

NOTES:

1.

THIS DRAWING DESCRIBES THE FUELAB 515xx SERIES FUEL PRESSURE REGULATOR.
2.

FEATURES INCLUDE:
  - TWO -10AN INLET PORTS (ON EITHER SIDE OF REGULATOR, FOR MODELS 51501,51503, AND 51505), MODELS 51502, 51504 AND 51506 HAVE TWO -6AN INLET PORTS.
  - ONE -6AN RETURN PORT (ON BOTTOM OF REGULATOR)
  - AVAILABLE IN PRESSURE RANGES: "L", "C", "T", "E" AND "G"
  - BILLET ALUMINUM, STAINLESS STEEL CONSTRUCTION WITH FLUOROSILICONE DIAPHRAGM AND SEALS. PLUG AND FITTING ARE MADE OF UNPLATED BRASS.
3.

FUEL COMPATIBILITY INCLUDES:
  - GASOLINE (PUMP OR RACE)
  - METHANOL
  - ETHANOL (INCLUDING E85)
  - DIESEL
4.

UNIQUE SERIAL NUMBER DOES NOT CONTAIN DIRECT INFORMATION IN DETERMINING MODEL NUMBER. CONTACT FUELAB FOR DETERMINATION OF MODEL NUMBER BASED ON SERIAL NUMBER.
5.

BRACKET, PRESSURE ADJUSTMENT HARDWARE, BRACKET MOUNTING HARDWARE, GAUGE PORT PLUG, BARBED FITTING, 3X PORT O-RINGS AND INSTRUCTIONS INCLUDED, BAGGED SEPARATELY FROM REGULATOR.
6.

REFERENCE DRAWING 1050201A1 FOR ASSEMBLY INSTRUCTIONS.
7.

SEE TABLES BELOW FOR DETERMINATION OF DESIRED MODEL NUMBER.
8.

RATED FLOW CAPACITY IS A FUNCTION OF PRESSURE SETTING AS WELL AS RETURN LINE SIZE AND CONFIGURATION, THEREFORE FLOW CAPACITY MAY BE HIGHER OR LOWER, BUT REPRESENTS TYPICAL CAPACITY. REGULATION SLOPE REFERS TO CHANGES IN FUEL PRESSURE AS A FUNCTION OF CHANGES IN FLOW RATE. AS THE AMOUNT OF FUEL RUNNING THROUGH THE REGULATOR REDUCES, THE REGULATED PRESSURE WILL LOWER, SPECIFIED BY THE REGULATION SLOPE.
9.

FOR TYPICAL EFI APPLICATIONS, PRESSURE REFERENCE PORT IS PLUMBED TO THE ENGINE'S INTAKE MANIFOLD. CHANGES IN AIR PRESSURE AT THIS PORT WILL RESULT IN A CHANGE IN FUEL PRESSURE AT A RATIO OF 1:1.

MODEL NUMBER SCHEME:

51501 - c

c = COLOR CODE

EFI ("E" PRESSURE RANGE) REGULATOR WITH TWO -10AN INLET PORTS STANDARD REGULATOR SEAT

51503 - c

c = COLOR CODE

CARBURETED ("C" PRESSURE RANGE) REGULATOR WITH TWO -10AN INLET / OUTLET PORTS, LARGE REGULATOR SEAT

51505 - c - s - p

p = PRESSURE RANGE CODE

s = SEAT SIZE CODE (S-STANDARD, L-LARGE)

c = COLOR CODE

CUSTOM FUEL PRESSURE REGULATOR WITH TWO -10AN INLET PORTS

51502 - c

c = COLOR CODE

EFI ("E" PRESSURE RANGE) REGULATOR WITH TWO -6AN INLET PORTS STANDARD REGULATOR SEAT

51504 - c

c = COLOR CODE

CARBURETED ("C" PRESSURE RANGE) REGULATOR WITH TWO -6AN INLET / OUTLET PORTS, LARGE REGULATOR SEAT

51506 - c - s - p

p = PRESSURE RANGE CODE

s = SEAT SIZE CODE (S-STANDARD, L-LARGE)

c = COLOR CODE

CUSTOM FUEL PRESSURE REGULATOR WITH TWO -6AN INLET PORTS

PRESSURE RANGE CODE WITH SEAT SIZE, p - s

| P | APPROX. PRESSURE RANGE      | S | SEAT SIZE | APPROX. FLOW CAPACITY | REGULATION SLOPE |
|---|-----------------------------|---|-----------|-----------------------|------------------|
| L | 1-3 PSID (0.1 - 0.22 BAR)   | L | LARGE     | 1.25 GPM (285 LPH)    | 0.7 PSI/GPM      |
| C | 4-12 PSID (0.28 - 0.82 BAR) | L | LARGE     | 2.5 GPM (570 LPH)     | 0.8 PSI/GPM      |
| T | 10-25 PSID (0.7 - 1.7 BAR)  | S | STANDARD  | 2.5 GPM (570 LPH)     | 0.9 PSI/GPM      |
| T | 10-25 PSID (0.7 - 1.7 BAR)  | L | LARGE     | 3.2 GPM (725 LPH)     | 0.9 PSI/GPM      |
| E | 25-90 PSID (1.7 - 6.2 BAR)  | S | STANDARD  | 2.5 GPM (570 LPH)     | 3.0 PSI/GPM      |
| E | 25-90 PSID (1.7 - 6.2 BAR)  | L | LARGE     | 3.7 GPM (1000 LPH)    | 3.0 PSI/GPM      |
| G | 90-125 PSID (6.0 - 8.6 BAR) | S | STANDARD  | 3.7 GPM (1000 LPH)    | 5.75 PSI/GPM     |

COLOR CODE, c

| C  | COVER COLOR | BODY COLOR |
|----|-------------|------------|
| 1  | BLACK       | BLACK      |
| 2  | RED         | CLEAR      |
| 3  | BLUE        | CLEAR      |
| 4  | PURPLE      | CLEAR      |
| 5  | GOLD        | BLACK      |
| 6  | GREEN       | CLEAR      |
| 7  | BLACK       | CLEAR      |
| 8  | RED         | BLACK      |
| 9  | BLUE        | BLACK      |
| 10 | PURPLE      | BLACK      |
| 11 | GOLD        | CLEAR      |
| 12 | GREEN       | BLACK      |

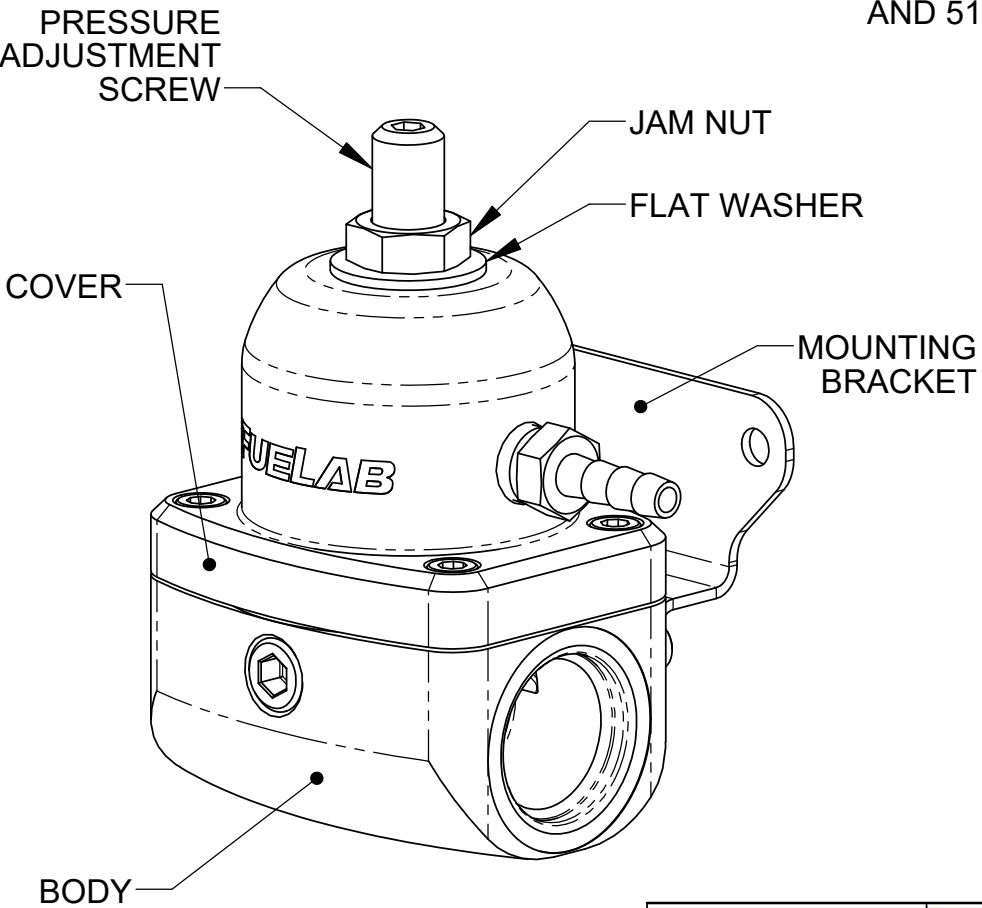
UNIQUE SERIAL NUMBER IDENTIFICATION (ON REAR)

-10AN FEMALE INLET PORTS (SAME ON BOTH SIDES, FOR MODELS 51501,51503 AND 51505 ONLY)

-6AN FEMALE RETURN PORT (ON BOTTOM)

1/8-27 NPT GAUGE PORT (WITH PLUG SHOWN INSTALLED)

3X LOCK WASHERS  
3X BRACKET SCREWS PER 8-32 UNC



ISOMETRIC VIEW (ALL VIEWS SHOWN WITH HARDWARE INSTALLED)

UNLESS OTHERWISE SPECIFIED:  
INTERPRET DWG PER ANSI Y14.5  
DIMENSIONS ARE IN INCHES  
TOLERANCES:  
FRACTIONAL: ±1/64"  
ANGULAR: ± 1/2°  
DECIMALS:  
X ± 1 .XX ± .03 .XXX ± .010  
SURFACE FINISH  
BREAK ALL SHARP EDGES .010 MAX  
REMOVE ALL BURRS  
THIRD ANGLE PROJECTION  
DO NOT SCALE DRAWING

**FUELAB**  
DIGITAL FUEL DELIVERY  
Collinsville, Illinois

TITLE:  
  
**REGULATOR,  
515xx SERIES**

SIZE  
**C**

DWG. NO.  
**105020100**

REV  
**B**

SCALE: 1/1

WEIGHT: .84 LB

SHEET: 1 OF 1