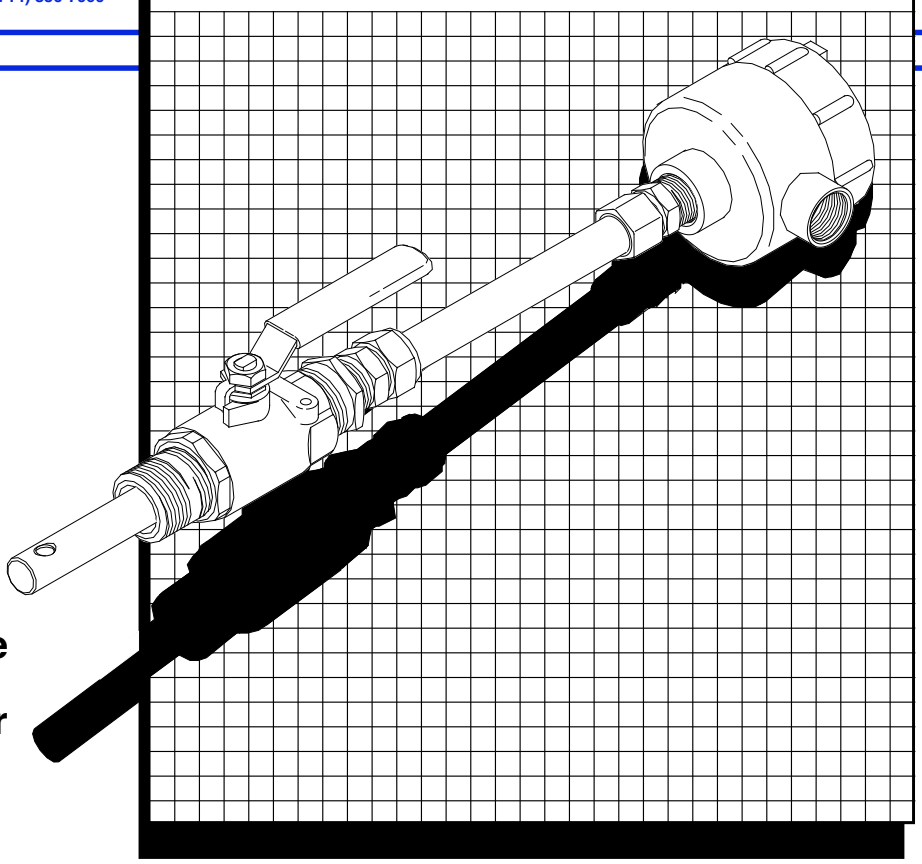
SENSOR DEVELOPMENT, INC.
SANTA ANA, CALIF (714) 836-7090

Model CS40 & CS42
CONDUCTIVITY SENSOR



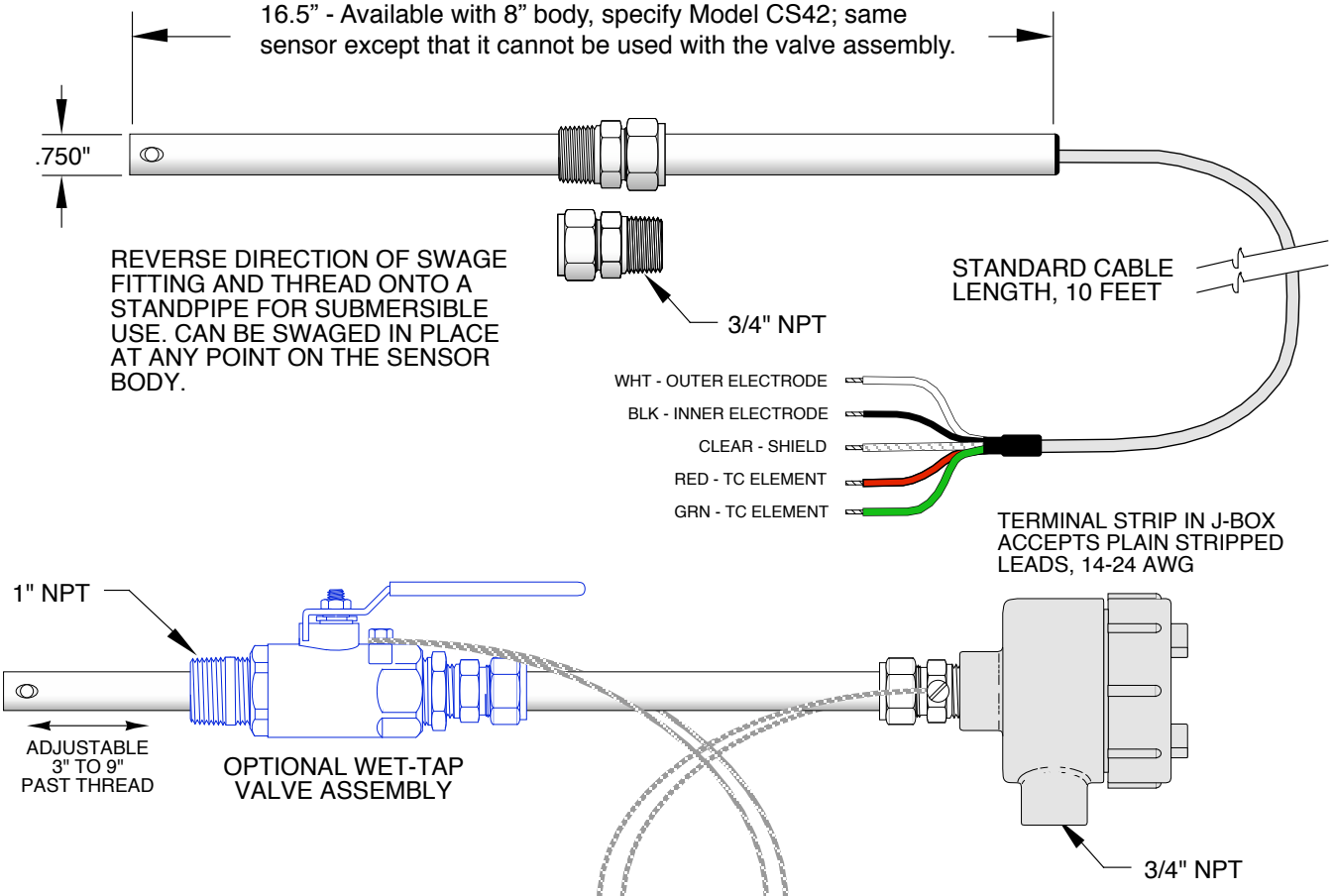
- **Measure conductivity directly in process temperatures up to 150°C with Hi-Temp option**
- **O-ring seals used on all versions for highest on-stream reliability**
- **Optional wet-tap valve allows insertion and removal with line under pressure**

The Model CS40 & CS42 sensors have been designed for a wide measurement range in difficult process conditions. It can be installed in submersion, insertion, or wet-tap configurations, and is good for most applications from high purity water to high chemical concentrations.

Application Notes

Wetted materials of construction are 316 stainless steel and PEEK, with alternate materials available on request. All possible leak paths through the sensor are double sealed qith EPDM O-rings for maximum on-stream reliability. The front O-rings isolate the back ones from chemical attack, giving more than double the service life that can be expected from single sealed units.

Process connections are made via a bored through swage fitting with 3/4" NPT threads. This fitting can be screwed into a line, a tank, or the optional wet-tap valve assembly. It can also be turned around and connected to a standpipe for use in a submersion configuration. Available cell constants range from 0.01 to 20.0 giving it a very broad scope of application.



NOTE; WITH JUNCTION BOX (-JB) OPTION AND NO VALVE ASS'Y (SSV), RATINGS ARE 400 PSIG AT 100°C.

OPTIONAL JUNCTION BOX
CL.I, GR. C, D AND CL.II, GR. E, F, G
EXPLOSIONPROOF, WEATHERPROOF,
PAINTED ALUMINUM

SPECIFICATIONS

MAX. PRESSURE/TEMP. RATINGS:

Standard Sensor - 100 PSIG at 120°C
Hi Temp. Sensor - 125 PSIG at 150°C
Valve Assembly - 50 PSIG at all temperatures, no exceptions.

WETTED MATERIALS:

Electrodes - 316 Stainless Steel
Insulator - PEEK
O-Rings - EPDM FDA APPROVED

CELL CONSTANT:

20/10/5/2/1/0.2/0.1/0.05/0.02/0.01

CONNECTIONS:

Process - 3/4" NPT for sensor/1" NPT for valve

Electrical - Stripped and tinned ends on cable; optional j-box has 3/4" hub and terminal strip to accept plain stripped wire ends, 14-24 ga.

TEMPERATURE COMPENSATION:

10KΩ@25°C/32.66KΩ@0°C NTC is standard. Available options include Pt1000, Pt100, 3K BALCO, 8.55K NTC, Ni100 and many others. Reference the make and model of instrument for assistance in selecting the right element.

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