






Waterproofing Options

			
<p><u>Waterproofing Style "A" Series</u></p> <p><i>Suitable For Most Ordinary Completely Submersible Installations</i></p>	<p><u>Waterproofing Style "B" Series</u></p> <p><i>Suitable For the Most Aggressive Agitated Slurry Solutions and Corrosive Liquids</i></p> <p><i>Complete Cable Isolation With Vinyl Tubing and Rugged Clamps</i></p>	<p><u>Waterproofing Style "C" Series</u></p> <p><i>Suitable For the Most Aggressive Agitated Slurry Solutions and Corrosive Liquids</i></p> <p><i>Recommended for similar Installations as Waterproofing Style "B" - Lacks the complete Cable Isolation offered by "B"</i></p>	<p><u>Waterproofing Style "IT" Series</u></p> <p><i>Suitable For Most Applications and the Most Economical and Cost Effective of our Waterproofing Options</i></p> <p><i>Complete Cable Isolation With Vinyl Tubing and Rugged Clamps</i></p>

Waterproofing Options Comparison Chart

									
Description of Waterproofing Options	Material	Family "A" Standard	Family "B" Fully Submersible with Cable Isolation	Family "C" Fully Submersible	Family "IT" Submersible with Cable Isolation				
Most Submersible Applications	(PVC)	A	B	C	IT				
Solvent and Aggressive Media Resistant	(PVC)	D	E	F	IT with "TS"				
Halogen (Chlorine) & Oxidizing Resistant High-Temp Applications	(CPVC)	G	H	I	IT				
Halogen (Chlorine), Oxidizing , Solvent and Aggressive Media Resistant. High-	(CPVC)	J	K	L	IT with "TS"				

Waterproofing Style "A" Series

Suitable For Most Ordinary Completely Submersible Installations

Option Available For:

- 3/4" MNPT Rear Threaded Immersion Sensors (2X12, 6X11, 6X12, 6X13, 6X32 & 6X42 Series Sensors)
- 1" MNPT Rear Threaded Immersion Sensors (6X31, 6X41, 6X51, 6X52 Series Sensors)
- 1" MNPT Read Threaded Twist Lock Sensors w/ guard added to front end (8X31, 8X41, 8X51, 8X52 Sensor Series)
- 1 1/4" MNPT Read Threaded Immersion Sensors - AB 6100 Fluoride Sensors and special orders sensors with 1 1/4" MNPT Threads

Features & Recommended Applications:

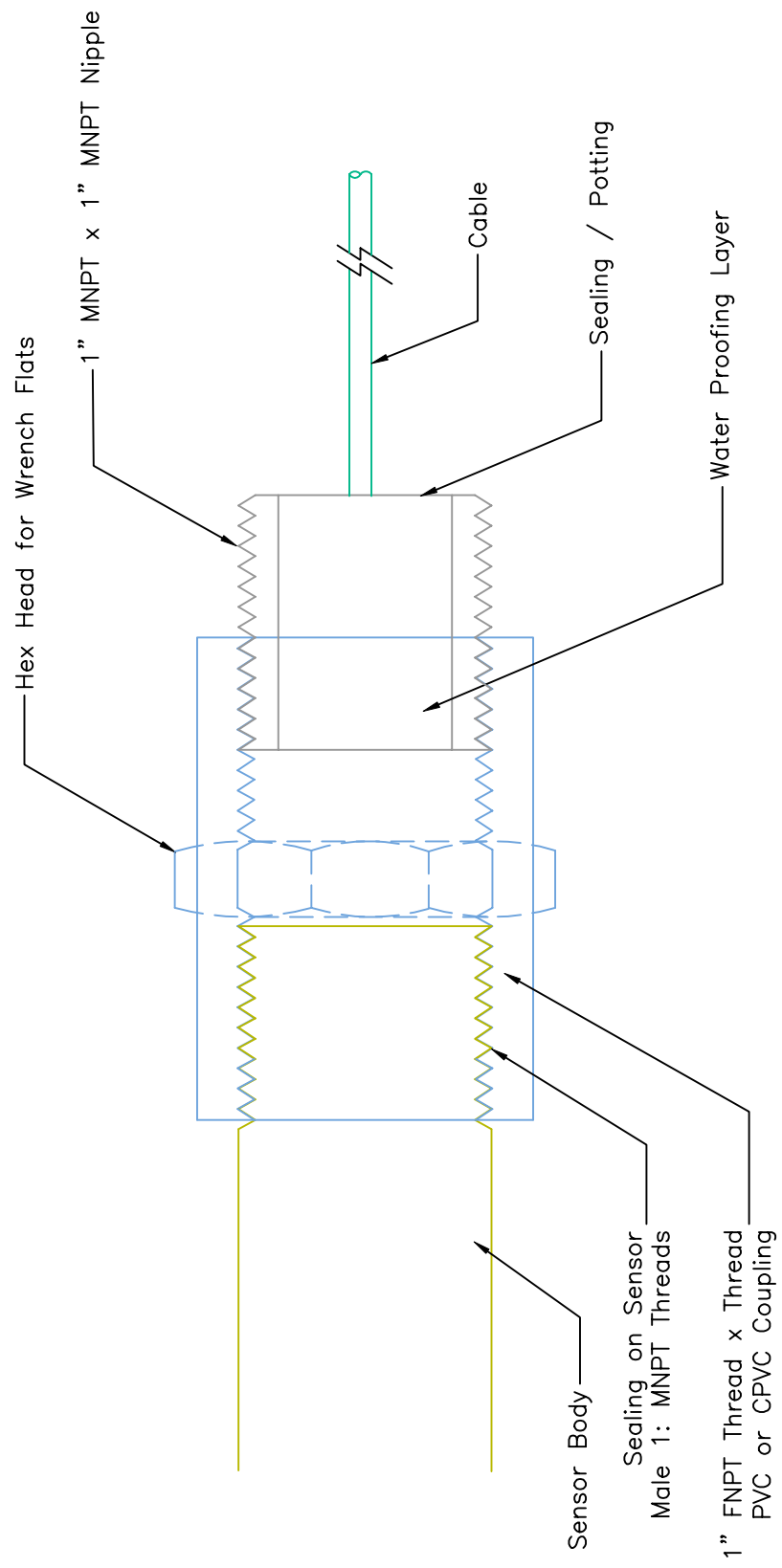
- Complete isolation of back end threaded fitting from liquid process and good protection of cable from corrosion and chemical attack
- Rear threading is identical to that specified on original sensor specifications prior to application of Waterproofing "A" Option
- Hex Head for wrench flats enable easy installations into fixtures
- Not recommended for extremely corrosive installations or installations which do not utilize any kind of guide rod or conduit
- Recommended primarily for elongating sensor life where attack of liquid from back end causes death to sensor prior to chemical or physical attack through front of probe
- *For Applications requiring Waterproofing Assemblies to be suited for solvent extraction (kerosene and other heavy hydrocarbons) or solvents/organic media containing solutions; Change Waterproofing Description from Waterproofing "A" to "D"*
- *For Applications Requiring Waterproofing Assemblies to be constructed of only CPVC (for strong oxidative or reducing solutions - i.e. chlorine, chlorine dioxide, strong hydrogen peroxide or ozone solutions... etc.); Change Waterproofing part description from Waterproofing "A" to "G"*
- *For Applications requiring Waterproofing Assemblies to be suited for both solvent extraction (kerosene and other heavy hydrocarbons) or solvents/organic media containing solutions and to be constructed of only CPVC (for strong oxidative or reducing solutions - i.e. chlorine, chlorine dioxide, strong hydrogen peroxide or ozone solution... etc.); Change Waterproofing Description from Waterproofing "A" to "J"*



Waterproofings after "use" in Process

4 3 2 1

WATERPROOFING "A" SERIES



REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
2	1			



Advanced Sensor Technologies, Inc.
WATERPROOFING
"A" SERIES

SIZE	FSDM NO.	DWG NO.	ASTI-011SA.DWG	REV	1
ASSEMBLY	DRAWN BY:		PETE CSISZAR	SCALE	NONE
			DATE:	DEC. 31, 2000	SHEET 1 OF 1

4 3 2 1

Waterproofing Style "B" Series

Suitable For the Most Aggressive Agitated Slurry Solutions and Corrosive Liquids - Installations without guide rod or conduit - Direct Insertion into volatile tank - COMPLETE CABLE ISOLATION WITH VINYL TUBING

Option Available For:

- 3/4" MNPT Rear Threaded Immersion Sensors (2X12, 6X11, 6X12, 6X13, 6X32 & 6X42 Series Sensors)
- 1" MNPT Rear Threaded Immersion Sensors (6X31, 6X41, 6X51, 6X52 Series Sensors)
- 1" MNPT Read Threaded Twist Lock Sensors w/ guard added to front end (8X31, 8X41, 8X51, 8X52 Sensor Series)
- 1 1/4" MNPT Read Threaded Immersion Sensors - AB 6100 Fluoride Sensors and special orders sensors with 1 1/4" MNPT Threads

Features & Recommended Applications:

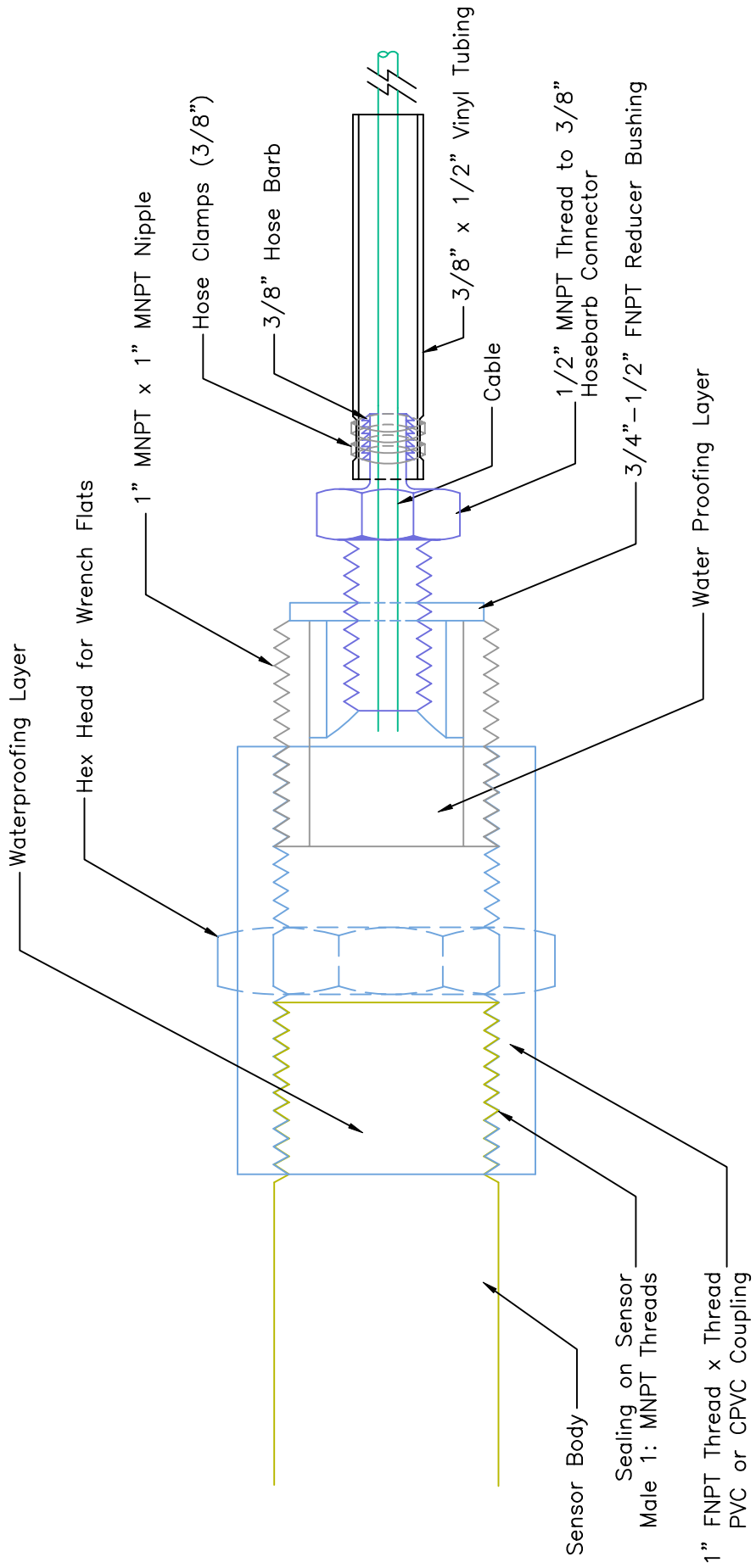
- Complete isolation of back end threaded fitting from liquid process and good protection of cable from corrosion and chemical attack
- Major Rear threading is identical to that specified on original sensor specifications prior to application of Waterproofing "B" Option
- Hex Head for wrench flats enable easy installations into fixtures
- Recommended for extremely corrosive installations or installations which do not utilize any kind of guide rod or conduit, or extremely slurry/viscous solutions which can abraid cable assemblies
- Elongate sensor life where attack of liquid from back end causes death to sensor prior to chemical or physical attack through front of probe
- *For Applications requiring Waterproofing Assemblies to be suited for solvent extraction (kerosene and other heavy hydrocarbons) or solvents/organic media containing solutions; Change Waterproofing Description from Waterproofing "B" to "E"*
- *For Applications Requiring Waterproofing Assemblies to be constructed of only CPVC (for strong oxidative or reducing solutions - i.e. chlorine, chlorine dioxide, strong hydrogen peroxide or ozone solutions... etc.); Change Waterproofing part description from Waterproofing "B" to "H"*
- *For Applications requiring Waterproofing Assemblies to be suited for both solvent extraction (kerosene and other heavy hydrocarbons) or solvents/organic media containing solutions and to be constructed of only CPVC (for strong oxidative or reducing solutions - i.e. chlorine, chlorine dioxide, strong hydrogen peroxide or ozone solution... etc.); Change Waterproofing Description from Waterproofing "C" to "K"*



Waterproofing "B" Assembly

4 3 2 1

WATERPROOFING "B" SERIES



REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
2	1			



Advanced Sensor Technologies, Inc.
WATERPROOFING
"B" SERIES

ASSEMBLY	SIZE	FSUM NO.	DWG NO.	REV
ASSEMBLY	2		ASTI-012SA.DWG	1
DRAWN BY: PETE CSISZAR	SCALE: NONE	DATE: DEC. 31, 2000	SHEET 1 OF 1	

4 3 2 1

Waterproofing Style "C" Series

For the Most Aggressive Agitated Slurry Solutions and Corrosive Liquids - Installations without guide rod or conduit - Direct Insertion into volatile tank -

Recommended for similar Installations as Waterproofing Style "B" - Lacks the complete Cable Isolation offered by "B" Style

Option Available For:

- 3/4" MNPT Rear Threaded Immersion Sensors (2X12, 6X11, 6X12, 6X13, 6X32 & 6X42 Series Sensors)
- 1" MNPT Rear Threaded Immersion Sensors (6X31, 6X41, 6X51, 6X52 Series Sensors)
- 1" MNPT Read Threaded Twist Lock Sensors w/ guard added to front end (8X31, 8X41, 8X51, 8X52 Sensor Series)
- 1 1/4" MNPT Read Threaded Immersion Sensors - AB 6100 Fluoride Sensors and other special orders sensors with 1 1/4" MNPT Rear Threadings

Features & Recommended Applications:

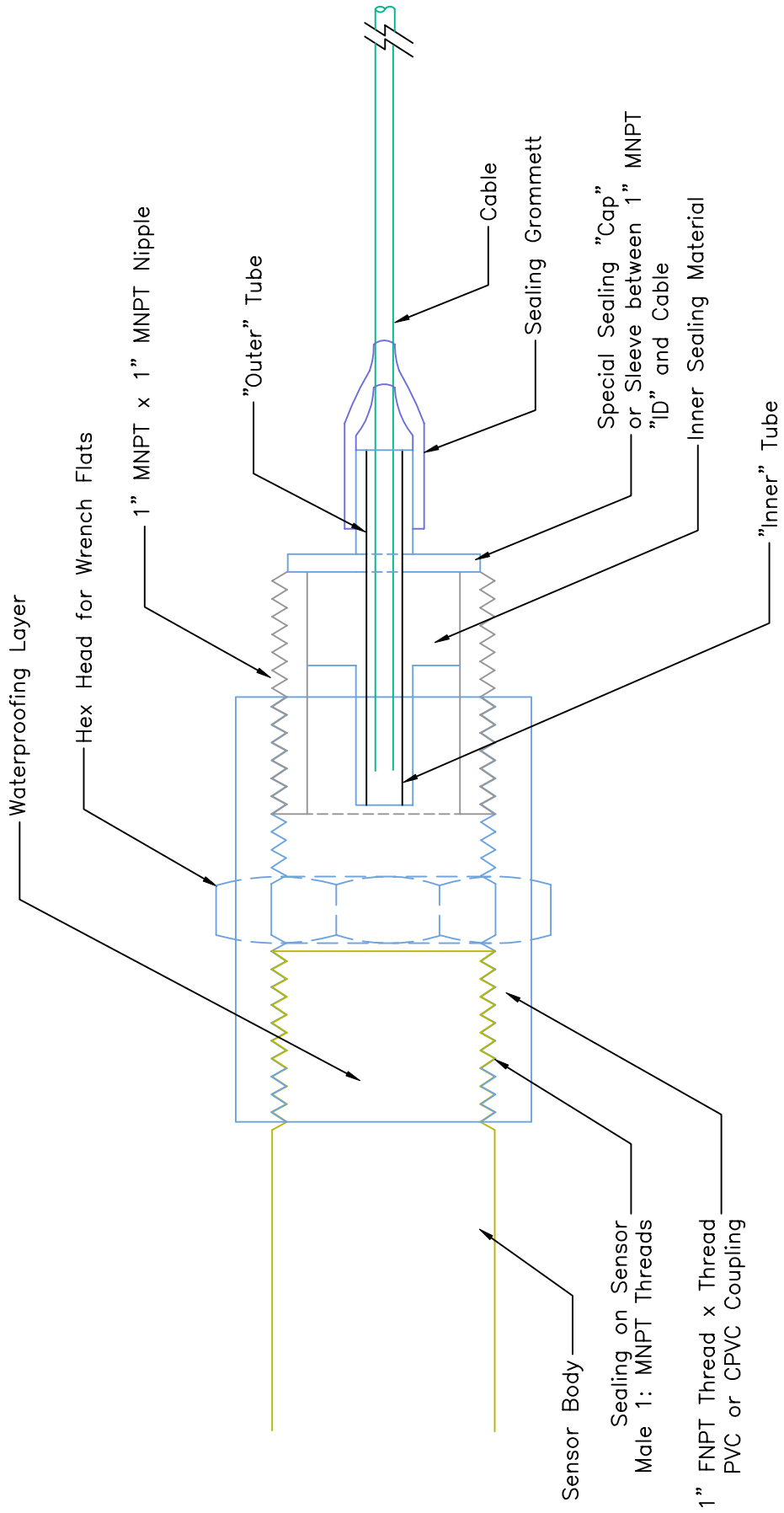
- Complete isolation of back end threaded fitting from liquid process and good protection of cable from corrosion and chemical attack
- Rear threading is identical to that specified on original sensor specifications prior to application of Waterproofing "C" Option
- Hex Head for wrench flats enable easy installations into fixtures
- Not Recommended for extremely installations which do not utilizes any kind of guide rod or conduit
- Recommended for extremely corrosive and/or slurry, viscous or high-speed process solutions which can abraid cable assemblies
- Recommended primarily for elongating sensor life where attack of liquid from back end causes death to sensor prior to chemical or physical attack through front of probe
- *For Applications requiring Waterproofing Assemblies to be suited for solvent extraction (kerosene and other heavy hydrocarbons) or solvents/organic media containing solutions; Change Waterproofing Description from Waterproofing "C" to "F"*
- *For Applications Requiring Waterproofing Assemblies to be constructed of only CPVC (for strong oxidative or reducing solutions - i.e. chlorine, chlorine dioxide, strong hydrogen peroxide or ozone solutions... etc.); Change Waterproofing part description from Waterproofing "C" to "I"*
- *For Applications requiring Waterproofing Assemblies to be suited for both solvent extraction (kerosene and other heavy hydrocarbons) or solvents/organic media containing solutions and to be constructed of only CPVC (for strong oxidative or reducing solutions - i.e. chlorine, chlorine dioxide, strong hydrogen peroxide or ozone solution... etc.); Change Waterproofing Description from Waterproofing "C" to "L"*




Waterproofing "C" Assembly

4 3 2 1

WATERPROOFING "C" SERIES



REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
2	1			

		ASTI Advanced Sensor Technologies, Inc.	
WATERPROOFING "C" SERIES			
ASSEMBLY	SIZE	DWG NO.	REV
ASSEMBLY	2	ASTI-0185A.DWG	1
DRAWN BY: PETE CSISZAR	SCALE: NONE	DATE: DEC. 31, 2000	SHEET 1 OF 1

BLACK&BAIRD LTD 8/5/99

Waterproofing Style "IT" Series

Suitable For Most Applications and the Most Economical and Cost Effective of our Waterproofing Options

Option Available For:

- 3/4" MNPT Rear Threaded Immersion Sensors (2X12, 6X11, 6X12, 6X13, 6X32 & 6X42 Series Sensors)
- 1" MNPT Rear Threaded Immersion Sensors (6X31, 6X41, 6X51, 6X52 Series Sensors)
- 1" MNPT Rear Threaded Twist Lock Sensors w/ guard added to front end (8X31, 8X41, 8X51, 8X52 Sensor Series)

Features & Recommended Applications:

- Complete isolation of back end threaded fitting from liquid process and good protection of cable from corrosion and chemical attack
- Major Rear threading is identical to that specified on original sensor specifications prior to application of Waterproofing "IT" Option
- Suitable For Applications and the Most Economical and Cost Effective of our Waterproofing Options
- Recommended primarily for elongating sensor life where attack of liquid from back end causes death to sensor (typically by corrosion along cable)



**Waterproofings after "use"
in Process**

Advanced Sensor Technologies, Inc.

603 North Poplar Street, Orange, California 92868-1011 USA

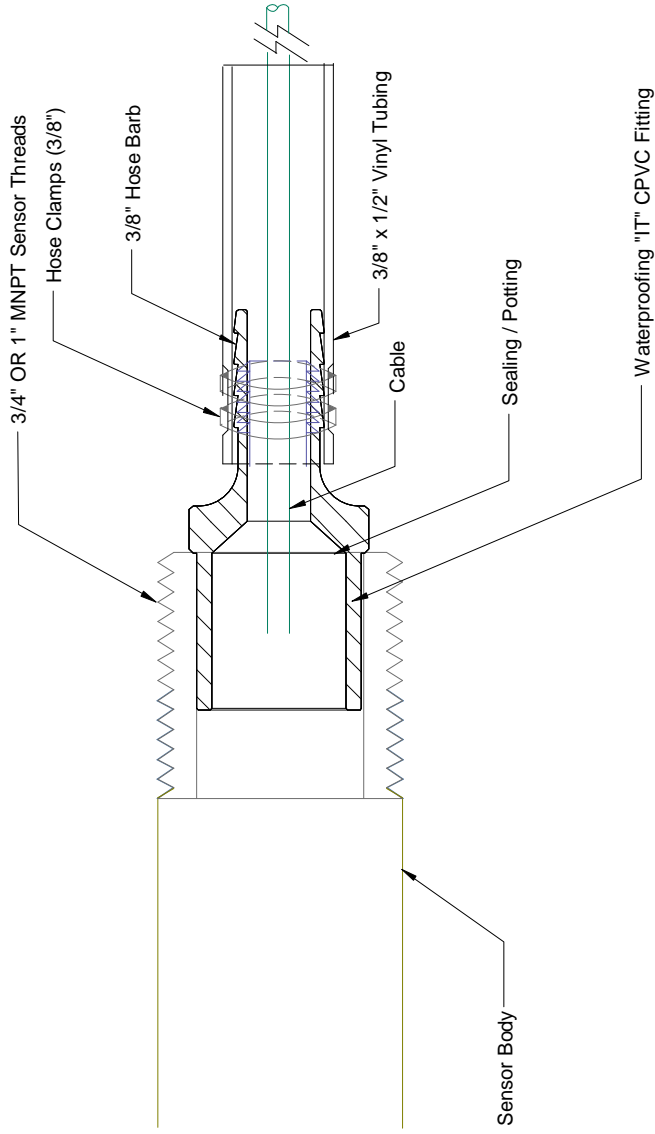
Tel: + (1) 714-978-2837 Toll-Free: + (1) 888-969-2784 Fax: + (1) 714-978-6339 Website:

<http://www.astisensor.com>

- *Manufacturing Long-Lasting Industrial pH Sensors, ORP sensors, Ion Selective Sensors & Conductivity Sensors for Difficult Inline Process Control Measurement and Monitoring Applications*
- *Supplying Research Grade pH Electrodes, ORP Electrodes, Ion Selective Electrodes and Conductivity Electrodes for Laboratory Testing*
- *Offering industry leading product developments and research services for OEM manufacturers and resellers requiring pH, ORP and Ion Selective Measurements for Medical In-Vitro and In-Vivo Applications and Industrial Inline, Immersion and Submersible Measurements*

4 3 2 1

WATERPROOFING "IT" SERIES



REVISIONS			
ZONE	REV	DESCRIPTION	DATE
	1		

		ASTI Advanced Sensor Technologies, Inc.	
		WATERPROOFING "IT" SERIES	
ASSEMBLY	SIZE	FORMING	DATE
DRAWN BY: PETE CSISZAR	NONE	FEB 6, 2010	1 OF 1

D C B A

1 2 3 4