

# Series BLD Regulator User Instructions

**Scope:**

These User Instructions are applicable for Generant Series BLD Regulators.

**Intended Use:**

The Series BLD regulators intended use is in Pressure Build circuit applications and true cryogenic pressure reducing regulator applications.

**Technical Data:**

Series BLD Regulators are 100% factory tested for leakage, droop and flow performance. Every regulator is marked with Manufacturer, Part Number, Date Code, Maximum Inlet Pressure, Set Pressure Range and Direction of Flow. Regulators come factory pre-set based on the end customer specifications. If a set pressure is specified, it is listed at the end of the part number (EX: 2BLD-500B-B-125 is set at 125 PSI). Regulators can also be ordered with set pressure omitted. These regulators are factory set and tested at a set pressure defined by spring which is listed in the table below.

Maximum Inlet Pressure: 600 PSIG (41.4 Bar)

Pressure Code	Spring Code	Range (PSIG)	PSI/Turn (ref)	Std. Set
A	A (Black)	15 – 75	12	35
B	B (Red)	50 – 200	20	125
C	C	100 – 350	40	300
D	C *	300 – 600	70	450

\* Requires Chamber Ring



Generant Series BLD Regulators are supplied “Cleaned for Oxygen Service” standard in heat sealed in poly bags. Once removed from the bag, integrity of this cleaning has been compromised. Proper handling should be used to ensure the integrity and cleanliness of the system.

**Operating Instructions:**

1. Ensure that the regulator is installed according to the directional flow indicators marked on the regulator body.
2. To adjust regulator, refer to the table above to adjust to desired pressure build setpoint from Factory Pre-Set pressure. Turn regulator adjusting screw (3/8” square head) clockwise to increase pressure and counter-clockwise to decrease pressure. See table above for approximate PSI per turn when adjusting. Regulators are non-relieving. When bench setting, regulator outlet pressure cannot be decreased with pressure applied and regulator outlet blocked. To decrease outlet pressure on a test bench, the outlet line must be manually vented of excess pressure as screw is turned counter-clockwise.
2. Once desired adjustment is made, the regulator can be locked by tightening the lock nut (9/16”) on the adjustment screw.

Generant Regulators are field repairable and springs can be interchanged for A, B, C, or D range models. Service parts can be ordered from the factory.

**Safe Component Selection**

When selecting a component, the total system design must be considered to ensure safe, trouble free performance. Component function, materials compatibility, adequate ratings, proper installation, operation, cleanliness and maintenance are the responsibility of the system designer and user.