

# Maxtek ASF-140/ASF-141

## Adjustable Single Sensor Head/Feedthrough



### EASY TO INSTALL AND ADJUSTABLE FOR FLEXIBILITY IN YOUR VACUUM SYSTEM

The ASF-140 and ASF-141 are pre-assembled sensor feedthrough combinations designed for ease of installation in vacuum systems which require a water cooled sensor, but do not require high temperature bake out.

The sensor's electrical conduit and water lines are pre-assembled through a 1" bolt type, o-ring sealed feedthrough. The water cooling tubes and conduit tube are sealed by means of Cajon Ultra-Torr®, o-ring sealed fittings.

The feedthrough can be moved along the length of the tubes allowing the length inside the vacuum system to be adjusted over a range of 10 to 66 cm (4" to 26"). Once the desired length is determined, the Cajon® fittings allow for a finger tight tube seal.

The water cooled sensor head houses the Cool Drawer™ crystal holder providing excellent thermal stability.

Two sensor configurations are offered: The T (top mounted) version and the S (side mounted) version. The T is designed for installation through the top of the vacuum system and the water cooling tubes are perpendicular to the crystal face. The S version is designed for installation from the side or bottom of the chamber and the cooling tubes and the crystal face are parallel.

#### FEATURES AT A GLANCE

- Adjustable length
- Easy installation
- 2.54 cm (1") bolt feedthrough
- No brazing required
- Cool Drawer™ crystal holder



*Cool Drawer™ crystal holder*

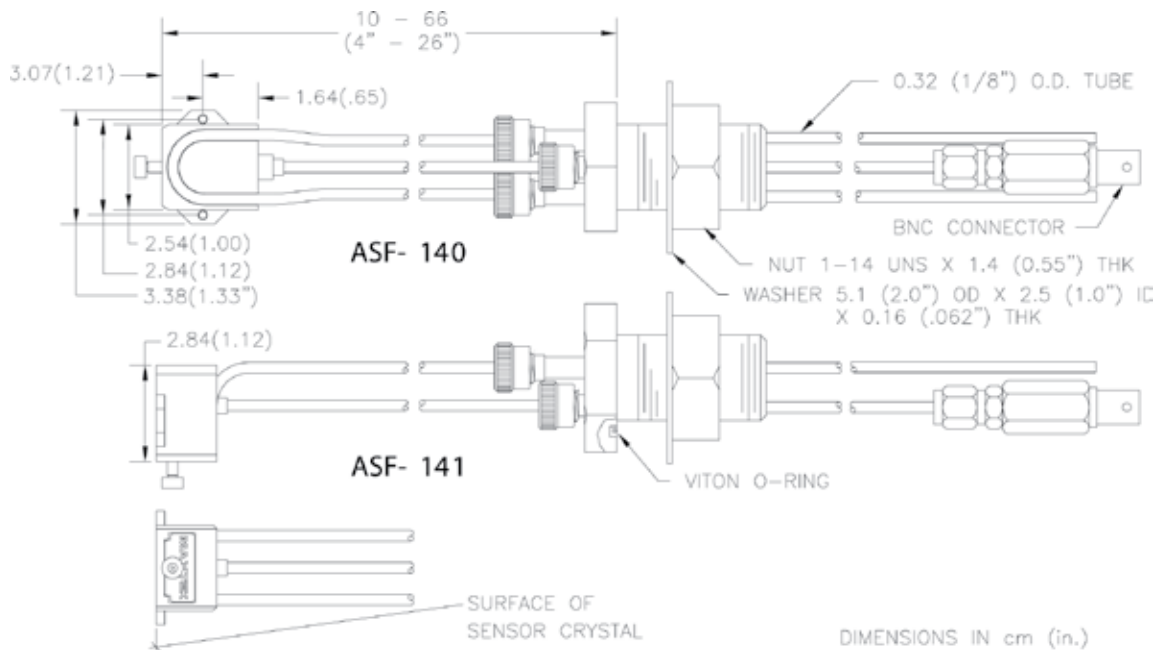
## SPECIFICATIONS

Materials	304 CRES, Teflon®, Ceramic, Beryllium Nickel
Finish	Stainless steel, gold plated Cool Drawer™
Cooling	Water 0.2 GPM using 1/8" O.D. tube
Temperature	Operational environment to 300°C with water cooling or 160°C without
Electrical Connection	(1) standard female BNC on atmosphere side
Crystal	Industry standard 0.550" diameter
Coiled Tube Expansion Range	10 cm (4") to 66 cm (26")
Mounting	1.015" ±0.010" diameter aperture

## ORDERING INFORMATION

Each sensor head includes: (1) ASF-140 or ASF-141, (1) package of 10 each SC-101 crystals

Model #	Part #	Description
ASF-140	150212	Single adjustable sensor head, 2.54 cm (1") bolt feedthrough. Crystal face is parallel to the water tubes for side or base plate mounting.
ASF-141	150214	Single adjustable sensor head, 2.54 cm (1") bolt feedthrough. Crystal face is perpendicular to the water tubes for top mounting.
Each sensor head kit includes: (1) ASF-140 or SF-141, (1) SO-100 oscillator, cables, and (1) package of 10 each SC-101 crystals		
ASF-140 Kit	150907-SO	Single adjustable sensor head, 2.54 cm (1") bolt feedthrough. Crystal face is parallel to the water tubes for side or base plate mounting.
ASF-141 Kit	150907-TO	Single adjustable sensor head, 2.54 cm (1") bolt feedthrough. Crystal face is perpendicular to the water tubes for top mounting.



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