



GRAMS (GRoup-A MotorSports) - A division of Group-A Engineering focused on delivering quality fuel system solutions.

PER•FOR•MANCE - Achieving given objectives through extensive measurement against the highest known standards for accuracy.

DE•SIGN - Conception, creation, and realization of a configuration that achieves a designated objective.

Grams Performance & Design is dedicated to delivering the most innovative and the highest quality performance products to the automotive and motorcycle aftermarket performance industry. Drawing on over 20 years of motorsports and industry experience, the Grams Performance team is comprised of experienced professionals that are also enthusiasts with a passion for what they do, and have an understanding of what other enthusiasts want. Our unique perspective is shaped by practical real-world experiences coupled with a strong understanding of the science of motorsports. Our goal is to continually expand our capabilities and knowledge, and make every effort to embrace advancements in engineering, manufacturing, and material science in an effort to make the latest performance and technologies accessible to enthusiasts.

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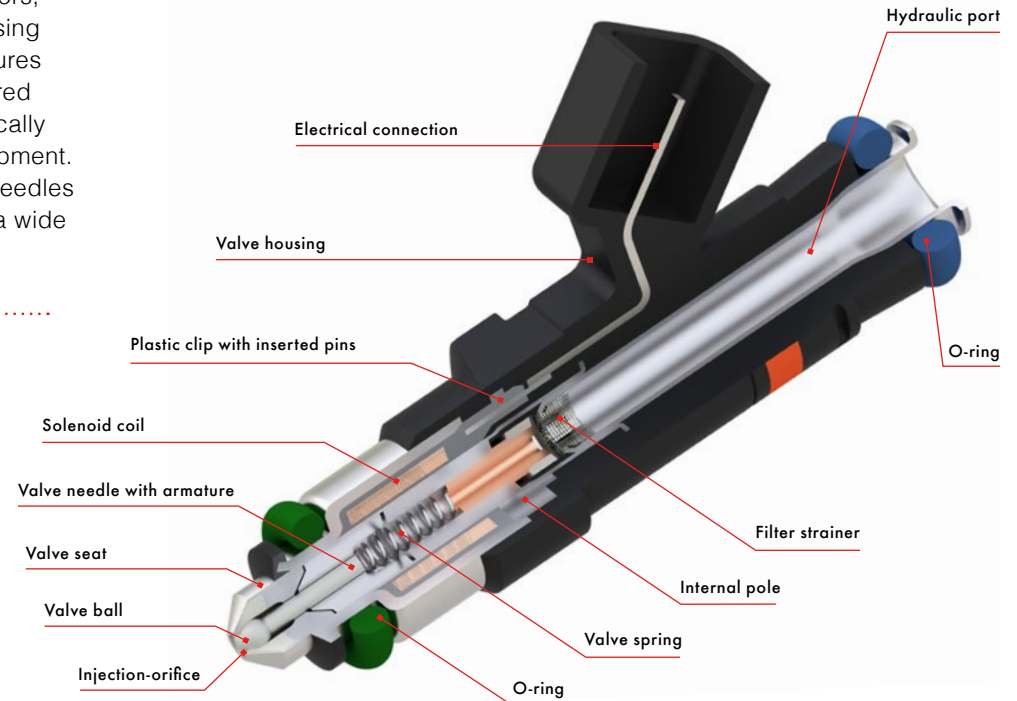
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Grams Performance offers innovative, high-performance fuel injectors for today's vehicles. Designed to provide enhanced fuel flow and maximum power and performance, Grams injectors are made using genuine Bosch® injectors, and have been subjected to rigorous dyno, street, and track testing. By using advanced manufacturing techniques and stringent quality control procedures Grams is able to offer meticulously modified injectors to achieve desired flow rates. Each injector is individually flow tested, balanced, and dynamically matched in controlled laboratory environments using state-of-the-art equipment. Each injector utilizes ultra-fast precision solenoids and lightweight valve needles that result in a linear response curve and accurately metered fuel across a wide range of operating conditions and pulse widths.

FEATURES & BENEFITS

- > Flowed and balanced to within 1% for consistency
- > Precise fuel metering up to 118 psi (8 bar)
- > Pressure tested up to 220 psi (15.16 bar)
- > Lightweight valve needle and ultra-fast solenoid
- > Superior valve ball and modified nozzles
- > Improved atomization for greater combustion efficiency and reduced emissions
- > Unmatched cylinder-to-cylinder consistency
- > Leak-free operation and optimal performance
- > High-impedance design (no resistor box required)
- > Over-molded one-piece design for added reliability and simplicity.
- > Made from Bosch® EV14 Compact xT, Compact, or Standard housings
- > Direct OEM replacement application specific kits for variety of makes and models
- > Comes with an injector latency data to accurately set up aftermarket ECU



GRAMS 1000CC FUEL INJECTOR CUTAWAY



DID YOU KNOW?

In order to improve the injector modification process, the Grams Research and Development team built and programmed a custom precision CNC fuel injector grinder that is equipped with a Carbon Boron Nitride (CBN) wheel which results in a better surface finish with greater consistency and accuracy.



PERFORMANCE FUEL INJECTORS

Grams standard fuel injectors are chosen by professional motorsports and performance enthusiasts because of their quality, consistency, value, and ease of use. They were designed primarily to be used with Gasoline based fuels, however may be used with alcohol based fuels with the understanding that the fuel system must be regularly flushed out and stored with gasoline to minimize flow losses associated with the use of alcohol on a consistent basis.

FEATURES

- > Cold-machined tips for high-precision operation
- > Compatible with all known fuels including gasoline, methanol, and ethanol

G2-99-0123

350 CC/MIN • 33 LBS/HR

EV6-USCAR electrical connector



| Fuel Pressure | | Voltage Offset | | | | | Flow Rate | |
|---------------|------|----------------|----------|----------|----------|----------|-----------|--------|
| PSID | BAR | 8 Volts | 10 Volts | 12 Volts | 14 Volts | 16 Volts | cc/min | lbs/hr |
| 43 | 2.96 | 1.890 | 1.530 | 1.120 | 0.750 | 0.490 | 347 | 33 |
| 58 | 3.99 | 2.070 | 1.480 | 1.020 | 0.680 | 0.470 | 414 | 39 |
| 70 | 4.82 | 2.310 | 1.630 | 1.110 | 0.740 | 0.530 | 453 | 43 |
| 80 | 5.51 | 2.430 | 1.720 | 1.170 | 0.790 | 0.570 | 480 | 46 |
| 90 | 6.20 | 2.540 | 1.810 | 1.250 | 0.850 | 0.620 | 513 | 49 |
| 100 | 6.89 | 2.660 | 1.900 | 1.310 | 0.900 | 0.650 | 538 | 51 |



G2-99-0107

750 CC/MIN • 71 LBS/HR

EV6-USCAR electrical connector



| Fuel Pressure | | Voltage Offset | | | | | Flow Rate | |
|---------------|------|----------------|----------|----------|----------|----------|-----------|--------|
| PSID | BAR | 8 Volts | 10 Volts | 12 Volts | 14 Volts | 16 Volts | cc/min | lbs/hr |
| 43.5 | 2.99 | 1.920 | 1.330 | 1.030 | 0.770 | 0.690 | 750 | 71 |
| 45 | 3.10 | 2.000 | 1.410 | 1.080 | 0.790 | 0.700 | 762 | 73 |
| 50 | 3.44 | 2.020 | 1.430 | 1.130 | 0.810 | 0.712 | 804 | 76 |
| 55 | 3.79 | 2.160 | 1.500 | 1.160 | 0.830 | 0.725 | 843 | 80 |
| 60 | 4.13 | 2.210 | 1.550 | 1.200 | 0.850 | 0.735 | 880 | 83 |
| 65 | 4.48 | 2.310 | 1.640 | 1.230 | 0.870 | 0.740 | 916 | 87 |
| 70 | 4.82 | 2.450 | 1.740 | 1.270 | 0.890 | 0.746 | 951 | 90 |
| 75 | 5.17 | 2.530 | 1.790 | 1.310 | 0.910 | 0.794 | 984 | 93 |
| 80 | 5.51 | 2.650 | 1.820 | 1.350 | 0.930 | 0.820 | 1017 | 96 |
| 85 | 5.86 | 2.810 | 1.880 | 1.410 | 0.950 | 0.835 | 1048 | 99 |
| 90 | 6.20 | 2.980 | 1.980 | 1.450 | 1.000 | 0.900 | 1078 | 102 |
| 95 | 6.55 | 3.300 | 2.020 | 1.510 | 1.100 | 1.060 | 1108 | 105 |
| 100 | 6.89 | 3.420 | 2.100 | 1.560 | 1.250 | 1.210 | 1137 | 108 |



G2-99-0106

550 CC/MIN • 52 LBS/HR

EV6-USCAR electrical connector



| Fuel Pressure | | Voltage Offset | | | | | Flow Rate | |
|---------------|------|----------------|----------|----------|----------|----------|-----------|--------|
| PSID | BAR | 8 Volts | 10 Volts | 12 Volts | 14 Volts | 16 Volts | cc/min | lbs/hr |
| 43.5 | 2.99 | 2.700 | 1.540 | 1.120 | 0.730 | 0.523 | 550 | 52 |
| 45 | 3.10 | 2.850 | 1.560 | 1.130 | 0.740 | 0.529 | 559 | 53 |
| 50 | 3.44 | 2.970 | 1.580 | 1.144 | 0.745 | 0.534 | 589 | 56 |
| 55 | 3.79 | 3.120 | 1.600 | 1.151 | 0.749 | 0.538 | 618 | 59 |
| 60 | 4.13 | 3.300 | 1.620 | 1.158 | 0.751 | 0.541 | 645 | 61 |
| 65 | 4.48 | 3.600 | 1.640 | 1.164 | 0.753 | 0.543 | 672 | 64 |
| 70 | 4.82 | 3.840 | 1.660 | 1.171 | 0.756 | 0.545 | 697 | 66 |
| 75 | 5.17 | 4.090 | 1.680 | 1.179 | 0.760 | 0.547 | 722 | 69 |
| 80 | 5.51 | 4.330 | 1.700 | 1.188 | 0.765 | 0.549 | 745 | 71 |
| 85 | 5.86 | 4.580 | 1.723 | 1.196 | 0.770 | 0.552 | 768 | 73 |
| 90 | 6.20 | 4.820 | 1.740 | 1.203 | 0.775 | 0.557 | 791 | 75 |
| 95 | 6.55 | 5.060 | 1.756 | 1.211 | 0.777 | 0.562 | 812 | 77 |
| 100 | 6.89 | 5.310 | 1.770 | 1.218 | 0.780 | 0.567 | 833 | 79 |



G2-99-0108

1000 CC/MIN • 95 LBS/HR

EV6-USCAR electrical connector



| Fuel Pressure | | Voltage Offset | | | | | Flow Rate | |
|---------------|------|----------------|----------|----------|----------|----------|-----------|--------|
| PSID | BAR | 8 Volts | 10 Volts | 12 Volts | 14 Volts | 16 Volts | cc/min | lbs/hr |
| 43.5 | 2.99 | 2.500 | 1.600 | 1.250 | 0.970 | 0.790 | 996 | 94 |
| 45 | 3.10 | 2.600 | 1.700 | 1.300 | 1.050 | 0.800 | 1013 | 97 |
| 50 | 3.44 | 2.690 | 1.760 | 1.350 | 1.080 | 0.820 | 1067 | 101 |
| 55 | 3.79 | 2.980 | 1.820 | 1.400 | 1.130 | 0.830 | 1119 | 106 |
| 60 | 4.13 | 3.210 | 1.860 | 1.450 | 1.180 | 0.840 | 1169 | 111 |
| 65 | 4.48 | 3.400 | 1.920 | 1.500 | 1.230 | 0.860 | 1217 | 115 |
| 70 | 4.82 | 3.500 | 2.090 | 1.600 | 1.280 | 0.880 | 1263 | 120 |
| 75 | 5.17 | 3.620 | 2.160 | 1.650 | 1.330 | 0.940 | 1307 | 124 |
| 80 | 5.51 | 3.700 | 2.220 | 1.700 | 1.380 | 0.990 | 1350 | 128 |
| 85 | 5.86 | 3.800 | 2.460 | 1.800 | 1.440 | 1.050 | 1392 | 132 |
| 90 | 6.20 | 3.920 | 2.620 | 1.850 | 1.490 | 1.100 | 1430 | 136 |
| 95 | 6.55 | 3.970 | 2.790 | 1.900 | 1.550 | 1.150 | 1470 | 139 |
| 100 | 6.89 | 4.120 | 3.000 | 2.000 | 1.620 | 1.290 | 1510 | 143 |



G2-99-0110

2200 CC/MIN • 210 LBS/HR

Sumitomo-Denso electrical connector



| Fuel Pressure | | Voltage Offset | | | | | Flow Rate | |
|---------------|------|----------------|----------|----------|----------|----------|-----------|--------|
| PSID | BAR | 8 Volts | 10 Volts | 12 Volts | 14 Volts | 16 Volts | cc/min | lbs/hr |
| 43 | 2.96 | 1.620 | 1.170 | 0.890 | 0.650 | 0.400 | 2153 | 204 |
| 58 | 3.99 | 1.620 | 1.270 | 0.950 | 0.730 | 0.550 | 2538 | 241 |
| 70 | 4.82 | 1.920 | 1.360 | 1.040 | 0.840 | 0.740 | 2830 | 269 |
| 80 | 5.51 | 1.930 | 1.430 | 1.150 | 0.940 | 0.820 | 3032 | 288 |
| 90 | 6.20 | 2.080 | 1.340 | 1.110 | 0.920 | 0.760 | 3178 | 302 |
| 100 | 6.89 | 2.240 | 1.530 | 1.270 | 1.060 | 0.900 | 3352 | 319 |



INJECTOR ACCESSORIES

Grams Performance offers replacement accessories for injectors including: O-rings, seals, upper adapters, lower adapters, harness adapters, connectors. All accessories are sold separately or are included in application specific kits. For a full list please visit our site.

- *Compact (1600, 2200cc) injectors usually require an upper adapter.
- *Compact xT (1150cc) injectors usually require a lower adapter.



MOTORSPORTS FUEL INJECTORS

Grams Performance 1150 and 1600 are high flow fuel injectors specifically designed for motorsports applications. The injectors are made using special stainless steel internal components that are compatible with all fuels including oxygenated gasoline and alcohol based fuels.

FEATURES

- > Stainless steel valve seat, needle, and ball
- > Compatible with all fuels including: Methanol, ethanol, leaded and unleaded, oxygenated

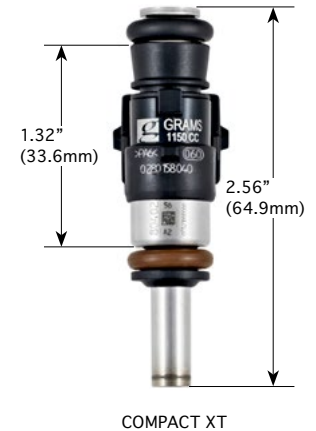
G2-99-0109

1150 CC/MIN • 109 LBS/HR

EV1-Jetronic electrical connector



| Fuel Pressure | | Voltage Offset | | | | | Flow Rate | |
|---------------|------|----------------|----------|----------|----------|----------|-----------|--------|
| PSID | BAR | 8 Volts | 10 Volts | 12 Volts | 14 Volts | 16 Volts | cc/min | lbs/hr |
| 43.5 | 2.99 | 2.070 | 1.875 | 1.500 | 1.300 | 1.177 | 1150 | 109 |
| 45 | 3.10 | 2.152 | 1.950 | 1.560 | 1.352 | 1.224 | 1170 | 111 |
| 50 | 3.44 | 2.238 | 2.028 | 1.622 | 1.406 | 1.272 | 1233 | 117 |
| 55 | 3.79 | 2.327 | 2.109 | 1.686 | 1.462 | 1.322 | 1293 | 123 |
| 60 | 4.13 | 2.420 | 2.193 | 1.753 | 1.520 | 1.374 | 1350 | 128 |
| 65 | 4.48 | 2.516 | 2.280 | 1.823 | 1.580 | 1.428 | 1405 | 133 |
| 70 | 4.82 | 2.616 | 2.371 | 1.895 | 1.643 | 1.485 | 1459 | 138 |
| 75 | 5.17 | 2.676 | 2.431 | 1.955 | 1.703 | 1.545 | 1510 | 143 |
| 80 | 5.51 | 2.731 | 2.486 | 2.010 | 1.758 | 1.600 | 1559 | 148 |
| 85 | 5.86 | 2.781 | 2.536 | 2.060 | 1.808 | 1.650 | 1607 | 152 |



G2-99-0111

1600 CC/MIN • 152 LBS/HR

EV1-Jetronic electrical connector



| Fuel Pressure | | Voltage Offset | | | | | Flow Rate | |
|---------------|------|----------------|----------|----------|----------|----------|-----------|--------|
| PSID | BAR | 8 Volts | 10 Volts | 12 Volts | 14 Volts | 16 Volts | cc/min | lbs/hr |
| 43.5 | 2.99 | 2.701 | 1.785 | 1.300 | 0.980 | 0.750 | 1565 | 148 |
| 45 | 3.10 | 2.942 | 1.862 | 1.350 | 1.030 | 0.795 | 1629 | 155 |
| 50 | 3.44 | 3.185 | 1.945 | 1.420 | 1.080 | 0.840 | 1692 | 161 |
| 55 | 3.79 | 3.427 | 2.027 | 1.460 | 1.130 | 0.885 | 1756 | 167 |
| 60 | 4.13 | 3.670 | 2.110 | 1.510 | 1.180 | 0.930 | 1819 | 173 |
| 65 | 4.48 | 3.392 | 2.365 | 1.625 | 1.240 | 0.975 | 1883 | 179 |
| 70 | 4.82 | 4.662 | 2.620 | 1.741 | 1.300 | 1.020 | 1947 | 185 |
| 75 | 5.17 | 5.333 | 3.497 | 1.805 | 1.320 | 1.035 | 2010 | 191 |
| 80 | 5.51 | 6.033 | 4.375 | 1.877 | 1.350 | 1.050 | 2074 | 197 |
| 85 | 5.86 | 6.742 | 5.254 | 1.936 | 1.375 | 1.065 | 2137 | 203 |
| 90 | 6.20 | 7.435 | 6.130 | 2.011 | 1.400 | 1.080 | 2201 | 209 |



Utilizing premium materials, advanced manufacturing techniques, and stringent quality control procedures, Grams Performance is a leader in high-performance Fuel Pumps. Grams Hi-Flow Fuel Pumps are designed for high performance naturally aspirated or forced induction vehicles.

G51-99-0255

255 LPH • 405 LBS/HR E85 COMPATIBLE IN-TANK FUEL PUMP

FEATURES

- > Replacement for Walbro Gss 342 high flow pumps
- > Flows 450 lbs/hr (284 lph) at 45 psi
- > Outlet size 0.35" (8.9mm)
- > In-tank application specific fitment
- > Quiet and reliable turbine impeller

KIT INCLUDES:

- Electrical connector
- 4" (102mm) of fuel line
- Hose clamps
- O-rings
- 2"x2" (51x51mm) Filter sock
- 2"x4" (51x102mm) Filter sock
- Steel bracket
- Rubber spacer/isolator

Electric Fuel Pump Test @ 13.2 volts DC

| | | | | | | | | | | | | | |
|---------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Fuel Pressure | 40 | 45 | 50 | 55 | 60 | 65 | 70 | 75 | 80 | 85 | 90 | 95 | 100 |
| Flow lbs/hr | 466 | 450 | 432 | 419 | 403 | 387 | 368 | 355 | 339 | 327 | 311 | 289 | 262 |
| Flow lph | 294 | 284 | 272 | 264 | 254 | 244 | 232 | 224 | 214 | 206 | 196 | 182 | 165 |



G51-99-0265

265 LPH • 420 LBS/HR E85 IN-TANK FUEL PUMP

FEATURES

- > Perfect replacement for compact pumps
- > Flows 448 lbs/hr (282 lph) at 45 psi
- > Outlet size 0.35" (8.9mm)
- > In-tank application specific fitment
- > Compatible with all fuel types
- > Quiet and reliable turbine impeller

KIT INCLUDES:

- Electrical connector
- 4" (102mm) of fuel line
- Hose clamps
- O-rings
- 2"x2" (51x51mm) Filter sock
- 2"x4" (51x102mm) Filter sock

Electric Fuel Pump Test @ 13.2 volts DC

| | | | | | | | | | | | | | |
|---------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Fuel Pressure | 40 | 45 | 50 | 55 | 60 | 65 | 70 | 75 | 80 | 85 | 90 | 95 | 100 |
| Flow lbs/hr | 466 | 448 | 436 | 420 | 400 | 386 | 361 | 345 | 332 | 320 | 297 | 274 | 255 |
| Flow lph | 294 | 282 | 275 | 264 | 252 | 243 | 228 | 217 | 209 | 202 | 187 | 173 | 161 |





G51-99-0320

320 LPH • 507 LBS/HR E85 IN-TANK FUEL PUMP**FEATURES**

- > Replacement for super high flow and fixed fuel pumps
- > Flows 490 lbs/hr (309 lph) at 45 psi
- > Outlet size 0.47" (11.9mm)
- > In-tank application specific fitment
- > Compatible with all fuel types
- > Quiet and reliable turbine impeller

KIT INCLUDES:

- Electrical connector
- 4" (102mm) of fuel line
- Hose clamps
- O-rings
- 2"x2" (51x51mm) Filter sock
- 2"x4" (51x102mm) Filter sock

Electric Fuel Pump Test @ 13.2 volts DC

| Fuel Pressure | 40 | 45 | 50 | 55 | 60 | 65 | 70 | 75 | 80 | 85 | 90 | 95 | 100 |
|---------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Flow lbs/hr | 507 | 490 | 472 | 456 | 439 | 422 | 405 | 391 | 375 | 357 | 342 | 308 | 287 |
| Flow lph | 320 | 309 | 297 | 287 | 277 | 266 | 255 | 246 | 236 | 225 | 216 | 194 | 181 |



G51-99-0440

280 LPH • 444 LBS/HR E85 COMPATIBLE INLINE FUEL PUMP***FEATURES**

- > Replacement for Bosch® 044
- > Flows 438 lbs/hr (276 lph) at 45 psi
- > Ethanol compatible
- > 12mm outlet and 18mm inlet female threads

KIT INCLUDES:

- Electrical terminals
- Boot covers
- Outlet adapter

Electric Fuel Pump Test @ 14.1 volts DC

| Fuel Pressure | 40 | 45 | 50 | 55 | 60 | 65 | 70 | 75 | 80 | 85 | 90 | 95 | 100 |
|---------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Flow lbs/hr | 444 | 438 | 432 | 424 | 417 | 413 | 406 | 398 | 392 | 387 | 383 | 376 | 368 |
| Flow lph | 280 | 276 | 272 | 267 | 263 | 260 | 256 | 251 | 247 | 244 | 242 | 237 | 232 |

The compact aluminum casing design of our fuel filters paired with an element which filters 100 or 20 microns is sure to provide a fuel injection solution to keep your system flowing freely with minimal pressure drop. Grams fuel filters keep your injectors and engine uncontaminated and functioning at peak performance by filtering out dirt, rust or other foreign particles.

FEATURES

- > Minimal pressure drop
- > Stainless steel mesh media 60 square inches
- > Hard anodized aluminum casing for superior strength and corrosion resistance
- > Offered in a variety of AN -06, -08, -10 fittings
- > Compatible with all fuel types
- > EFI compatible
- > Radiused ends producing improved internal fuel flow

100 MICRON FUEL FILTER

| Part # | Fitting Size* |
|-------------|---------------|
| G60-99-0106 | -6 |
| G60-99-0108 | -8 |
| G60-99-0100 | -10 |

20 MICRON FUEL FILTER

| Part # | Fitting Size* |
|-------------|---------------|
| G60-99-0026 | -6 |
| G60-99-0028 | -8 |
| G60-99-0020 | -10 |

* Fittings are included in the kit.



PRO TIP: Contamination is the number one killer of injector performance. For the ultimate fuel injection protection, install the 100-micron filter before the fuel pump and the 20-micron filter after. Filtering the fuel before and after the fuel pump will ensure greater protection for your fuel injection system and safeguard to your injectors.



FUEL PRESSURE REGULATOR

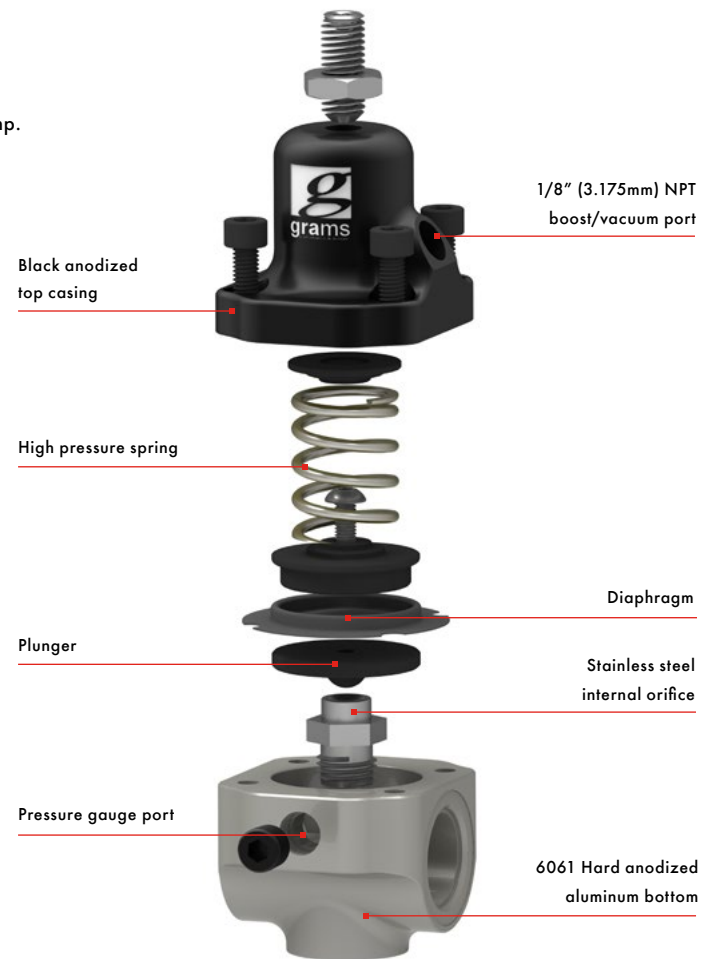
Control your fuel system with the Grams Performance fuel pressure regulator. These regulators feature a black anodized top and high quality 6061 hard anodized aluminum bottom. At the heart of the regulator is a durable custom diaphragm, a stainless steel internal orifice, and a high pressure spring that allows for pressure adjustment ranging from 30 - 118 psi (2 - 8 bar). Each regulator features two AN -10 ORB inlets, one AN -06 ORB outlet, boost/vacuum port, gauge port and provisions for a mounting bracket.

G60-99-0000

FEATURES

- > 30 - 118 psi (2 - 8 bar) pressure range
 - > Two Inlets at AN -10 ORB
 - > One outlet/return at AN -06 ORB
 - > 1/8" (3.175mm) NPT boost/vacuum port
 - > 1:1 Boost/vacuum rise ratio
 - > 6061 Hard anodized aluminum
 - > Black anodized top
- > Compatible with all fuel types
 - > Rebuildable internals
 - > M6 x 1.0 Mounting location size

*Not recommended with a high pressure mechanical fuel pump.
*Compatible with fuel injection only.



GRAMS FUEL PRESSURE REGULATOR EXPLODED VIEW



DID YOU KNOW?

Grams Performance regulators are designed with simplicity and practicality in mind: a hard anodized aluminum bottom allows for all fuel types to flow freely through diaphragm.

G2-99-0055

WIDEBAND AIR/FUEL RATIO GAUGE

For optimum power and safety, measuring your air/fuel ratio is imperative when tuning. The Grams Wideband Air/Fuel Gauge measures at 52mm (2.047") with an LED display that features a 3 color sweep from red, yellow to green. The Grams Wideband utilizes the latest Bosch® 4.9 LSU sensor that displays an easy to read 4 digit display with speedy accuracy down to 0.001.

FEATURES

- > 52mm (2.047") Gauge Housing
- > 0-5v analog output (10-20 AFR)
- > Bosch® 4.9 LSU sensor with weld-in bung included
- > Accuracy down to 0.001 with a 4 digit display
- > Display output from 10:1 to 20:1 AFR
- > LED Display w/ 3 Color sweep from red, yellow, green



G2-99-0030 | 30 psi • 2.06 bar G2-99-1200 | 120 psi • 8.27 bar

FUEL PRESSURE GAUGE

Compliment your fuel regulator with the Grams fuel pressure gauge. These easy to read, matte black stainless steel gauges measure 0-30 psi (2.06 bar) or 0-120 psi (8.27 bar) and are glycerin filled to accommodate applications with the highest vibrations. While adjusting the regulator, the Grams Fuel Pressure Gauge will provide you an accurate fuel pressure reading at a glance.

FEATURES

- > 30 and 120 psi // 2.06 and 8.27 bar
- > 38.1mm (1.5") face
- > Matte black stainless steel case and bezel
- > Stainless steel and brass construction
- > Glycerin filled
- > 1/8" (3.175mm) NPT fitting
- > Shatterproof polycarbonate lens



Grams Performance & Designs Drive-By-Wire Electronic Throttle Bodies are a technological first in the performance aftermarket. Instead of cannibalizing or using parts from existing OEM electronic throttle bodies such as TPS sensors and servo motors, we designed our own proprietary in-house programmable TPS Sensor utilizing non-contact hall effect sensors and use new high-torque precision servo motors. Our sensor technology allows us to adjust the response curve by up to 16 different points so we can significantly increase airflow while still retaining smooth throttle characteristics. Each system features proprietary internals that allow for increased airflow without sacrificing the drive-ability vehicle owners expect. Our drive-by-wire systems feature a CNC-machined from 6061 aluminum large bore, resulting in significant horsepower gains on naturally aspirated and forced induction applications. They come in a wide range of applications and sizes from 70mm (2.75") up to 98.5mm (3.87").

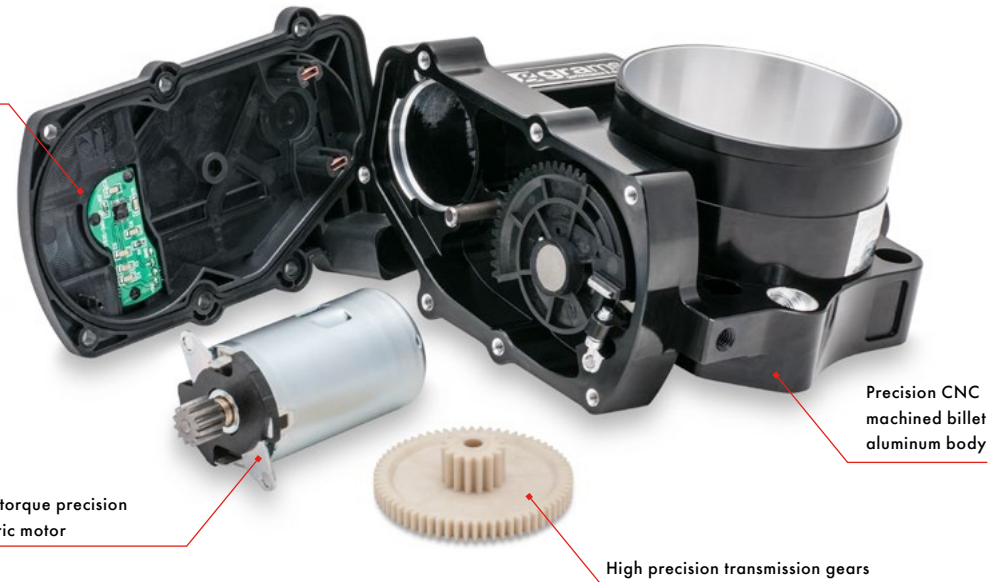
FEATURES

- > Non-contact hall effect TPS (Throttle Position Sensor)
- > 0 - 100 pt positions dictated by cap / motor / blade
- > Comes pre-calibrated
- > Response curve optimized for each application
- > CNC machined from forged, billet 6061-T6 aluminum
- > High torque Johnson Controls motor
- > Fully machined oversized bore
- > Precision shaft machined for increased flow
- > Complete and ready to run unit
- > Adapter wiring harness included when needed.

*The kit is complete and ready to go, straight from the box. This is the only complete system on the market today.

Visit our website for a full list of current applications.

Factory programmable proprietary high precision non contact hall effect sensor



Precision CNC machined billet aluminum body

High torque precision electric motor

High precision transmission gears



DID YOU KNOW?

Grams DBW electronic throttle bodies are the first aftermarket throttle body with an all new proprietary cap. As a vital addition to each throttle body, each cap features a circuit board that is programmed to calibrate special, unique coding for each vehicle application.








GRAMS PERFORMANCE & DESIGN

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www.GramsPerformance.com

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