Melt Pressure Gauge Instruction Manual

Before Proceeding

Check to insure that the model number of the Skylark melt pressure gauge is suitable for your application. Skylark melt pressure gauges are available in two (2) unique designs. The CYRRG style is a rigid stem only version of the melt pressure gauge, or the CYRG style which also has a rigid stem but additionally incorporates 30” of flexible capillary. The next designation is a numeric number indicating the rigid stem length in inches. This is then followed by the pressure range designation (i.e -10K = 0-10,000 psi, -5K = 0-5000 psi).

Introduction

Your Skylark melt pressure gauge will provide years of trouble free service if proper care is taken during handling, installation and use. Also included with your melt pressure gauge is a Transducer Care Guide. Please refer to this data sheet for additonal information.

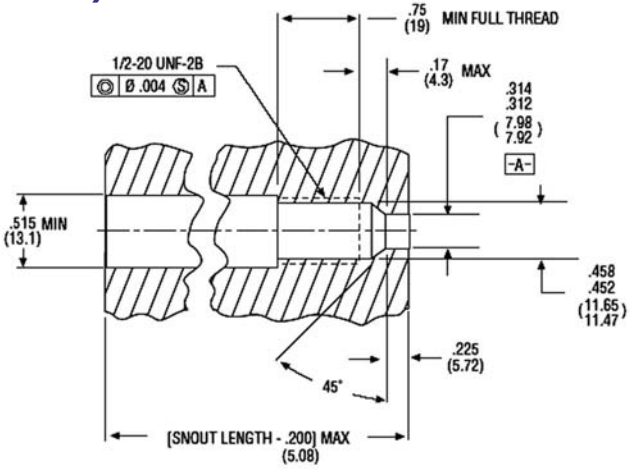
Operating Principle

Skylark melt pressure gauges are totally mechanical devices, requiring no power, that are used to make pressure measurements of molten polymers up to 750ºF (400ºC).

Installation

Do not remove protective cap covering the gauge threads until ready to install. Prior to initial installation, verify correct machining of the 1/2-20UNF mounting hole. Detailed mounting hole information is available at www.cyronix.com (under the technical section). When reinstalling make sure that the mounting hole is clear of material. A Cyronix Cleaning Tool Kit (CLEANKIT - SKYLARK), should be used. To prevent galling, lightly coat the gauge threads with a high temperture anti-seize material. And adequate seal, in a properly machined and maintained mounting well, is obtained in 100 in-lbs (8.3 ft-lbs) mounting torque. Maximum recommended torque is 500 in-lbs (41.6 ft-lbs).

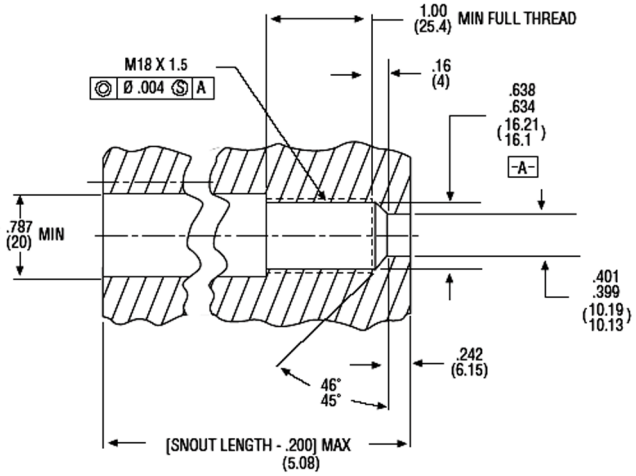
Mounting Hole (1/2-20 UNF)



SKYLARK CONTROLS

Tel: 416 444-6614
Fax: 416 444-0353

Optional Mounting Hole (M18 x 1.5)



Start-Up

Bring system to perating temperature, with no pressure, and adjust the ZERO screw located on the side of th gauge dial. Next, rotate the gauge dial to allow for easy viewing of pressure readings. Allow sufficient “soak time” to assure that any material at the gauge tip is moletn before extruder drive is started.

Removal

The melt pressure gauge should only be removed when polymer is hot and liquid. Wipe tip with a soft cloth immediately. The melt pressure gauge must be removed before using an abrasive material or wire bruch to clean the extruder barrel. Clean mounting hole completely before reinstalling the gauge by using the Skylark Cleaning Tool Kit. (CLEANKIT - SKYLARK)

Thermocouple Option

The CYRG Style Skylark melt pressure gauge might also incorporate a thermocouple in the rigid stem (designation -J or -K). The standard (-J), Type J (iron-constantan) T/C junction is located just behind the flush diaphragm at the tip of the gauge. This senses the temperature at that point. The thermocouple assembly can be replaced by loosening the #4-40 cup point set screw on the side of the hex assembly and pulling the T/C probe, carefully, straight out, without twisting. Replacement assemblies are available. When installing the thermocouple probe assembly, align the slot with the pressure capillary tube and press into snout until top of probe shoulderes flush against snout. Lock in place with set screw.

Gauge Repair

Questions concerning warranty, repair cost, delivery, and requests for an RMA# should be directed to the Skylark service Department, (416) 444-6614 or by email to service@cyronix.com. Please call for a return authorization number (RMA#) before returning any produt. Damaged melt pressure gauges should be returned to:

Skylark Controls
Attn: Service Department
RMA#_____
12 Upjohn Road, Unit 8
Don Mills, Ontario, M3B 2V9

SKYLARK
CONTROLS

Tel: 416 444-6614
Fax: 416 444-0353