching, developing, manufacturing, and supplying the latest in high-performance fuel systems solutions. DW has built its name on combining high quality and ease of use into every product we sell.

HISTORY

2005

DeatschWerks is established with a 650cc Side Feed Fuel Injector for Nissans.



2011

Distribution of DW products expands internationally to over 200 dealers, covering more than 20 countries.



2007

Over 100 new Injector part numbers added to provide full coverage for sport compact applications.

2010

DW leaps into the Fuel Pump market with the release of the revolutionary DW300. At over 300lph it was the highest flowing In-tank Fuel Pump on the market.



2016

DW edges closer to a full fuel system offering with the release of Adjustable Fuel Pressure Regulators and takes a step into the future by releasing the first and only commercially available high-flow GDI EcoBoost Injectors.



2014-2015

Product expansion ramps up with the release of Surge Tanks, In-line Fuel Pumps, Subaru Fuel Rails, and Fuel Filters alongside production of several new Injectors and Fuel Pumps.



2017-2019

The Fuel Pressure Regulator line expands to support applications up to 2000hp. DW's new innovative fuel rail line and DW400 in-tank fuel pump hit the market.



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2013

DW releases the industry's most comprehensive Bosch EV14 injector line-up. The offering covers select sport compact applications, a full universal line, and a modern muscle line complete with calibrations for Ford and GM.

2012

DW expands its Fuel Pump line with two new offerings. The 255lph DW200 and compact fitment 265lph DW65c.



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INJECTOR TUNING DATA

Fuel injector characterization is critical for a proper tune. DW provides injector data in several formats to support the needs of our customers, and calibrators.

Injector Data

Injector specifications, flow rates, and battery offsets are provided on the product page for every single injector that DW sells.



Nominal Static Flow Rate						
	10psi	20psi	30psi	40psi	50psi	60psi
Flow Rate (gph)	14.02	46.07	98.00	151.97	194.97	238.95
Flow Rate (lph)	12.00	41.67	83.33	125.00	166.67	208.33
Pressure (PSI)	10.00	20.00	30.00	40.00	50.00	60.00

Please note: These rates listed are the nominal (open nozzle) rates for this injector part number. All fuel injectors will vary. For actual flow rates of your set, please refer to the flow report that will accompany your order.

Battery Offset Calculator

The battery offset calculator allows you to create a customized battery offset table for any DW injectors based on the pressures, and voltages you require.

Modern Muscle Calibration Summaries

Ford, GM, and Dodge Tuners all require data in the formats they are familiar with. All DW injectors come with the specifically formatted data that calibrators are looking for. For Ford that means data in the familiar Ford Calibration Summary format, including offsets, lo slope, hi slope, break point, minimum pulse, and pressure compensators. For GM our data tables include offsets, flow vs. pressure, short pulse adder, and minimum pulse width vs. RPM. And for Dodge we've got all the Hellcat tuning data you need.

Ford Fuel Injector Calibration Summary PN: 170-00-0000-A_12V-03-00000_E_12V-03-00-00000		
Target Injection Pressure = 35.05 psi	10psi	20psi
Offset	-0.00	-0.00
Lo Slope	-0.00	-0.00
Hi Slope	-0.00	-0.00
Break Point	-0.00	-0.00
Min Pulse	-0.00	-0.00
Pressure Comp	-0.00	-0.00

Sport Compact Calibration Data

DeatschWerks has injector data formatted for many popular sport compact applications such as Honda, Nissan, Subaru, and Mitsubishi. Scalers, latencies, minimum pulse widths, and other essential data can be found in formats ready for plug and play into your Hondata, Cobb AP, or ECU Flash software.

Stand-alone Calibration Data

DW has injector data for many of our most popular injectors formatted specifically for standalone systems, such as Fuel Tech, Haltech, Holley, and MoTeC.

PUMP INSTALL GUIDES

If you have questions about installing your DW fuel pump, our install guides will walk you through step-by-step.



Fuel Pump Characterization Data

DW has performed extensive testing of their fuel pumps at a wide range of pressures and voltages. This data characterizes the performance of the pump over all possible operating conditions. Pump characterization data can be especially useful to customers designing demand-regulated returnless fuel systems. Only DW offers such extensive data.

FUEL INJECTORS

DeatschWerks Injectors combine precision, fitment, data, and value to maximize your performance outcome



DW pioneered the application specific fitment approach to high performance fuel injectors in 2005 when “universal” was the standard. This passion for innovation has continued over the years and has culminated in the current lineup which represents the most comprehensive and best-supported injector line in the industry.

Most Comprehensive Offering

Fuel injectors are not a one-size-fits-all type of product. The right fuel injector must combine the elements of fitment, coil impedance, flow rate, and tuning data into one injector specific to your engine's needs. This is a lot to ask of an injector lineup consisting of only a handful of options. In addition to a full EV14 line with flow rates from 440cc to 2200cc, the DW line consists of many unique injector offerings that our competitors neglect:

- Low impedance up to 1800cc
- Gasoline Direct Injection (GDI)
- Sidefeed injectors up to 1000cc
- Brands from Denso, SMP, Hitachi, and Delphi
- 6 Different electrical connector configurations

An offering this comprehensive can be difficult to navigate. Knowing this, DW has maintained an application-specific approach to fuel injectors to make shopping a simple 3 step process:

1. Use our online calculators to find the flow rate you need.
2. Use our online year, make, model look up to find part numbers for your vehicle.
3. Use the support tab on our homepage to find your tuning data.
4. Call our support team for help selecting the right product for your build

The Application Specific Approach

In 2005 DeatschWerks revolutionized the fuel injector market by offering drop-in fitment, application specific fuel injectors. Before then, universal fuel injectors were the norm and customers were left to their own means to choose, fit, and tune their injectors. When you shop at DW, you shop year, make, and model. All the injectors listed for your model are engineered to fit your OE harness, OE fuel rail and OE manifold. DW customers spend less time installing and tuning, and more time enjoying the increased performance of their car.

Proper Data is a Must

The right tool, used incorrectly, yields substandard results at best. Fuel injectors follow this same universal law. Proper data is required for proper tuning. All DW injectors are fully characterized in-house via SAE J1832 standards. Injector data is available in General Characterization Summaries and Application Specific formats. Using the data is easy. Often it is cut and paste from the DW excel sheet to the tuning software.

Development of accurate injector data is a complex process, but there are no shortcuts to a proper calibration. DW has developed specially designed and calibrated flow benches utilizing digital flow meters, which are required to measure the precise fuel mass needed for proper characterizations. The data acquisition process consists of collecting over 450 data points per injector part number. These data points cover pulse widths, pressures, and voltages that the injectors will experience once installed in your engine. The collected data is statistically analyzed, scrubbed and formatted into a General Characterization Summary. This Summary can then be formatted into application specific formats for different makes, models, and tuning platforms. The application specific data is then in-car optimized by one of our tuning partners.





EV14 Technology



HIGHER FLOW



FASTER RESPONSE



RACE FUEL
COMPATIBILITY

DeatschWerks EV14 sets the bar for high performance fuel injection with the latest Bosch technology. Higher flow rates, faster response times and race fuel compatibility are what sets DW EV14's apart from all others. EV14's come with full characterization data for easy tuning. Most EV14 injectors have stainless steel internals for compatibility with ethanol blended fuels, methanol blended fuels and MTBE-oxygenated fuels including Q16.

Dynamic Flow Matching

Quality injectors mated to proper calibration data will still perform poorly as a system if the injector set is not properly flow matched. The DW dynamic flow matching process ensures each set works together as a system to fuel your engine properly. Fuel injectors do not operate in a static state so why test them in a static state? In the engine, fuel injectors are a very dynamic component, constantly changing frequencies and pulse widths to precisely deliver the fuel needed. The DW multi-point dynamic flow testing process mimics these conditions by testing at multiple pulse widths within each of the ranges below:



Low Range (1-2 milliseconds) – Low pulse widths are used during idle, light throttle cruising, and deceleration. However, expensive electronic flow meters are required for accurate testing in this range so few companies actually balance their injectors this low. Low pulse width balancing is crucial for a smooth idle on large injectors.

Transitional Range (2-4 milliseconds) – The transitional range covers the pulse widths that typically make up the non-linear range of injectors. Although most DW injectors are linear well into the low pulse width range, transitional balance is important because many high flow injectors spend a majority of time in this range.

Linear Range (4-10+ milliseconds) – The linear range pulse widths are used during medium and high load conditions. Proper balancing in this range allows for advanced timing and increased boost pressure to yield higher and safer peak horsepower. Many companies that dynamically balance their injectors only flow test in the linear range.

Direct Injection

Gasoline Direct Injection (GDI) is the future of automobile fuel delivery, and DeatschWerks offered the first commercially available high-flow GDI injectors.

- 1700cc/min @ 100 bar
 - 30% increase in flow over OE injectors
- OE Spray Pattern
 - Patent Pending Technology retains OE start up, fuel economy and drivability
- Street Tested
 - Thousands of miles logged on all applications offered
- Currently Available for Popular Ford Applications
 - 2.3L Ecoboost Mustang
 - 3.5L Ecoboost F-150
 - 2.0/2.3L Ecoboost Focus ST/RS
 - More Applications Coming Soon!



2.0L EcoBoost



HDEV 1700



3.5L EcoBoost

FUEL PUMPS

DW offers more fuel pump options to deliver the flow you want with the fitment you need



Fuel pumps are not a one-size-fits-all type of product. Proper fuel delivery to your engine involves combining the right fitment and the right flow. This is why the DW fuel pump line is built to cover 7 different dimensional formats each having different fluid connections, electrical connections, diameters, and lengths. DW pump formats cover standard fitment in-tank, compact fitment in-tank, specialty fitment in-tank, and 2 different universal in-line pumps. Each pump format is available in up to 4 different flow rates yielding over 20 different format+flow combinations to ensure you have the right pump for your build.

Application Specific Fitment

DW pioneered fuel injector application specific fitment. That experience has been applied to the DW line of fuel pumps. To achieve this feat, DW has built a library of over 100 different OE fuel pump modules from which application specific fitment kits can be made.



First the proper format+flow combinations are selected. Then the O-rings, electrical connectors, clamps, filters, and spacers are chosen. Next, the pump is installed and bench tested in the OE module to ensure proper fitment and performance. Lastly, the entire process is documented and published into step-by-step illustrated instructions, which can be downloaded from our website and used by the customer during installation. Application specific product development is a complex process, but DW has made it easy for the end customer... All you have to do is choose your year, make, and model.

High Torque = High Flow

A fuel injected internal combustion engine is a dynamic system. Fuel flow requirements vary greatly by rpm and load. However, one law remains universal: forced induction applications require more flow at higher pressures. Knowing this fact, DW has engineered their fuel pumps to maximize flow at higher pressures. By designing the armature for torque bias, delaying pressure relief activation, and maximizing impeller efficiency; DW has created a line of pumps with an extremely flat flow curve. Higher flow at higher pressure delivers the fuel your engine demands.



9-309-1018 Fitment Kit and Pump

Every DW Fuel Pump comes with a direct fit or universal install kit, including all the hardware needed to install the fuel pump as well as a filter sock.

Ethanol Compatibility

Today's ethanol-enriched fuels are more corrosive than the fuels of the past. High-octane premium grade pump gas can contain up to 15% ethanol and e85 is becoming increasing popular as an inexpensive, readily available race fuel. Regardless of what fuel you prefer, DW has specifically engineered their pumps with ethanol in mind:

- Composite Impeller – DW turbine impellers are made of a lightweight composite that is both efficient and impervious to the corrosive nature of ethanol.
- Encapsulated Armature – DW motor armatures are fully encapsulated to protect the copper windings from ethanol deterioration.
- Carbon Commutators and Brushes – The utilization of carbon in the wear components of the pump leads to a much longer life especially in high heat and high pressure conditions.
- Endurance Testing – DW performs in-house HALT (Highly Accelerated Life Testing) on all pump designs and in various fuels to find and eliminate common modes of failure.

Even if you don't use ethanol-enriched fuels, the extra work is not wasted. All of the above mentioned design attributes translate to a more dependable, longer life fuel pump regardless of the fuel used.



Find fuel pump part numbers and prices on page 17-30



Just like DW fuel injectors, every single DW fuel pump undergoes multi-point performance testing by a trained technician to ensure it meets our, and our customers' high standards. Although it is a labor intensive process, it gives customers confidence right out of the box.

Performance testing includes:

- Flow at pressures of 40psi, 60psi, 80psi, 100psi
- Amperage draw at each pressure
- PRV activation point
- Check valve function
- Cavitation
- Qualitative observations

FUEL PUMPS

DW pumps use a high torque motor that creates more flow at higher pressures

Standard Fitment



- Flows **165** lph 4.2 amps @ 40psi

- Flows **255** lph 9.2 amps @ 40psi



- Flows **340** lph 12.0 amps @ 40psi

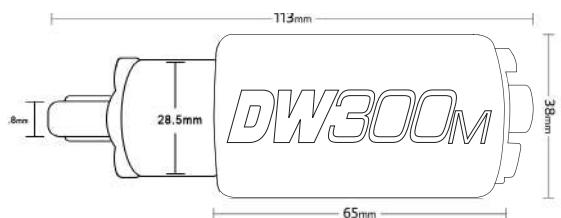
- Flows **415** lph 16.5 amps @ 40psi

Specialty Fitment

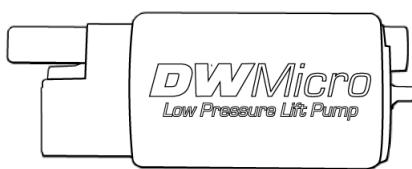


- Flows **265** lph 10.5 amps @ 40psi

- Flows **265** lph 12.7 amps @ 40psi



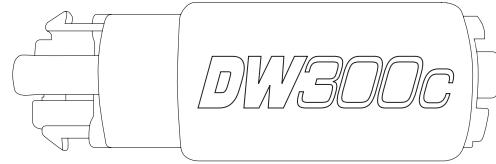
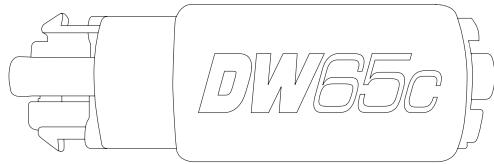
- Flows **340** lph 11.2 amps @ 40psi



- Flows **210** lph 5.1 amps @ 40psi

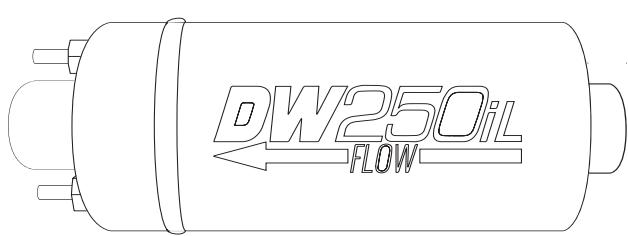
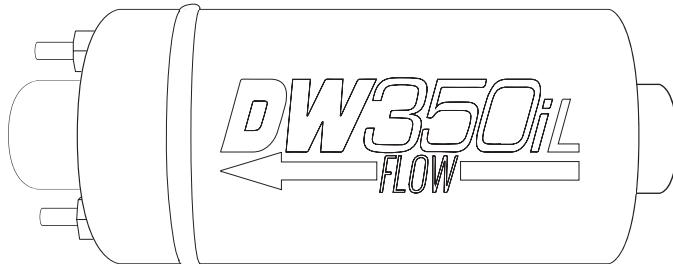
*All Data 13.5V @40psi

Compact Fitment



- Flows **265** lph 11.4 amps @ 40psi
- Flows **340** lph 11.7 amps @ 40psi

Universal In-line



- Flows **350** lph 12.0 amps @ 40psi
- Flows **250** lph 9.9 amps @ 40psi

*All Data 13.5V @40psi

Chris Forsberg - VR38TT powered 370z - Formula Drift

Fueled by DeatschWerks 1500cc Injectors, two DW400 Fuel pumps, DWFF160 Fuel Filter, DW lines and fittings, and a DWR1000 Fuel Pressure Regulator making over 900hp.



FILTRATION

DW fuel filters combine innovation and quality to deliver the industry's most comprehensive protection

Today's ethanol-enriched fuels are more corrosive than the fuels of the past. High-octane premium grade pump gas can contain up to 15% ethanol and e85 is becoming increasing popular as an inexpensive readily available race fuel. Regardless of what fuel you prefer, protecting your expensive fuel system components from the corrosive nature of ethanol is more important than ever. The DW dual-stage magneto-mechanical fuel filters were developed specifically to address the issues with modern day fuels.

Dual Stage Offers Twice the Protection



Stage One - Magnetic Filtration

Fuel system corrosion caused by ethanol-blended fuels can release ferrous contaminants that destroy expensive fuel injectors and pumps. Stage one filtration traps these contaminants with a 35mm neodymium magnet. The magnet is placed at the filter inlet, which maximizes contact with the incoming fuel and creates zero flow restriction.

Stage Two - Mechanical Filtration

Non-ferrous materials make up the majority of fuel system contaminates and are trapped in stage two. This stage utilizes conventional and proven mechanical filtration methods. All DW filters feature serviceable pleated 304 series stainless steel elements, which provide a large surface area for maximum filtration capacity and minimum flow restriction. Stainless steel elements are the premium and simple choice due to their compatibility with all fuels including pump gas, race gas, MTBE, ethanol, methanol, and diesel. In addition, stainless steel elements provide higher temperature tolerances and longer life spans over competitors' fiberglass and paper filter elements.

Comprehensive Options

Universal In-Line Filters

DW in-line fuel filters are available in several formats to fit your filtration needs. Two EFI-specific pore sizes are available (5 μ -GDI, 10 μ -efi, 40 μ -carb, and 100 μ -pre-pump) for pre-pump or post-pump fitment. Each pore size is available in three different housing sizes (70mm, 110mm, and 160mm) to accommodate your flow, service interval, and space requirements. All housings are anodized T6061 aluminum with -10AN ORB inlets and -6, -8, and -10AN ORB outlets. DW also offers a unique surge tank fuel filter that threads directly onto the 250iL or 350iL in-line pump.



Application Specific Module Filters

DW has taken the application specific approach which is popular in fuel injectors and fuel pumps and applied it to filtration. Many modern fuel pump modules contain cheap cardboard elements that degrade and clog when used with e85. DW module filters feature high quality stainless steel elements that offer better filtration, serviceability, and compatibility with all fuels. In addition, the module filters fit in the tank, which simplifies plumbing and puts the filter out of sight for a more stealth appearance.



Find filtration part numbers and prices on page 34

SURGE TANKS

Surge Tanks are engineered to provide massive amounts of fuel flow reliably and consistently for racing applications

Custom surge tanks have been common in the racing industry for many years and serve the purpose of avoiding fuel starvation in high G corners and low tank levels. The DW Surge Tank Systems include the functionality of traditional surge tanks and add compact fitment, decreased noise, and increased flexibility. This has been achieved by moving both the pump and filtration functions to the inside of the surge tank and designing flexibility to allow the use of single, dual, or triple pump configurations to meet fueling needs from 200hp to 2000+hp.

Maximum Flexibility to Grow with Your Needs

The name “DeatschWerks” is synonymous with application-specific fuel system solutions. So what happens when we create a universal product? We design it with maximum flexibility, user friendliness, and tech support. The DW-Surge Tanks were developed specifically for racecars and high horsepower applications where drop-in-fitment isn’t always the best approach. Highly modified vehicles have different needs, which often require complete fuel system overhaul as opposed to working within the confines of the OE fuel system. Our surge tank systems are cost-effective in that it can grow with your build. One basic set of components can be configured to support from 500hp to over 2000hp. The system comes with all the extra parts needed for this adaptability plus we offer excellent technical documentation to help you get your system set up right the first time, every time.

Race Proven Fueling Solution

High-G cornering under full load puts more stress on a fuel delivery system than any other racing scenario. This is where the DW Surge Tanks excel. Team DW’s time attack and drift drivers have put this product to the test and have been blown away with the results. In addition to the flexibility of use and consistency of fuel supply, our drivers have made many positive comments on the weight savings, durability, and simplicity of the system.

DW Surge Tank Specifications

- Available in 2.5L, 3.5L, or 5.5L internal capacities
- Anodized for e85 and methanol compatibility
- Configurable for single, dual, triple, or external pump configurations
- Submerged pump design cools and quiets pump operation
- Vertical and horizontal mounting (integrated bracket)
- Compatible with DW250iL or DW350iL in-line pumps, 5.5L Compatible with DW200, DW300, and DW400
- Optional integrated stainless pre-filters (Inline pumps only)
- Detailed plumbing and installation instructions included



Find surge tank part numbers and prices on page 34

FUEL PRESSURE REGULATORS

DW Regulators provide the quality, precision and reliability that your high performance fuel system requires to deliver stable AFR and optimum performance

Adjustable fuel pressure regulators are simple mechanical devices that have not changed much over the decades and are often taken for granted. However, if you have ever experienced a failed diaphragm, fluctuating fuel pressure, or hot/cold start issues that inferior regulators can cause, you will appreciate the DWR1000 and DWR2000 adjustable fuel pressure regulators. Development of the DW regulators started with a comprehensive evaluation of the popular regulators already on the market. DW regulators were benchmarked against 5 of the leading regulators on the market and designed to outperform across multiple categories.

Designed with Ethanol in Mind

DW regulators were designed to be 100% compatible with ethanol based fuels. The corrosive nature of modern ethanol containing fuels will create significant issues for regulators that are not designed specifically for use in this environment. DW regulators utilize stainless steel hardware, nitrile-fiber diaphragms, anodized housings, and are, of course, 100% brass free in their construction.



Precision Pressure Adjustment

DW regulators incorporate several design features that allow precision pressure adjustment ranging from 30-100 PSI. The ball-bearing adjustment mechanism combined with a 2 psi-per-turn pressure ratio makes dialing in your desired target pressure an easy task. In addition, the massive 45mm diaphragm maintains that set pressure with unrivaled accuracy.

Full Line of Pressure Regulators to Fit All Needs

DW's adjustable regulator offering includes everything you need nothing you don't. By maximizing flexibility of bracket fitment and fuel line routing in each of our regulator models, we have created a line up consisting of just 5 models that fits virtually all needs... 200hp to 2,000hp, any fuel, EFI or Carb, -6, -8, and -10 feed lines. See the table below to find the DW regulator best for you...



DWR2000 Carb 3-20PSI EFI 30-120PSI -10 in, -8 out Shown in Black	DWR1000 30-120PSI -8 in, -6 out Shown in Titanium	DWR1000iL 30-120PSI -6 in, -6 out Shown in Black	DWR1000c 30-120PSI -6 in, -6 out Shown in Titanium

Find regulator part numbers and prices on page 34

FUEL RAILS

DW has created a clean-sheet rail design to offer the highest flow and maximum install flexibility

When DW decided to develop a line of high flow fuel rails, the project was started with the end in mind. The goal was to create a rail to outperform the competition in flow, fitment, aesthetics, options and value. This was a tall order that could only be accomplished with a clean-sheet design. After many late night CAD sessions, test-fitments, and design revisions, the end product has been worth the wait and effort.



Fuel Rail System that Grows with Your Build

Value can be defined in many ways. The cheap option is often the most expensive in the long run. DW rails give you the opportunity to “buy right and buy once” by providing a fuel rail that can grow with your needs. Whenever possible, we designed in the following flexibilities:

- Compatibility with OE injectors and DW high flow injectors
- Fitment for OE plumbing and high flow return plumbing
- Set-ups for OE pressure regulator and adjustable aftermarket regulators

High Bore -8AN ORB

Modern engine bays are tight spaces. There is little room for error when the goal is to maintain OE fitment AND maximize bore diameter. Generic fuel rail stock with bolt-on brackets and a logo isn't going to deliver aesthetically or functionally. The DW clean-sheet design included carefully placed integrated brackets plus carefully shaped and shaved rail bodies to maximize internal cross sections. This larger diameter bore provides benefits of lower restriction, more stable pressure, less vibration, and less noise.



Options are Standard

Sometimes it is the simple yet well-planned features that make a big difference. When you focus only on fueling, you think of things the competition misses:

- 1/8" NPT port for pressure gauge or nitrous feed
- Integrated schrader valve
- 3/8" NPT port for integration of fuel pulsation damper
- Available in Black
- Hardware kit, including everything needed for installation

Conversion Rails for Side-Feeds

DW offers innovative rail/injector kits for converting Subaru side-feed applications to top-feed. Many Subaru's from the 90's and early 2000's came from the factory with side feed injectors. Modern top-feed injectors are easier to tune, less expensive, and flow more fuel than the side-feed alternatives. DW Conversion Kits include injectors ranging from 750cc to 2200cc and are engineered as a system where the injector, rails, and mounting hardware all work together to integrate flawlessly into the OE manifold.



Find fuel rail part numbers and prices on page 35

LINES & FITTINGS

DW has created the first comprehensive offering of lines and fittings created specifically for fuel system plumbing



Everything You Need, Nothing You Don't

Plumbing a fuel system has always been more difficult than it should be. Countless hours can be spent pouring through multiple vendor sites and hundreds of non-fuel-specific part numbers in search of that one specialty fitting you need. The DW plumbing line-up is designed to simplify this process by providing everything you need and nothing you don't:

- -6, -8, and -10 AN sizing covers all the feed and return options needed for 200hp to 2,000hp.
- Fuel system specific specialty parts including Check Valves, EFI Quick Connects, Hardline Adaptors, Metric Adaptors, Y-Blocks, Bulkheads, Tees, Plugs, Hose Ends, AN Couplers and Adaptors.
- Technical support standing by to help find what you need.

PTFE or Rubber – the Choice is Yours

Today's plumbing components and lines are challenged with an increasing list of available pump gases, race fuels, and ethanol blends. The DW plumbing line includes options for compatibility with all of these:

- Rubber fuel lines are reinforced for high pressure and lined for compatibility with ethanol-based fuels up to e85.
- PTFE fuel lines have increased fuel compatibility for methanol and e100. In addition, this option allows tighter radius turns and zero fuel vapor permeability.
- Both hose options are available in stainless (silver) or nylon (black) braided coverings.
- Swivel hose-end options for both rubber and PTFE in straight, 30, 45, 60, 90, 120, and 180 degrees.

Quality and Value to Fit Your Needs

Fuel system plumbing is not a place to cut corners on quality, but you should not have to pay a premium for that peace of mind. All DW plumbing components are manufactured to applicable JIC and SAE standards and are constructed of heat-treated 6061 T-6 aluminum that is hard anodized in a titanium finish. These high-grade materials and coatings offer the optimum combination of strong, light, and fuel compatible. All DW plumbing components are backed by a 3-year warranty.

Tools to Assemble Your Lines

Specialty plumbing components require specialty tools. To maximize simplicity and offer one-stop-shopping DW has created their own line of plumbing tools. The offering includes AN wrenches in sizes from -4AN to -12AN, adjustable AN wrenches, and soft vise hose-end clamps... Everything you need to assemble the fuel lines yourself.

Find lines and fittings part numbers and prices on page 33-34

ADDITIONAL FUELING PRODUCTS

DW accessories engineered to complement your fuel system

Injector O-Ring Kits:

DeatschWerks O-ring kits include all necessary upper O-rings, lower O-rings, and manifold spacers and seals needed for your application. With over 100 different O-rings in-stock, we have you covered for just about any style, size, shape, or material your application calls for. If you don't see what you need in a kit listed here, feel free to contact us, and we'll find what you're looking for.



Find O-ring part numbers and prices on page 38



Connectors:

DeatschWerks has several different types of connectors available, because everyone has a preference as to what types of connectors they use when upgrading their system. DW offers double-sided plug-and-play connectors (the easiest to use since they plug right in), re-pin connectors to make your system look like stock with no soldering, and pigtailed that can be soldered in to your existing system. Whether you need USCAR, Sumitomo, Delphi, Honda, Jetronic, Minitimer, Nissan or Subaru connectors, we have them.



**Find connector part numbers
and prices on page 28**

Justin Keith's "Stangkilr".
F1X ProCharged Corvette C7 capable of 1400HP.
First ever C7 equipped with a powerglide. Fueled
by DW 2200cc injectors.



FUEL INJECTOR & FUEL PUMP PRICE GUIDE By Make & Model

APPLICATION		FUEL INJECTORS			FUEL PUMPS		
Model	Year/Engine	Part #	Flow Rate	Set Qty	Pump Series	Part #	Flow Rate
TOYOTA							
86	2012-2015 4U-GSE	16U-02-0450-4	450 cc/min	4	DW65c DW300c	9-651-1010 9-307-1010	265 liters/hr 340 liters/hr
		16U-02-0700-4	700 cc/min	4			
		16U-02-0900-4	900 cc/min	4			
		16MX-08-1200-4	1200 cc/min	4			
	2000-2005 1.8L	16M-08-1500-4	1500 cc/min	4	DW65c DW300c DW65c DW300c	9-652-1006 9-307-1006 9-652-1006 9-309-1006	265 liters/hr 340 liters/hr 265 liters/hr 340 liters/hr
Celica	2.4L 2AZFE	18U-11-1000-4	1000 cc/min	4			
	1999-2007 1.8L	16MX-13-1200-4	1200 cc/min	4			
		16M-13-1500-4	1500 cc/min	4			
MR2	2.4L 2AZFE	18U-11-1000-4	1000 cc/min	4	DW65c DW300c DW65c DW300c	9-652-1006 9-309-1006 9-652-1006 9-309-1006	265 liters/hr 340 liters/hr 265 liters/hr 340 liters/hr
	1993-1998 2JZ-GTE 11mm Fuel Rail Bore	17U-02-1000-6	1000 cc/min	6			
		16MX-11-1200-6	1200 cc/min	6			
Supra (top feed conversions only)	Fuel Rail Bore	16M-11-1500-6	1500 cc/min	6			
		16S-07-2200-6	2200 cc/min	6			
		17U-03-1000-6	1000 cc/min	6			
		16MX-14-1200-6	1200 cc/min	6			
	2JZ-GTE 14mm Fuel Rail Bore	16M-14-1500-6	1500 cc/min	6	DW300	9-301-1000*	340 liters/hr
		16S-08-2200-6	2200 cc/min	6			
		17U-01-0440-4	440 cc/min	4			
		17U-01-0550-4	550 cc/min	4			
VOLKSWAGEN	1999-2006 1.8L turbo	17U-01-0650-4	650 cc/min	4	DW65v	9-654-1025	265 liters/hr
		17U-01-0750-4	750 cc/min	4			
		17U-01-1000-4	1000 cc/min	4			
		16MX-30-1200-4	1200 cc/min	4			
		16M-30-1500-4	1500cc/min	4			
Passat	1998-2005 1.8L turbo	21S-05-0440-6	440 cc/min	6	DW65v	9-654-1025	265 liters/hr
Jetta	1999-2005 1.8L turbo	21S-05-0600-6	600 cc/min	6		9-654-1025	265 liters/hr
Beetle	1998-2010 1.8L turbo	17U-06-1000-6	1000 cc/min	6		9-654-1025	265 liters/hr
Golf GTI R32	2004-05 3.2L VR6	16MX-06-1200-6	1200 cc/min	6	DW65v AWD	9-655-1025	265 Liters/hr
		16M-06-1500-6	1500 cc/min	6			

* Part # denotes universal fitment. Modifications to the OE assembly or use of an aftermarket hanger may be necessary. Contact DW tech support for further assistance.

Chase Lautenbach- DW Powered 18 Mustang GT

Chase's Mustang is fueled by DeatschWerks 95# drop-in injectors with a P1X Procharger making 1000hp to the wheels.



ELECTRICAL CONNECTOR GUIDE

Part #	Type	Installation	Part #	Type	Installation
conn-uscar*	Uscar	Comes pinned w/ pigtailed for wire-in installation	conn-ssf	Subaru Side-Feed	Comes pinned w/ pigtailed for wire-in installation
conn-uscarx*	Uscar	Exploded, w/ housing & pins separate for re-pin installation	conn-sumitomo**	Sumitomo	Comes pinned w/ pigtailed for wire-in installation
conn-delphi	Delphi	Comes pinned w/ pigtailed for wire-in installation	conn-sumx**	Sumitomo	, w/ housing and pins separate for re-pin installation
conn-jetronic	Minitimer/EV1	Comes pinned w/ pigtailed for wire-in installation	conn-US-HON*	Uscar to Honda	PnP adapter
conn-nsf	Nissan Side-Feed	Comes pinned w/ pigtailed for wire-in installation	conn-US-JT*	Uscar to Minitimer/EV1	PnP adapter
conn-JT-US	Minitimer/EV1 to Uscar	PnP adapter	conn-US-SUM*	Uscar to Sumitomo	PnP adapter
conn-US-SUMW	Uscar to Sumitomo Wired	PnP adapter	conn-JT-hon2w	Jetronic to 9th Gen Honda Civic	PnP adapter
			conn-JT-USW	Jetronic/Minitimer/EV1	Wired Connector to USCAR

* Can be used with 16U, 17U, 18U PN's from Bosch EV14 universal injector line

** Can be used with 16S PN's from Bosch EV14 universal injector line



Faruk Kugay - E92 BMW M3

Faruk's BMW runs a 2JZ with a set of DW 2200cc injectors, DW Surge Tank, 2x DW350il fuel pumps, DWR2000 Regulator and a DWFF160 Fuel Filter. .



QUICK REFERENCE FUEL PUMP GUIDE

DW100

165 LITERS/HR



Make/Model	Year/Engine	Part #
Universal	Fits most models	9-101-1000
Acura Integra	1994-2001	9-101-0846
Chevrolet Corvette	1984-1985	9-101-1027
Chevrolet Corvette	1986-1989	9-101-1028
Chevrolet Corvette(exc ZR-1)	1990-1996	9-101-1029
Honda Civic	1992-2000	9-101-0846
Honda Civic (exc Si)	2006-2011 R18	9-101s-1007
Honda S2000	2006-2009 F22	9-101s-1004
Kia Forte	2010-2015 2.0/2.5	9-101s-1003
Mazda Miata	1989-1993 1.6L, 1.8L	9-101-0836
Mazda Miata	1994-2005 1.6L, 1.8L	9-101-0848
Nissan 240sx (S13)	1989-1994 Various	9-101-0766
Nissan 240sx/Silvia (S14/S15)	1994-2002 Various	9-101-1024
Scion TC	2005-2010 2.4L 2AZFE	9-101s-1006
Subaru Impreza (exc WRX & STi)	1993-2007 EJ20, EJ25	9-101-0791
Subaru Legacy	1990-2007 EJ22, EJ20, EJ25	9-101-0791

DW250iL
FLOW

255 LITERS/HR



Make/Model	Year/Engine	Part #
Universal	Fits most models	9-250

DW350iL
FLOW

350 LITERS/HR



Make/Model	Year/Engine	Part #
Universal	Fits most models	9-350

DW65V

265 LITERS/HR



Make/Model	Year/Engine	Part #
Various Audi/VW	1.8t FWD	9-654-1025
Various Audi/VW	2.0 TSI TFSI LPFP	9-654-1025
Various Audi/VW	1.8t AWD	9-655-1025
Various Audi/VW	3.2 VR6 AWD	9-655-1025

DW65C

265 LITERS/HR



Make/Model	Year/Engine	Part #
Universal	Fits most models	9-651-1000
Universal	Fits most models	9-652-1000
Acura RSX	2002-2006 K20, K24	9-651-1009
BMW E30	1988-1991 2.5L	9-651-1030
Ford SVT Lightning	1999-2004 V8	9-651-1013*
Ford F150 Harley-Davidson Edition	2002-2003 V8	9-651-1013*
Ford Focus RS	2009-2010 i5 Turbo	9-651-1017
Holden Commodore	1997-2006 5.7. 6.0	9-653-1011
Holden Commodore	2007-2013 6.0	9-651-1018
Honda Civic	2001-2005 D17	9-651-1009
Honda Civic	2006-2011 All	9-651-1008
Jeep Wrangler	1997-2004 2.5L/4.0L	9-651-1051
Jeep Wrangler	2007-2017 3.8 L	9-651-1026
Lotus Exige	2004+	9-652-1006
Lotus Elise	2004+	9-652-1006
Mazda MX5	2006-2015 2.0L MZR	9-651-1009
Mazda Speed 3	2007-2013 2.3L DISI MZR	9-651-1026
Mazda Speed 6	2006-2007 2.3L DISI MZR	9-651-1026
Mitsubishi EVO X	2008-2015 4B11T	9-651-1026
Nissan R35 GTR	2008-2015 VR38DETT	9-652-1009*
Pontiac GTO	2004-2006 LS1, LS2	9-652-1008
Scion FR-S	2012-2015 FA20, 4U-GSE	9-651-1010
Subaru BRZ	2012-2015 FA20, 4U-GSE	9-651-1010
Subaru Legacy GT	2005-2009 EJ25	9-652-1008
Subaru STi	2008-2015 2.5	9-652-1008
Subaru WRX	2008-2014 2.5	9-652-1008
Subaru WRX	2015 2.0	9-651-1010
Toyota 86	2012-2015 FA20, 4U-GSE	9-651-1010

* Requires qty 2. Dual pump system

LINES & FITTINGS PRICE GUIDE

FITTINGS		
	Description	Part Number
	PTFE 6AN olive insert (ferrule) - QTY 10	6-02-0867
	PTFE 8AN Olive insert (ferrule) - QTY 10	6-02-0868
	PTFE 10AN olive insert (ferrule) - QTY 10	6-02-0869
Clamps, O-rings & Crush Washers	Replacement Hard Line Compression Olives, 5/16" (Pack of 10)	6-02-0117
	Replacement Hard Line Compression Olives, 3/8" (Pack of 10)	6-02-0118
	Replacement Hard Line Compression Olives, 1/2" (Pack of 10)	6-02-0119
Metric Adapters	6AN ORB Male to M12 X 1.5 Metric Female	6-02-0601
	6AN ORB Male to M12 X 1.5 Metric Male	6-02-0602
	6AN ORB Male to M14 X 1.5 Metric Male	6-02-0603
	6AN ORB Male to M16 X 1.5 Metric Male	6-02-0604
	6AN ORB Male to M18 X 1.5 Metric Female	6-02-0605
	6AN ORB Male to M18 X 1.5 Metric Male	6-02-0606
	8AN ORB Male to M12 X 1.5 Metric Female	6-02-0607
	8AN ORB Male to M12 X 1.5 Metric Male	6-02-0608
	8AN ORB Male to M14 X 1.5 Metric Male	6-02-0609
	8AN ORB Male to M16 X 1.5 Metric Male	6-02-0610
	8AN ORB Male to M18 X 1.5 Metric Female	6-02-0611
	8AN ORB Male to M18 X 1.5 Metric Male	6-02-0612
	6AN Male Flare to M12 X 1.5 Male Metric Adapter	6-02-0613
	6AN Male Flare to M14 X 1.5 Male Metric Adapter	6-02-0614
	6AN Male Flare to M16 X 1.5 Male Metric Adapter	6-02-0615
	6AN Male Flare to M18 X 1.5 Male Metric Adapter	6-02-0616
	8AN Male Flare to M12 X 1.5 Male Metric Adapter	6-02-0617
	8AN Male Flare to M14 X 1.5 Male Metric Adapter	6-02-0618
	8AN Male Flare to M16 X 1.5 Male Metric Adapter	6-02-0619
	8AN Male Flare to M18 X 1.5 Male Metric Adapter	6-02-0620
Hose End Fittings	6AN Straight Hose End Swivel	6-02-0801
	6AN 45° Hose End Swivel	6-02-0802
	6AN 90° Hose End Swivel	6-02-0803
	6AN 180° Hose End Swivel	6-02-0804
	8AN Straight Hose End Swivel	6-02-0805
	8AN 45° Hose End Swivel	6-02-0806
	8AN 90° Hose End Swivel	6-02-0807
	8AN 180° Hose End Swivel	6-02-0808
	10AN Straight Hose End Swivel	6-02-0809
	10AN 45° Hose End Swivel	6-02-0810
	10AN 90° Hose End Swivel	6-02-0811
	6AN Straight PTFE Hose End	6-02-0850
	6AN 30° Hose End CPE	6-02-0818
	6AN 60° Hose End CPE	6-02-0819
	6AN 120° Hose End CPE	6-02-0820
	8AN 30° Hose End CPE	6-02-0821
	8AN 60° Hose End CPE	6-02-0822
Y Blocks, Bulkheads, Tees, Plugs, & Caps	8AN Male Flare One Way Check Valve	6-02-0723
	8AN Male Flare One Way Check Valve	6-02-0724
	10AN Male Flare One Way Check Valve	6-02-0725
	6AN Male Flare to Fuel Pump Outlet Barb Adapter (black)	6-02-0735
	8AN Male Flare to Fuel Pump Outlet Barb Adapter (black)	6-02-0736
	DW250iL metric kit to replace Bosch 044	6-02-0101
	DW350iL metric kit to replace Bosch 044	6-02-0102

LINES & FITTINGS PRICE GUIDE

HOSES		AN TOOLS		
	Description	Description	Part Number	
CPE Hose	6AN SS Braided CPE Hose (3 feet)	6-02-0812-3	4AN T6061 Aluminum Hose End Wrench	6-02-1001
	6AN SS Braided CPE Hose (10 feet)	6-02-0812-10	6AN T6061 Aluminum Hose End Wrench	6-02-1002
	6AN SS Braided CPE Hose (20 feet)	6-02-0812-20	8AN T6061 Aluminum Hose End Wrench	6-02-1003
	8AN SS Braided CPE Hose (3 feet)	6-02-0813-3	10AN T6061 Aluminum Hose End Wrench	6-02-1004
	8AN SS Braided CPE Hose (10 feet)	6-02-0813-10	12AN T6061 Aluminum Hose End Wrench	6-02-1005
	8AN SS Braided CPE Hose (20 feet)	6-02-0813-20	Adjustable AN Hose End Wrench (black anodized)	6-02-1006
	10AN SS Braided CPE Hose (3 feet)	6-02-0814-3	4" Aluminum Soft Jaws with Magnet (orange anodized)	6-02-1007
	10AN SS Braided CPE Hose (10 feet)	6-02-0814-10	T6061 AN Hose End Wrench Set (Sizes 4, 6, 8, 10,12)	6-02-1009
	10AN SS Braided CPE Hose (20 feet)	6-02-0814-20		
	6AN Black Nylon CPE Hose (3 feet)	6-02-0815-3		
	6AN Black Nylon CPE Hose (10 feet)	6-02-0815-10		
	6AN Black Nylon CPE Hose (20 feet)	6-02-0815-20		
	8AN Black Nylon CPE Hose (3 feet)	6-02-0816-3		
	8AN Black Nylon CPE Hose (10 feet)	6-02-0816-10		
	8AN Black Nylon CPE Hose (20 feet)	6-02-0816-20		
	10AN Black Nylon CPE Hose (3 feet)	6-02-0817-3		
	10AN Black Nylon CPE Hose (10 feet)	6-02-0817-10		
	10AN Black Nylon CPE Hose (20 feet)	6-02-0817-20		
PTFE Hose	6AN SS Braided PTFE Hose (3 feet)	6-02-0861-3		
	6AN SS Braided PTFE Hose (10 feet)	6-02-0861-10		
	6AN SS Braided PTFE Hose (20 feet)	6-02-0861-20		
	8AN SS Braided PTFE Hose (3 feet)	6-02-0862-3		
	8AN SS Braided PTFE Hose (10 feet)	6-02-0862-10		
	8AN SS Braided PTFE Hose (20 feet)	6-02-0862-20		
	10AN SS Braided PTFE Hose (3 feet)	6-02-0863-3		
	10AN SS Braided PTFE Hose (10 feet)	6-02-0863-10		
	10AN SS Braided PTFE Hose (20 feet)	6-02-0863-20		
	6AN Black Nylon PTFE Hose (3 feet)	6-02-0864-3		
	6AN Black Nylon PTFE Hose (10 feet)	6-02-0864-10		
	6AN Black Nylon PTFE Hose (20 feet)	6-02-0864-20		
	8AN Black Nylon PTFE Hose (3 feet)	6-02-0865-3		
	8AN Black Nylon PTFE Hose (10 feet)	6-02-0865-10		
	8AN Black Nylon PTFE Hose (20 feet)	6-02-0865-20		
	10AN Black Nylon PTFE Hose (3 feet)	6-02-0866-3		
	10AN Black Nylon PTFE Hose (10 feet)	6-02-0866-10		
	10AN Black Nylon PTFE Hose (20 feet)	6-02-0866-20		

AN tools



MODULAR SURGE TANKS, REGULATORS & FILTRATION

STAGED SURGE TANKS

DW5.5 SST	6-000-55ST
DW5.5 SST + 3 DW200	6-201-55ST
DW5.5 SST + 3 DW300	6-301-55ST
DW5.5 SST + 3 DW400	6-401-55ST



MODULAR SURGE TANKS

DW3.5L Modular Surge Tank	6-000-35ST
DW3.5L Modular Surge Tank + 1 DW350iL	6-351-35ST
DW3.5L Modular Surge Tank + 2 DW350iL	6-352-35ST
DW2.5L Modular Surge Tank	6-000-25ST
DW2.5L Modular Surge Tank + 1 DW250iL	6-251-25ST
DW2.5L Modular Surge Tank + 2 DW250iL	6-252-25ST
Surge Tank	8-01-08100
Pre-Filters For DW350iL	
Surge Tank	8-01-06100
Pre-Filters For DW250iL	



ADJUSTABLE FUEL PRESSURE REGULATORS

DWR1000	Black	Dual -8 inlet Single -6 outlet	6-1000-FRB
DWR1000	Titanium	Dual -8 inlet Single -6 outlet	6-1000-FRT
DWR2000	Black	Dual -10 inlet Single -8 outlet	6-2000-FRB
DWR2000	Titanium	Dual -10 inlet Single -8 outlet	6-2000-FRT
DWR1000iL	Black	Single -6 inlet Single -6 outlet	6-1001-FRB
DWR1000iL	Titanium	Single -6 inlet Single -6 outlet	6-1001-FRT
DWR2000 Carburetor	Black	Dual -10 inlet Single -8 outlet	6-2001-FRB
DWR2000 Carburetor	Titanium	Dual -10 inlet Single -8 outlet	6-2001-FRT
Fuel Pressure Gauge	White Face	0-100 PSI	6-01-G

IN-LINE FUEL FILTERS KITS

70mm	Filter element w/ housing	10 Micron 100 Micron	8-03-070-010K 8-03-070-100K
110mm	Filter element w/ housing	10 Micron 100 Micron	8-03-110-010K 8-03-110-100K
160mm	Filter element w/ housing	10 Micron 100 Micron	8-03-160-010K 8-03-160-100K
Mounting Bracket	8-04-00-BRK		
Subaru In-tank Filter	04-07 WRX, STI, & Outback 40 Micron 8-05-01-040		

REPLACEMENT FUEL FILTERS ELEMENTS

70mm	Filter element	10 Micron 100 Micron	8-02-070-010 8-02-070-100
110mm	Filter element	10 Micron 100 Micron	8-02-110-010 8-02-110-100
160mm	Filter element	10 Micron 100 Micron	8-02-160-010 8-02-160-100



APPLICATION		FUEL INJECTORS			
	Model	Year	Part #	Flow Rate	Set Qty
WaterCraft	GTX 215	2003-2009	17MX-41-0600-3	650cc/min	3
			17MX-41-0850-3	900cc/min	3
			17MX-41-1100-3		
	RXP 215	2004-2009	17MX-41-0600-3	600cc/min	3
			17MX-41-0850-3	850cc/min	3
			17MX-41-1100-3	1100cc/min	3
	RXT 215	2005-2009	17MX-41-0600-3	600cc/min	3
			17MX-41-0850-3	850cc/min	3
			17MX-41-1100-3	1100cc/min	3
Sea-Doo	GTX 260	2011-2017	17MX-41-0600-3	600cc/min	3
			17MX-41-0850-3	850cc/min	3
			17MX-41-1100-3	1100cc/min	3
	RXP 260	2012-2015	17MX-41-0600-3	600cc/min	3
			17MX-41-0850-3	850cc/min	3
			17MX-41-1100-3	1100cc/min	3
	RXT 260	2011-2017	17MX-41-0600-3	600cc/min	3
			17MX-41-0850-3	850cc/min	3
			17MX-41-1100-3	1100cc/min	3
	GTX 300	2016-2017	17MX-41-0850-3	850cc/min	3
			17MX-41-1100-3	1100cc/min	3
Yamaha	RXP 300	2016-2017	17MX-41-0850-3	850cc/min	3
			17MX-41-1100-3	1100cc/min	3
	RXT 300	2016-2017	17MX-41-0850-3	850cc/min	3
			17MX-41-1100-3	1100cc/min	3
	RXT IS 255	2009	17MX-41-0600-3	600cc/min	3
			17MX-41-0850-3	850cc/min	3
			17MX-41-1100-3	1100cc/min	3
Yamaha	FX SHO	2008-2012	16U-45-0700-4	700cc/min	4
			16U-45-0900-4	900cc/min	4
			16MX-45-1200-4	1200cc/min	4
			16M-45-1500-4	1500cc/min	4
	FZR	2009-2013	16U-45-0700-4	700cc/min	4
			16U-45-0900-4	900cc/min	4
			16MX-45-1200-4	1200cc/min	4
			16M-45-1500-4	1500cc/min	4
	FZS	2009-2013	16U-45-0700-4	700cc/min	4
			16U-45-0900-4	900cc/min	4
			16MX-45-1200-4	1200cc/min	4
			16M-45-1500-4	1500cc/min	4

FUEL INJECTOR O-RING KITS

FULL SHOP KITS

Sport Compact & Euro injector o-ring kit	2-201
Modern Muscle injector o-ring kit	2-202
Master Shop Injector o-ring kit	2-203

REPLACEMENT SETS

Replacement O-ring Set 4 CYL	2-000-4
Replacement O-ring Set 6 CYL	2-000-6
Replacement O-ring Set 6 CYL	2-000-8

Global Time Attack Driver Savanna Little

Global Time Attack Driver Savanna Little runs DeatschWerks 50lb injectors in her LS3 Swapped Nissan 350z making almost 600hp.



Check out the collection of performance fuel system parts we offer.