



## ASSEMBLY INSTRUCTIONS

### Grout Flow Cones and Sets HM-372, HM-372B, HM-373, HM-373B & HM-371

Please refer to ASTM C939 *Standard Test Method for Flow of Grout for Preplaced-Aggregate Concrete (Flow Cone Method)* for exact test procedure.

Grout Flow Cones measure the flowability of hydraulic grout used in preplaced aggregate concrete. Flowability is measured by time of discharge of a 1.725L sample of grout through an 0.5in (12.7mm) ID discharge tube orifice from the cone. The cast aluminum Flow Cones all come with an adjustable point gauge assembly to indicate initial sample level.

Gilson Grout Flow Cones can be purchased in a number of different configurations best suited for your application and needs and feature replaceable orifice discharge tubes:

**HM-372 Grout Flow Cone Set** is supplied complete to meet ASTM C939 requirements. An 0.5in (12.7mm) Orifice is already installed, and a 3-Legged Steel Support Stand, and 2L (2.1qt) stainless steel Beaker for use as a receiving container are also included.

**HM-373 Grout Flow Cone Set** is identical to the HM-372 set, but has a 0.75in (19mm) Orifice to be used with alternate test methods.

#### Set Components:

- **HM-372A Painted Steel Stand** is 20.5in (414mm) high. (See assembly instructions below).
- **MA-42 2L Stainless Steel Beaker** is rugged construction and receives grout flow from cone during test. Graduated to 2,000ml, with handle. Larger MA-48 6qt. container is available separately for continuous testing

**HM-372B Grout Flow Cone** is fitted with HMA-146 0.5in Orifice to meet ASTM requirements. Stand and Beakers can be purchased separately.

**HM-373B Grout Flow Cone** is fitted with HMA-147 0.75in Orifice for use with alternate test methods. Stand and Beakers can be purchased separately.

**HM-371 Grout Flow Cone w/No Orifice** does not include an Orifice to regulate flow. It can be fitted with the HMA-146 0.5in Orifice for ASTM testing, or the HMA-147 0.75in Orifice for other methods. Orifices are purchased separately.



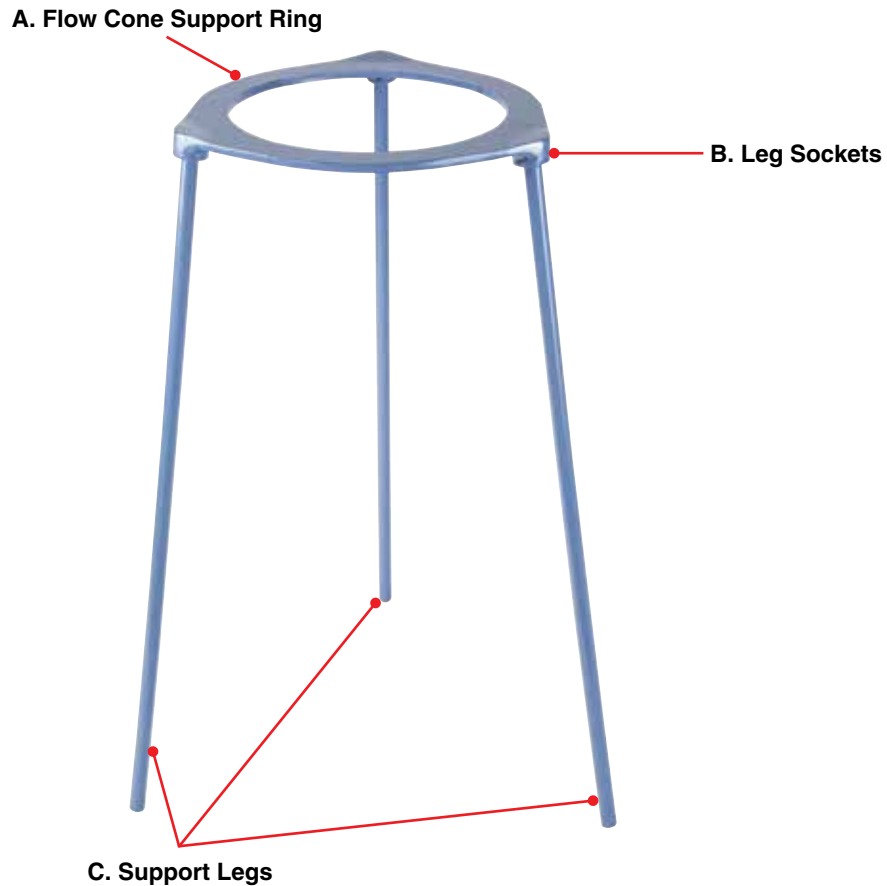
HM-372 Flow Cone Set shown with MA-48 Beaker

Before use, install the selected Orifice fixture using the four screws provided.

#### Cleaning and Maintenance

- Immediately after each use, thoroughly clean the cone, orifice and point gauge assembly with water and a medium-stiff bristle brush. Allowing mortar and cement paste to dry and accumulate on the cone, orifices and gauge may affect accuracy.
- Do not use metal scrapers or wire brushes when cleaning as these may damage the surfaces.
- Using a thin film of light grease on the threads of the point gauge will make it easier to operate and reduce cleaning effort.

CONTINUED Rev: 07/10/2017



**HM-372A Support Stand for Grout Flow Cones**

**Assembly:**

1. Using a 1/8in Hex Head Wrench, loosen the Allen-Head Set Screws of the Flow Cone Support Ring (A), located in the sides of each of the three Leg Sockets (B).
2. Insert a Support Leg (C) fully into each Socket and secure by tightening the Set Screws.
3. Set the assembled Flow Cone Stand on a level, sturdy surface and insert the HM-372B or HM-373B Flow Cone.
4. The assembled set is ready for use following the procedures noted in ASTM C939, Standard Test Method for Flow of Grout for Preplaced-Aggregate Concrete.

**Product Specifications:**

- Dimensions:
  - 7.0in (178mm) ID for top 3.0in (76mm)
  - 7.5in (190mm) ID Cone Section
  - 1.5in (38.1mm) L Discharge Tube
- Grout Volume 1,725 ±5ml

For technical assistance, contact Gilson at [techsupport@gilsonco.com](mailto:techsupport@gilsonco.com) or call 800.444.1508.

To order replacement parts, contact Gilson at [customerservice@gilsonco.com](mailto:customerservice@gilsonco.com) or call 800.444.1508.