

NOTES:

1.

THIS DRAWING DESCRIBES THE FUELAB 40500 DC BRUSHLESS FUEL PUMP (SPUR GEAR).
2.

FEATURES INCLUDE:
  - -12AN INLET AND -10AN OUTLET PORTS
  - THREE PHASE DC BRUSHLESS MOTOR WITH NEODYMIUM MAGNETS
  - WET MOTOR DESIGN, WITHOUT DYNAMIC SHAFT SEALS
  - SPUR GEAR STYLE PUMPING MECHANISM
  - INTEGRATED CONTROLLER ELECTRONICS WITH PWM SPEED CONTROL
  - BILLET ALUMINUM, STAINLESS STEEL CONSTRUCTION WITH FLUOROSILICONE SEALS
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.

PORT O-RINGS, SADDLE CLAMPS, INSTRUCTIONS CARD AND PERFORMANCE CERTIFICATION INCLUDED, BAGGED SEPARATELY FROM PUMP.
6.

8-24 VOLT OPERATING RANGE, USE BETWEEN 12 VOLT TO 24 VOLT (6 TO 12 CELL LEAD ACID BATTERY) VEHICLE SYSTEMS WITH OR WITHOUT CHARGING SYSTEM.
7.

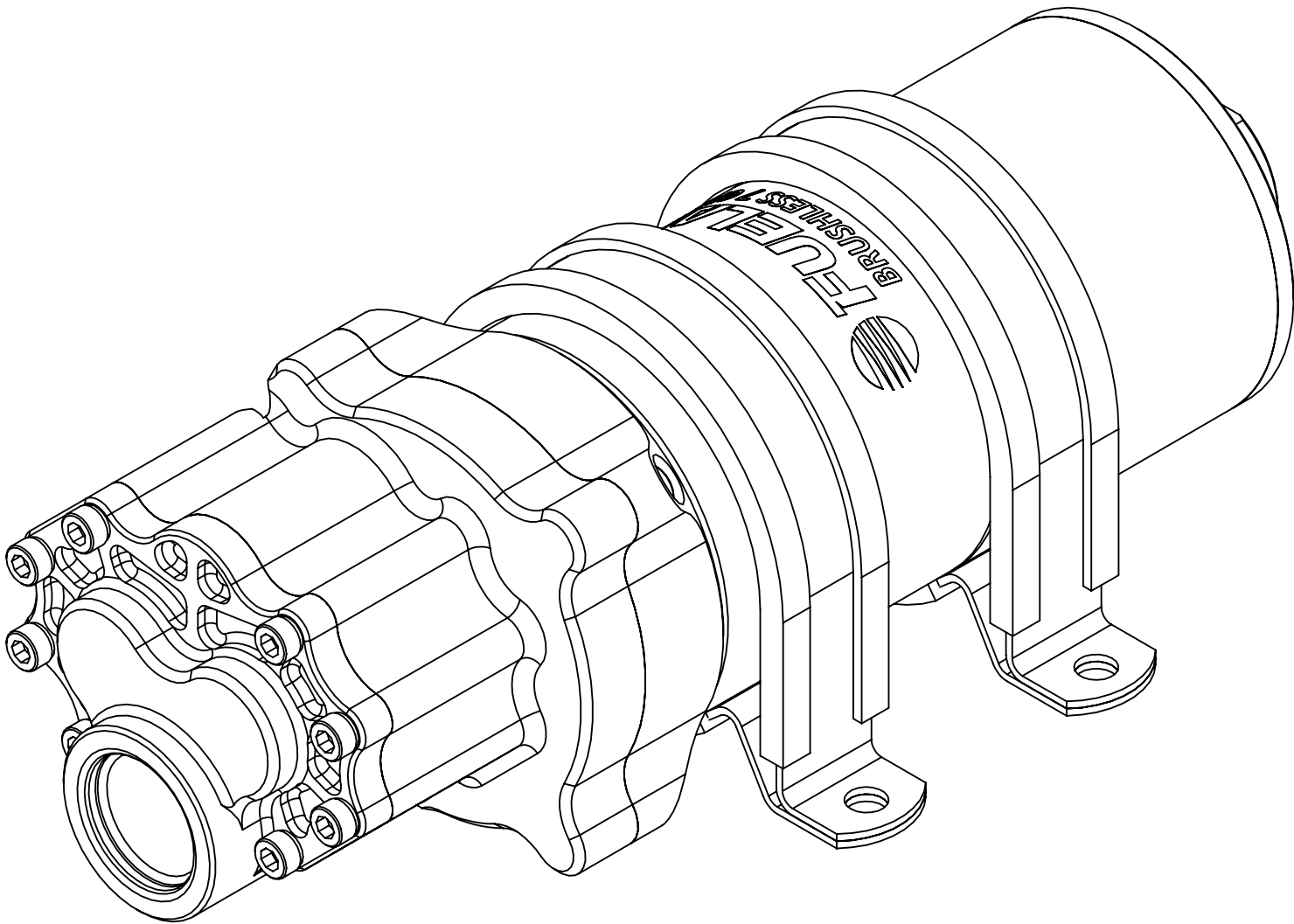
PUMP REQUIRES BYPASS REGULATOR OR RELIEF VALVE TO AVOID OVER-PRESSURE OPERATING CONDITION.
8.

SEE TABLE BELOW FOR DETERMINATION OF DESIRED MODEL NUMBER.
9.

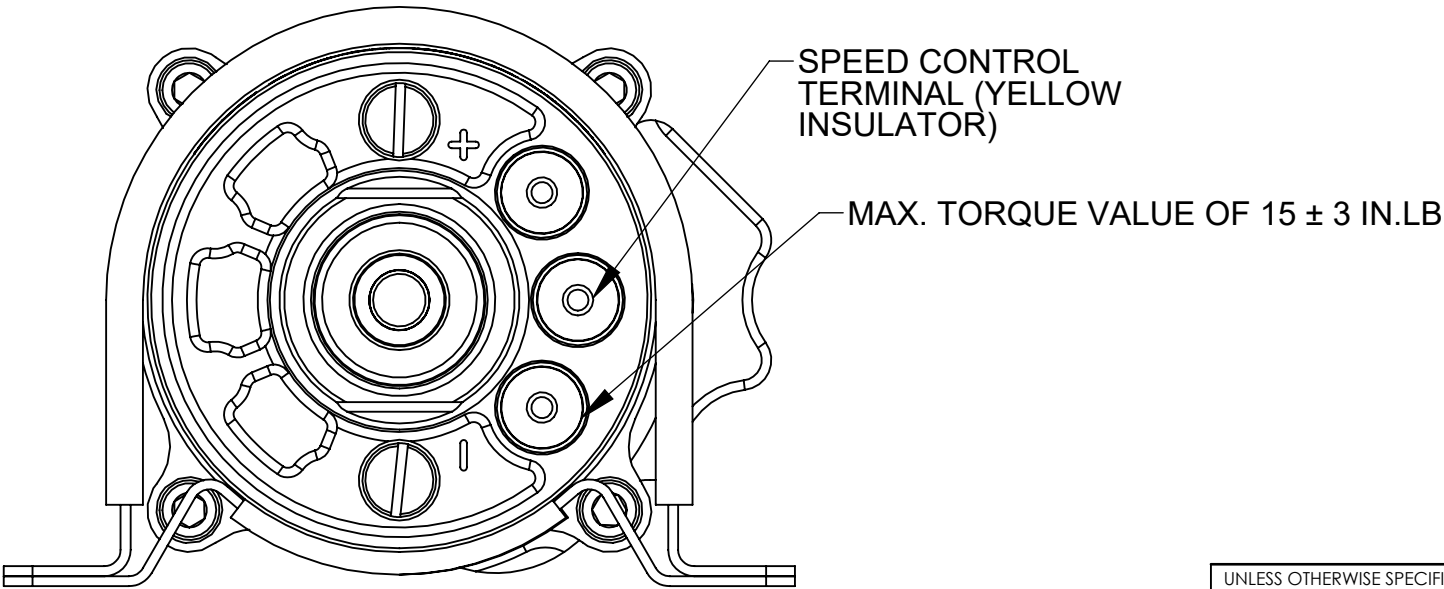
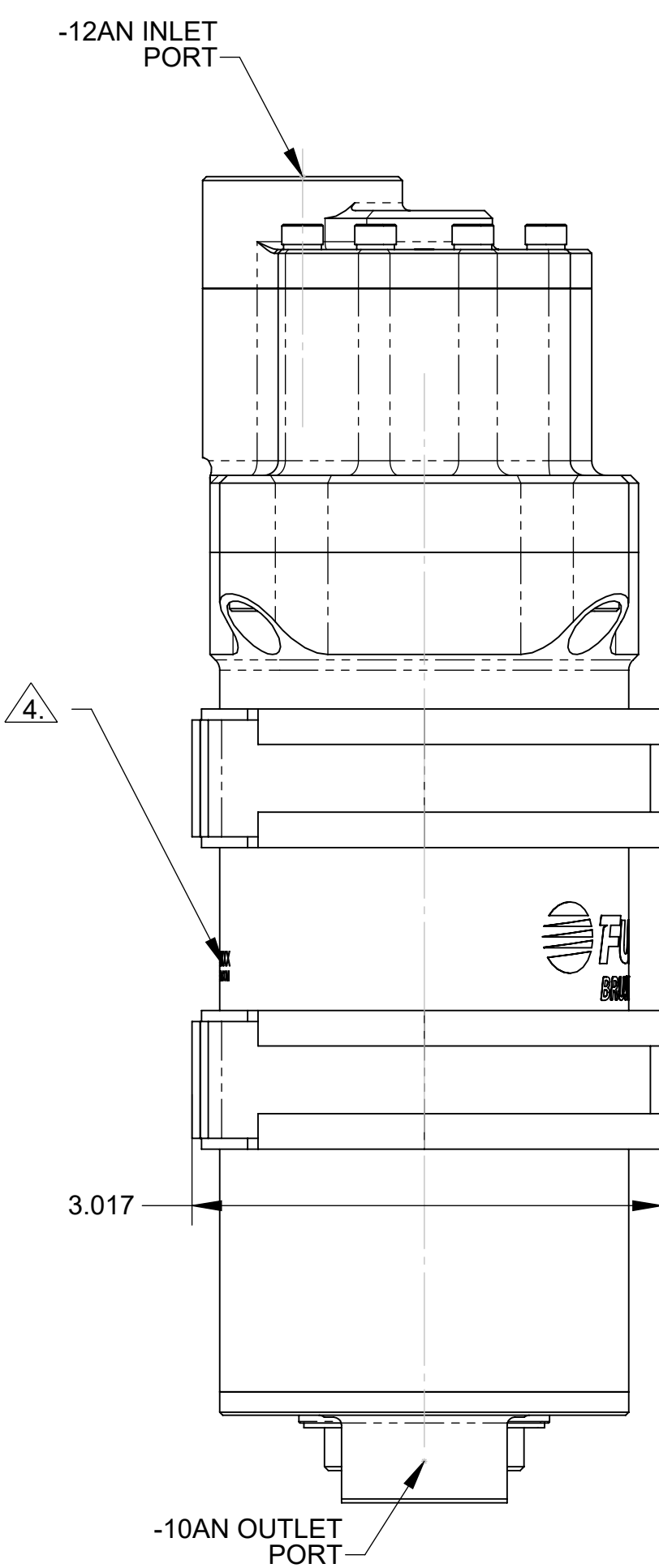
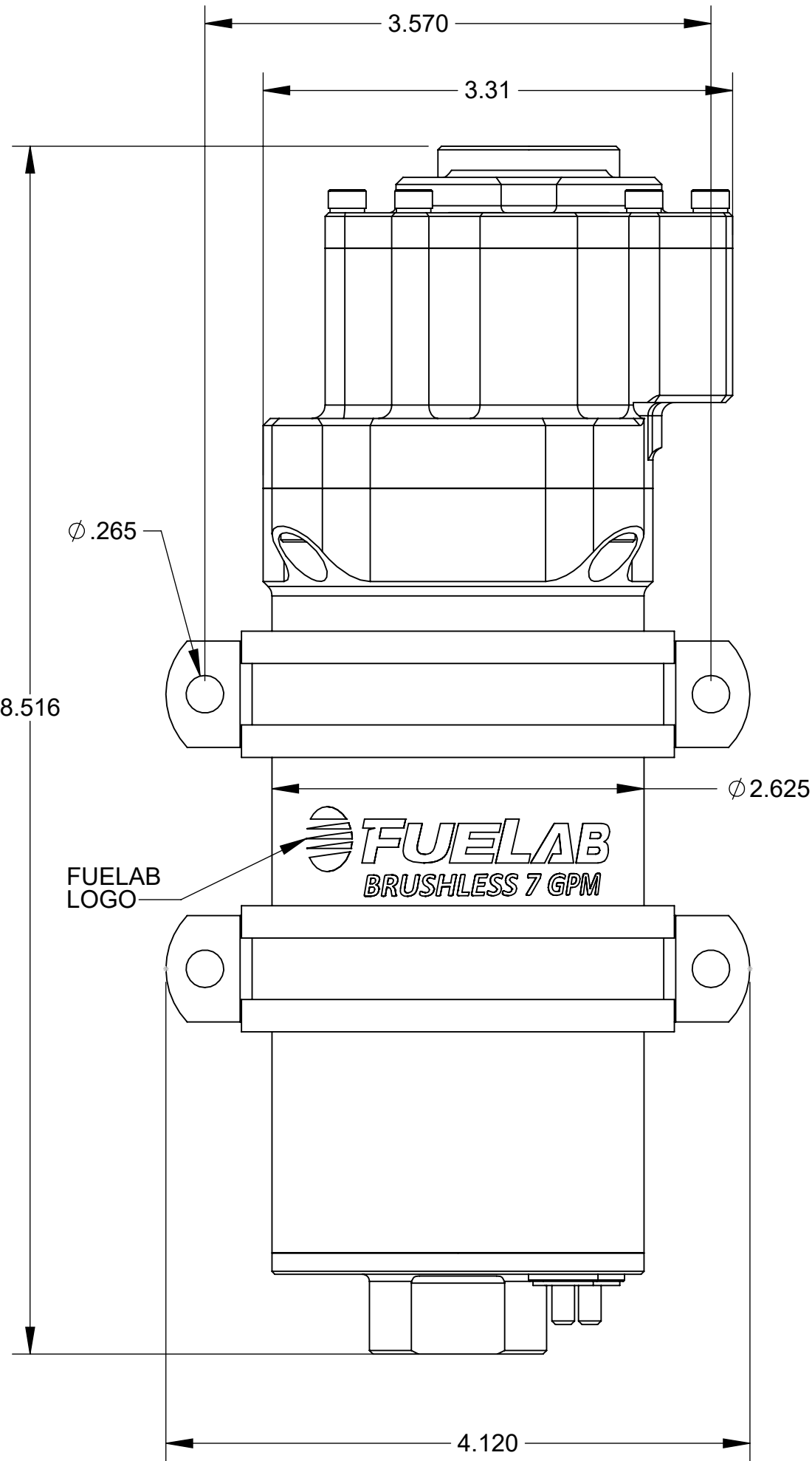
REFERENCE DRAWING 1100210A1 FOR ASSEMBLY INSTRUCTIONS.

MODEL SELECTION TABLE

MODEL	FLOW RATING, AT 13.5v	FLOW RATING, AT 13.5v	MAX. PRESSURE
40500	5 GPM AT 45 PSI	1135 LPH AT 3.0 BAR	95 PSI (6.5 BAR)



ISOMETRIC VIEW



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   128   ✓ OR BETTER  
BREAK ALL SHARP EDGES .010 MAX  
REMOVE ALL BURRS

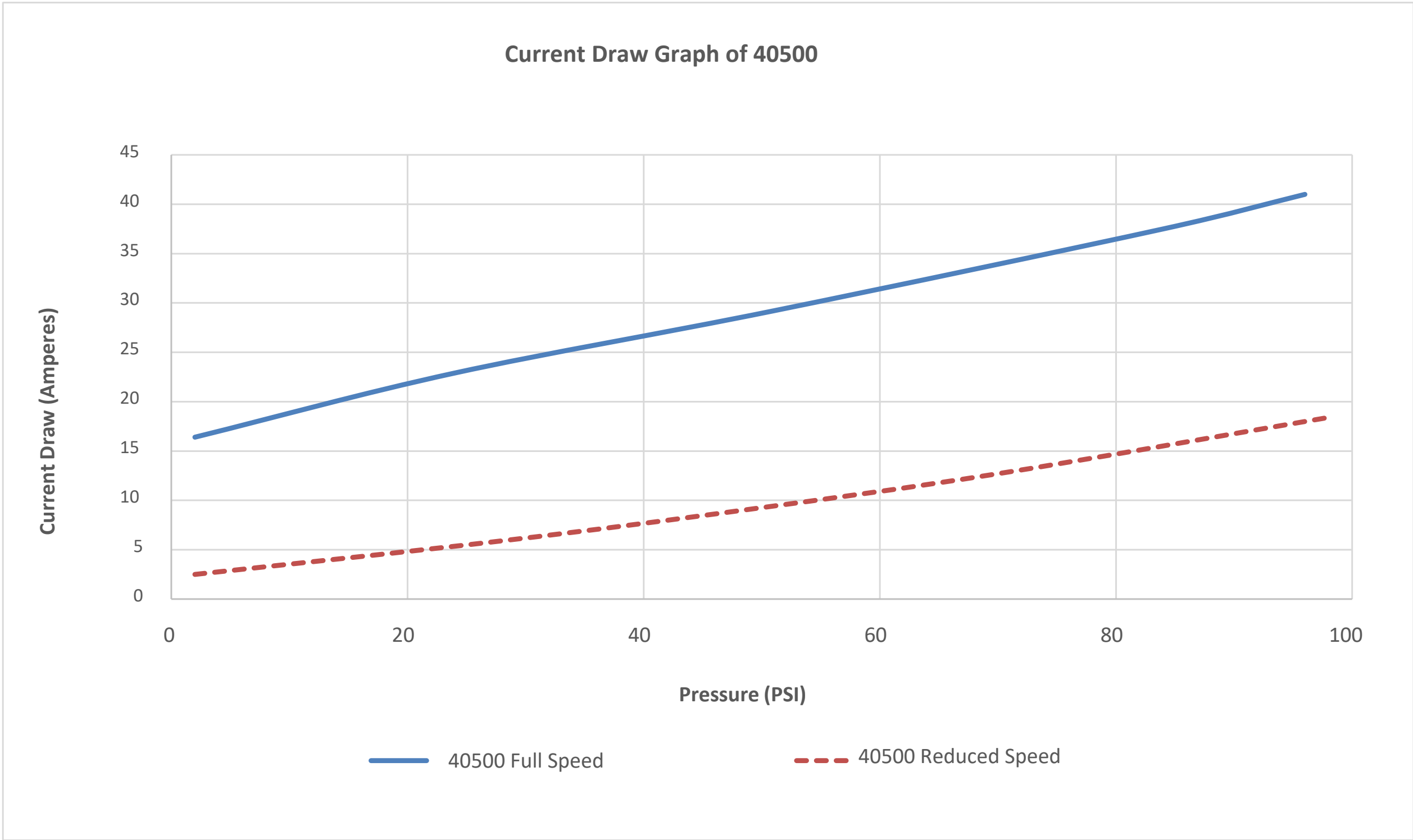
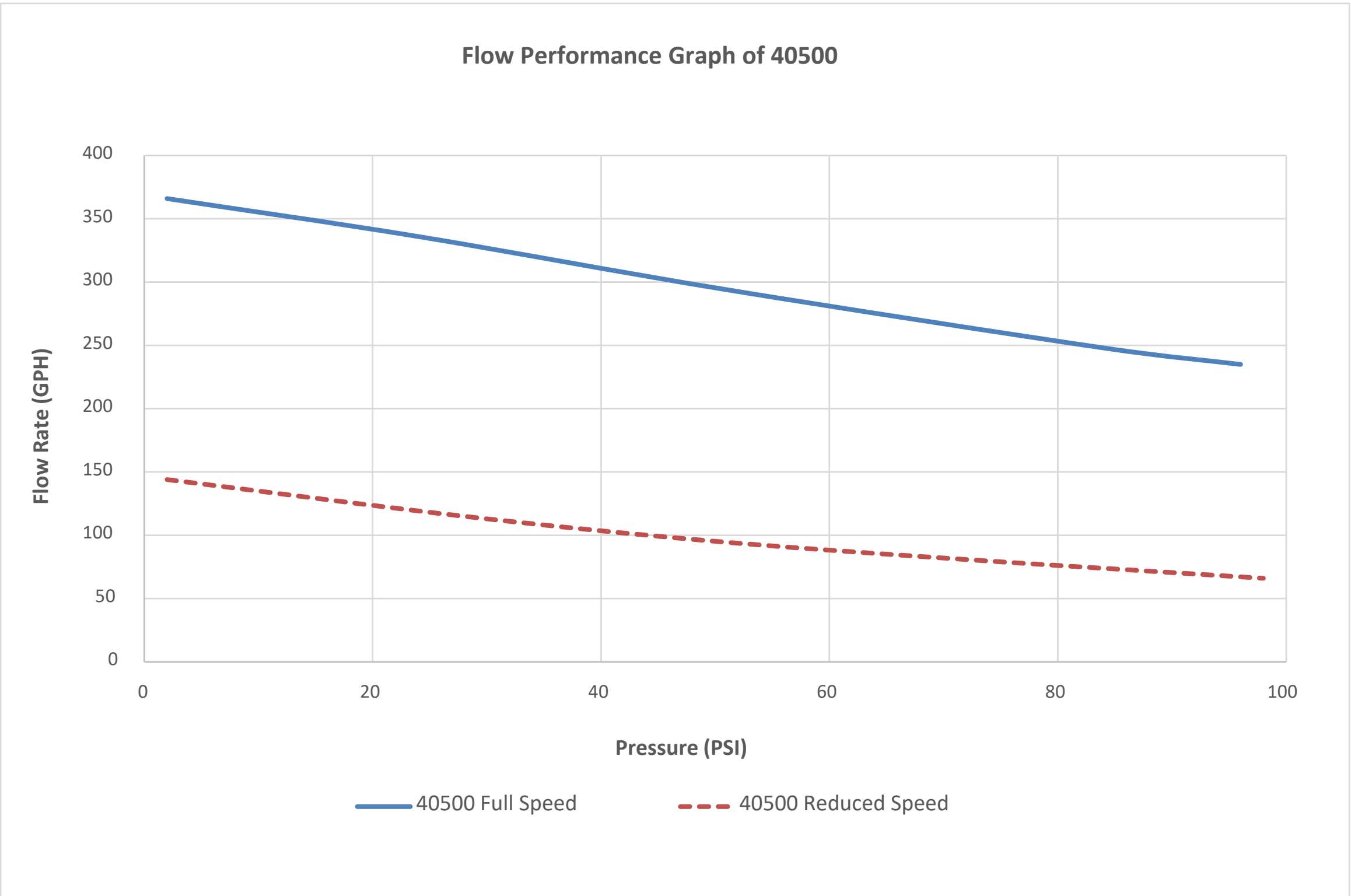
THIRD ANGLE  
PROJECTION

DO NOT SCALE DRAWING

**FUELAB**  
DIGITAL FUEL DELIVERY Pontoon Beach, Illinois

TITLE:  
**DC BRUSHLESS FUEL  
PUMP, 40500**

SIZE <b>C</b>	DWG. NO. <b>110021000</b>	REV <b>C</b>
SCALE: 1/1	WEIGHT: 3.5 LBS	SHEET: 1 OF 2



UNLESS OTHERWISE SPECIFIED:  
INTERPRET DWG PER ANSI Y14.5  
DIMENSIONS ARE IN INCHES  
TOLERANCES:  
FRACTIONAL:  $\pm 1/64"$   
ANGULAR:  $\pm 1/2^\circ$   
DECIMALS:  
X  $\pm .1$  XX  $\pm .03$  .XXX  $\pm .010$   
SURFACE FINISH  $\sqrt{128}$  OR BETTER  
BREAK ALL SHARP EDGES .010 MAX  
REMOVE ALL BURRS

THIRD ANGLE PROJECTION

DO NOT SCALE DRAWING

**FUELAB**  
DIGITAL FUEL DELIVERY Pontoon Beach, Illinois

TITLE:  
**DC BRUSHLESS FUEL PUMP, 40500**

SIZE <b>C</b>	DWG. NO. <b>110022000</b>	REV <b>C</b>
SCALE: 1/1	WEIGHT: 3.5 LBS	SHEET: 2 OF 2