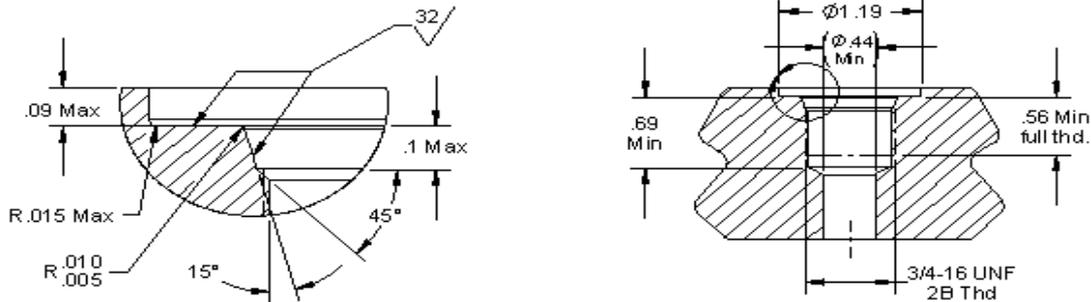


# QUICK START GUIDE

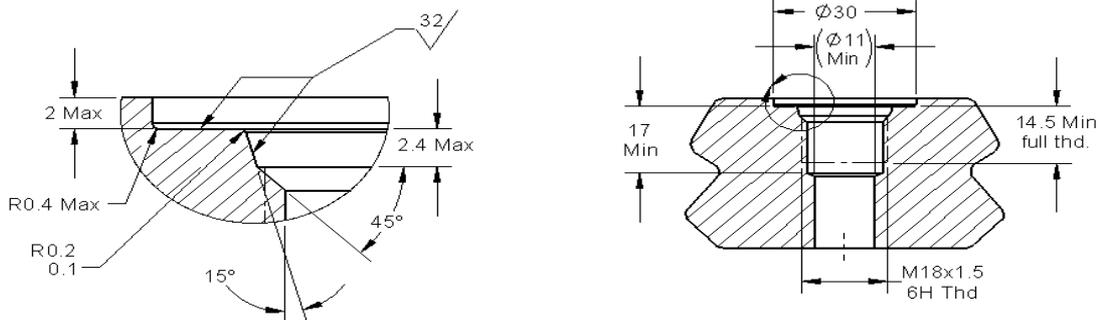
## Installation of ASG's Port Mounting In-cylinder Position Sensors

**Mechanical installation:** ASG's port mounting in-cylinder position sensors are inserted into an o-ring port machined into the rear endcap of the hydraulic cylinder. Standard units use an SAE J1926-1 -8 port with a 3/4-16 UNF thread. Metric threaded versions use an ISO 1649-1 port with an M18 x 1.5 thread. Details of both ports are shown below. For either size, a Viton o-ring has been installed on the sensor's male thread.

### SAE J1926-1 -8 O-ring Port



### ISO 1649-1 M18 O-ring Port



Before insertion of the sensor, the cylinder rod must have a 5/16-inch (8 mm) diameter or larger blind hole gun-drilled into it from the piston end that is 1 inch (25 mm) deeper than the nominal measuring range of the sensor. Be sure the hole size and material of the cylinder rod were given to ASG for proper calibration.

If the mechanical details are correct, the cylinder rod should be moved to its fully retracted position. The sensor may then be inserted into the o-ring port and tightened down using a suitable wrench on its hex.

**Electrical installation:** Connect ASG sensors to the electrical system according to the following charts. If the termination or connection is not shown, consult the sensor's technical data sheet or contact ASG.

| 5-Pin M-12 Connector |     | Cable Color * |
|----------------------|-----|---------------|
| I/O Function         | Pin |               |
| +DC Power input      | 1   | Brown         |
| Ground               | 2   | White         |
| Voltage output       | 3   | Blue          |
| Current output       | 4   | Black         |
| SenSet™              | 5   | Grey          |

\*Cable colors shown are for industry standard M-12 cordset mating plugs

| 4-Conductor Cable |             |
|-------------------|-------------|
| I/O Function      | Cable Color |
| +DC Voltage input | Red         |
| Ground            | Black       |
| Analog output     | Green       |
| SenSet™           | White       |

**SenSet:** Instructions for the SenSet™ procedure can be found on ASG's website: [alliancesensors.com](http://alliancesensors.com). If the SenSet feature is not being used, trim and insulate the end of the SenSet wire or cut it off completely.