



INSTALLATION INSTRUCTIONS GURU® MAGNUM SERIES PLUG

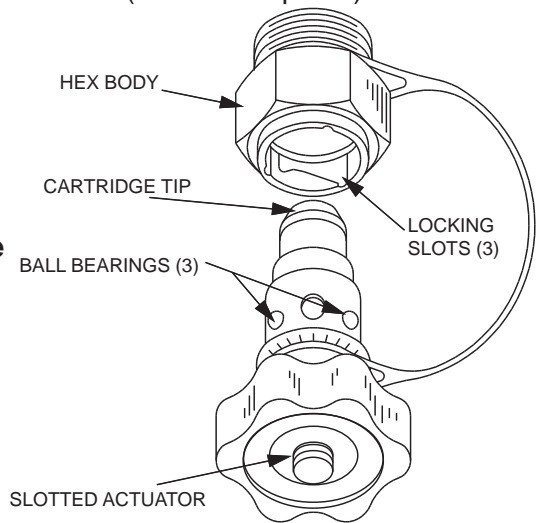
Before installing GURU® Plug, remove nose seal protector from cartridge

1. Select locations for **GURU® PLUGS**: These should be at the lowest positions possible on the system to be freeze protected and should be accessible for future re-arming.
2. Install the **GURU® PLUG** (tightening the hex body to 80 ft-lbs) with its cartridge facing down or at a 45° angle (as shown) for best accessibility. (Make sure lanyard is placed over paint mask and not between paint mask and cartridge tip. Paint mask must be cupped toward cartridge tip.) Do not remove paint mask (cover) on cartridge. Do not cut lanyard!
3. **GURU® PLUG** must be installed with a 2.75 inch minimum operating clearance to allow cartridge to pop out.
4. Cartridge can be removed by pushing in and twisting counter-clockwise (no tools required) and re-installed by pushing in and twisting clockwise.
5. Under freezing conditions, cartridge may be re-installed after reheating.

IMPORTANT: To operate properly in extreme conditions, the GURU® assembly must be dry. If the actuator nose seal or hex body o-ring leaks or drips, replace hex nut and cartridge immediately.

CAUTION: When re-arming GURU® always melt any ice formations from cartridge and inside of hex body prior to installing GURU® PLUG Cartridge to prevent seal damage.

NOTE: Cartridge and inside of hex body must be dry before assembly.



6. Preferred method of testing: GURU® Plug must be removed from cooling system for proper testing. Horizontally place the assembly on a flat surface. Using a can of freeze spray (available through most home-building supply stores or specialty suppliers) intermittently spray the actuator nose to keep a layer of frost on the metal surface. Cartridge should pop within one minute. If not, replace entire unit. Warm the cartridge before reinstalling.

To remove MAGNUM GURU® PLUG CARTRIDGE for service or warming*:

Push cartridge in and twist to the left (counter-clockwise) until it stops. Cartridge will pop out. Remove loop of lanyard cable from GURU® Cartridge.

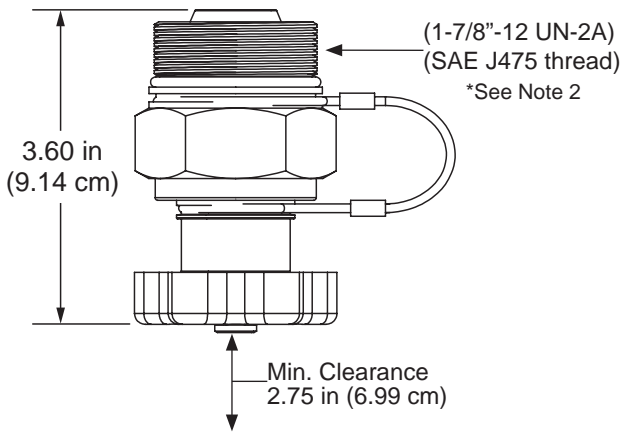
To reinstall MAGNUM GURU® PLUG CARTRIDGE*:

Make sure GURU® Cartridge is warmed to 55°F or higher. Replace loop of lanyard in groove of cartridge. Make sure lanyard is placed over paint mask and not between paint mask and cartridge tip. Paint mask must be cupped toward cartridge tip. Push cartridge in and turn to the right until locked. Do not remove paint mask (cover) on cartridge.

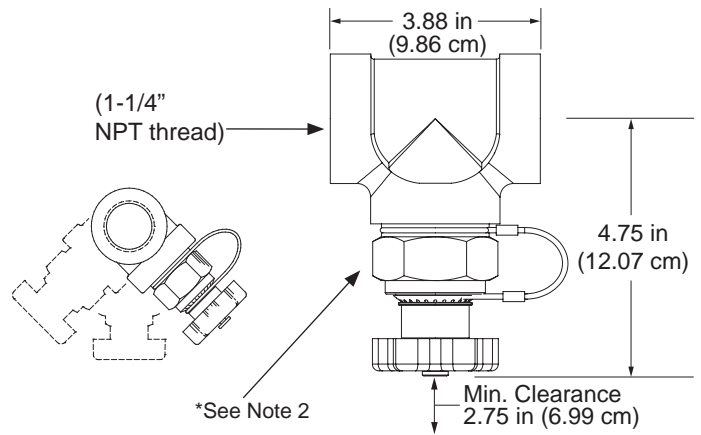
***Prior to filling system with cold water, warm cartridge and place the GURU® Flag and Clip tool (shown above: part number 04-052) in the slotted actuator to prevent cartridge from firing. This will provide a visual indication that a GURU® cartridge is disabled. Do not use if you do not plan to immediately operate locomotive.**



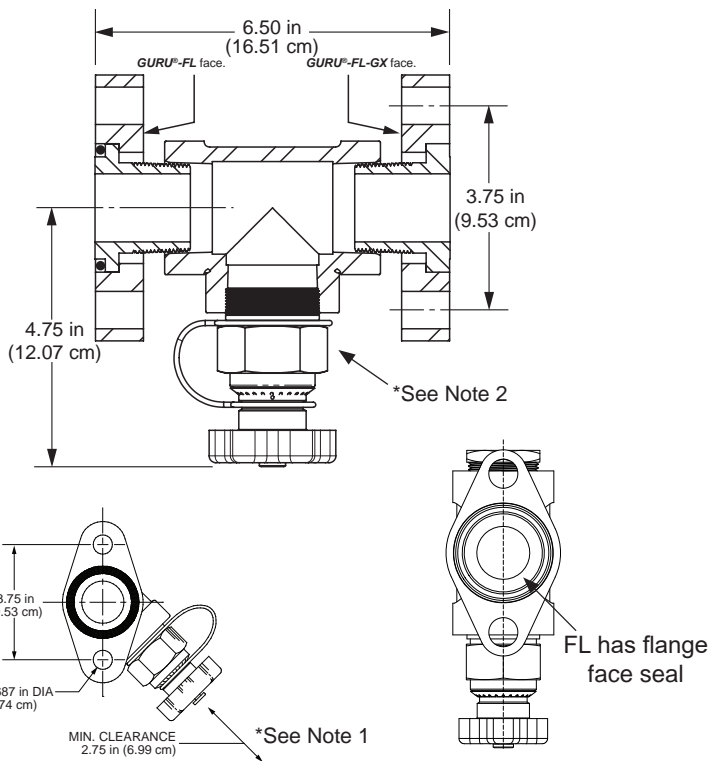
MAGNUM TYPE-S



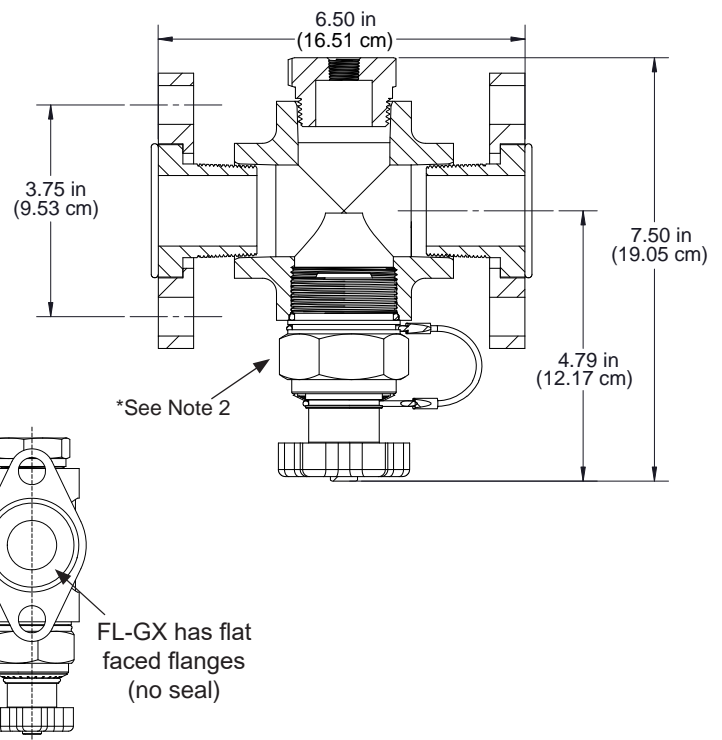
MAGNUM TYPE-T



MAGNUM TYPE-FL, FL-GX & FL/FL-GX



MAGNUM TYPE-CR/FL-GX/P



Note 1: Orient valve so that it faces downward or up to 45° as shown

Note 2: Tighten to 80 ft-lbs upon installation

YEARLY COLOR CODES (CHANGES JANUARY 1)

2017 YELLOW

2018 WHITE

2019 RED

2020 SILVER

2021 GREEN

2022 YELLOW

SERIES REPEATS

! WARNING: This product can expose you to chemicals, for example lead, nickel, acrylonitrile, which are known to the State of CA to cause cancer, birth defects, or reproductive harm. For more information, go to www.P65Warnings.ca.gov

Warranty information disclosed at www.thermomegatech.com/terms-conditions/

GURU_MAGNUM_IMI
REV: 5/23/19