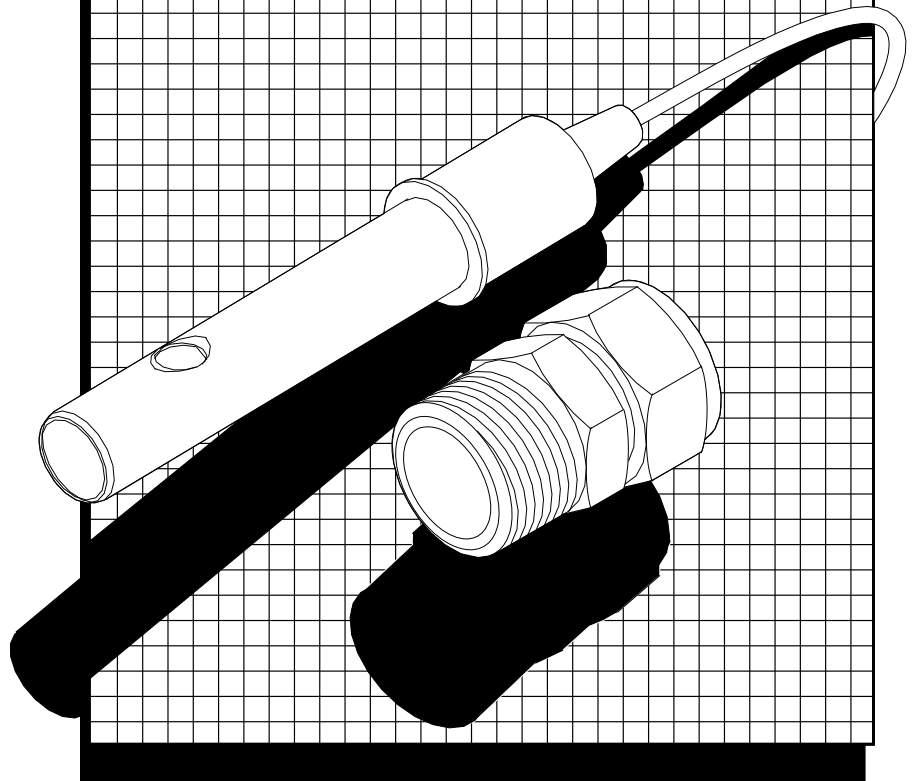




SENSOR DEVELOPMENT, INC.
SANTA ANA, CALIF (714) 836-7090

Model CS10 & 51 CONDUCTIVITY SENSOR

- **Small size enables convenient installation and service**
- **O-ring seals used on all versions for high on-stream reliability**
- **Plastic gland fitting allows removal and replacement without tools**

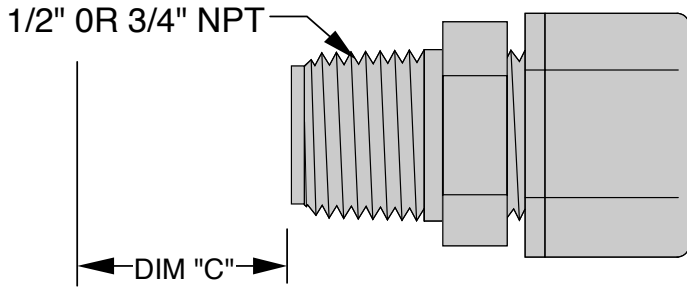
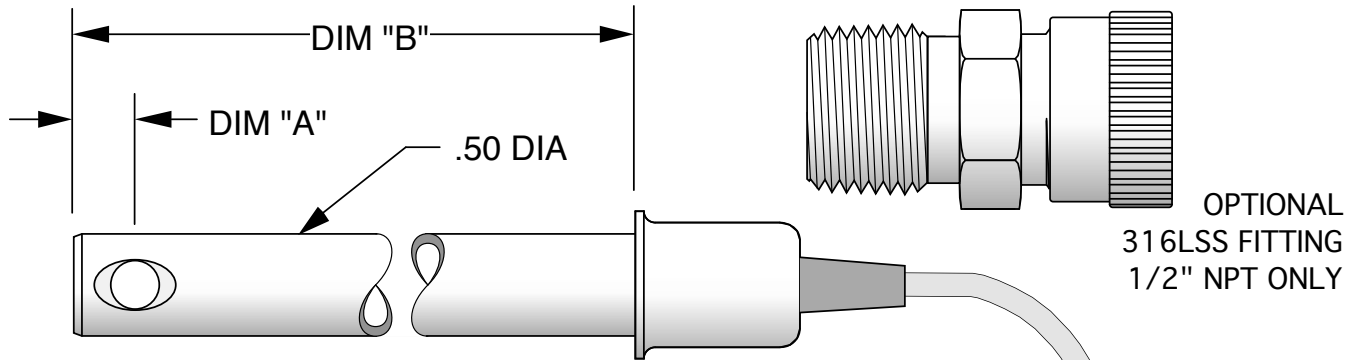


The CS10 and 51 sensors offer a compact design that allows installation into standard pipe fittings in small line sizes such as 3/4" and 1", avoiding the need for special flow cells. Simplicity of the design also allows them to be economically offered in exotic metals for especially corrosive chemical applications.

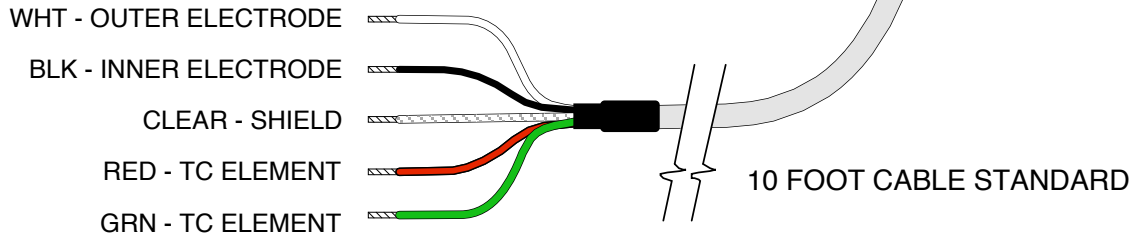
Application Notes

Wetted materials of construction are 316 stainless steel and Teflon, with double o-ring seals at all points. The outer EPDM o-ring bears the brunt of process interface, allowing the back o-ring to maintain reliable sealing free from chemical attack. An integral temperature element tailored to the analyzer of choice allows automatic compensation for maximum accuracy. Leads are 10' standard, stripped and tinned ends or optional spade lugs.

Process connections are made via a bored through swage fitting with 1/2" or 3/4" NPT threads. This fitting can be screwed into a line, or tank, and it can also be turned around and connected to a standpipe for use in a submersion configuration. The CS51 is good for general purpose use up to about 20,000 micromhos on most analyzers, while the CS10 covers a broader range of cell constants and therefore of conductivities.



DIMENSIONAL DATA TABLE			
MODEL NO.	"A"	"B"	"C"
CS10	.3"-2"	5.25"	3.5"
CS10-10.0	5.1"	8.5"	7"
CS51	.3"	2.75"	1"



SPECIFICATIONS

MAX. PRESSURE/TEMP. RATINGS:

100 PSIG at 100°C w/POLYPRO
 150 PSIG at 120°C w/Kynar
 200 PSIG at 120°C w/316SS FITTING
 500 PSIG at 100°C w/316SS FITTING

WETTED MATERIALS:

Insulator - Teflon
O-rings - EPDM FDA APPROVED
Metals - 316LSS Standard; Monel, Titanium and Hastelloy C-276 optional.
Fitting - Polypropylene Standard, 316LSS and Kynar optional.

CELL CONSTANTS:

CS10 - 10.0/1.0/0.2/0.1/0.05/0.02/0.01
 CS51 - 1.0/0.2/0.1

CONNECTIONS:

Polypropylene Process Fitting - 1/2" or 3/4" NPT
Stainless Steel Process Fitting - 1/2" NPT
Kynar Process Fitting - 1/2" NPT

Electrical - 24 gauge stripped and tinned ends

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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