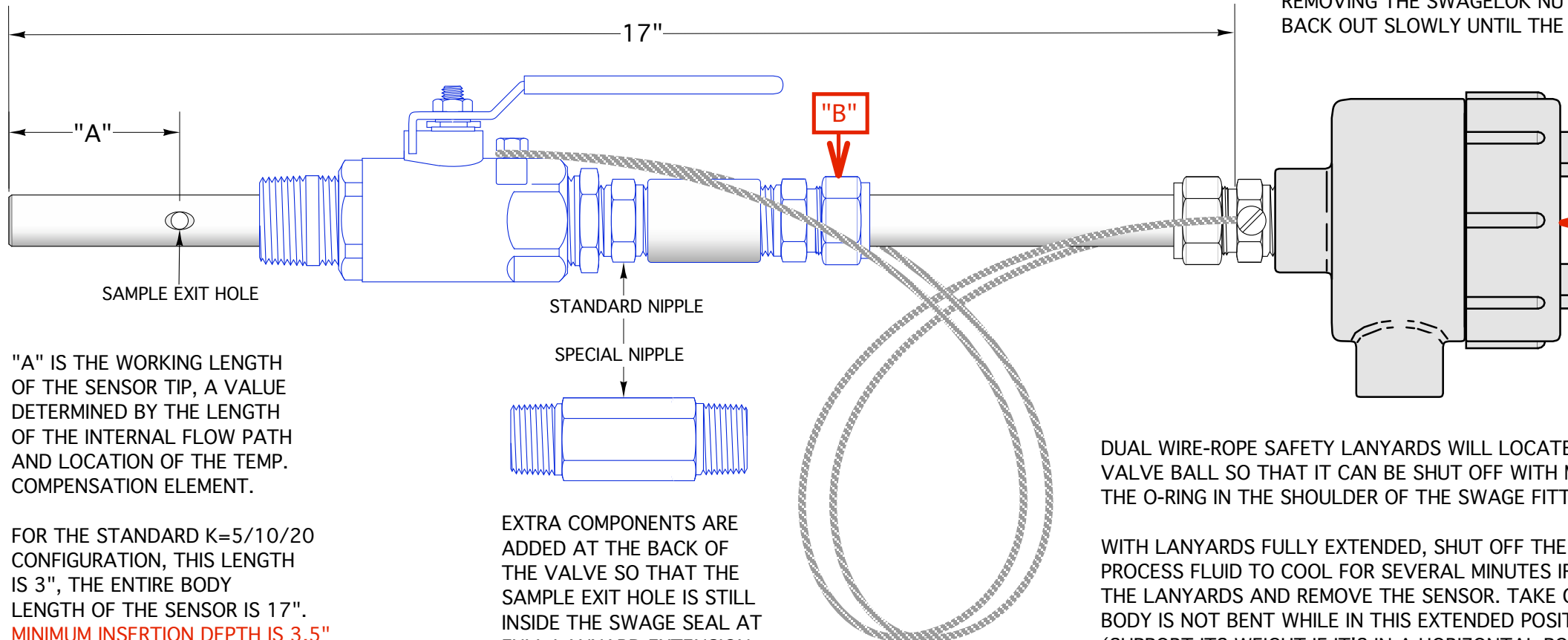


1

2

3

REVISION HISTORY			
REV	DESCRIPTION	DATE	APPROVED



TO REMOVE THE SENSOR, PRESS IN FIRMLY ON THE J-BOX LID WHILE REMOVING THE SWAGELOK NUT "B", AND ALLOW THE SENSOR TO BACK OUT SLOWLY UNTIL THE LANYARDS ARE STRETCHED TIGHT.

PRESS IN AND HOLD FIRMLY WHILE LOOSENING SWAGE NUT "B" AND DO NOT ALLOW THE SENSOR TO SNAP BACK ON THE LANYARDS. LET THE PROCESS PRESSURE BRING IT BACK SLOWLY AGAINST YOUR CONTINUOUS PUSH.

A

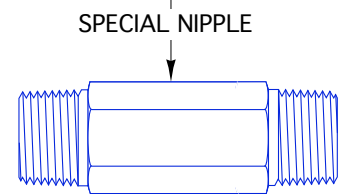
A

"A" IS THE WORKING LENGTH OF THE SENSOR TIP, A VALUE DETERMINED BY THE LENGTH OF THE INTERNAL FLOW PATH AND LOCATION OF THE TEMP. COMPENSATION ELEMENT.

FOR THE STANDARD K=5/10/20 CONFIGURATION, THIS LENGTH IS 3", THE ENTIRE BODY LENGTH OF THE SENSOR IS 17". **MINIMUM INSERTION DEPTH IS 3.5" AND MAXIMUM IS 8".**

FOR THE SPECIAL LARGE BORE K=10.0 THE WORKING LENGTH "A" INCREASES TO 8".

MINMUM INSERTION DEPTH OF THE SENSOR IS .5" LONGER THAN THE WORKING LENGTH IN ORDER TO ENSURE THAT THE ATC ELEMENT IS FULLY SUBMERGED.



EXTRA COMPONENTS ARE ADDED AT THE BACK OF THE VALVE SO THAT THE SAMPLE EXIT HOLE IS STILL INSIDE THE SWAGE SEAL AT FULL LANYARD EXTENSION TO PREVENT LEAKAGE DURING REMOVAL.

FOR LONGER SENSOR TIP WORKING LENGTHS, CHANGE THE LENGTH OF NIPPLE, LANYARDS, AND SENSOR BODY BY THE WORKING LENGTH BEYOND THE STANDARD 3".

FOR GREATER INSERTION DEPTHS ONLY, INCREASE THE LENGTH OF LANYARDS AND SENSOR BODY AND DO NOT CHANGE THE NIPPLE

DUAL WIRE-ROPE SAFETY LANYARDS WILL LOCATE THE SENSOR TIP JUST PAST THE VALVE BALL SO THAT IT CAN BE SHUT OFF WITH MINIMAL PROCESS LEAKAGE PAST THE O-RING IN THE SHOULDER OF THE SWAGE FITTING.

WITH LANYARDS FULLY EXTENDED, SHUT OFF THE VALVE AND ALLOW THE TRAPPED PROCESS FLUID TO COOL FOR SEVERAL MINUTES IF NECESSARY. THEN DISCONNECT THE LANYARDS AND REMOVE THE SENSOR. TAKE CARE THAT THE EXTENDED SENSOR BODY IS NOT BENT WHILE IN THIS EXTENDED POSITION AND BEING HELD BY ITS TIP (SUPPORT ITS WEIGHT IF IT'S IN A HORIZONTAL POSITION).

INSPECT O-RING IN SWAGE SHOULDER, AND IF VENT HOLE HAS NICKED IT ON REMOVAL, REPLACE IT BEFORE REINSTALLING SENSOR (PARKER #2-018). A LIGHT COAT OF SILICONE O-RING GREASE ON A CLEAN SENSOR BODY WILL EASE REINSTALLATION. AVOID APPLYING GREASE ON THE SENSOR TIP AROUND AND BEYOND THE VENT HOLE IN THE "A" LENGTH.

B

B

TOLERANCES	
1 Place: ± .X	3 Places: ± .XXX
2 Places: ± .XX	4 Places: ± .XXXX
Angular: ± .XX(U+02DA)	

**ASTI** Advanced Sensor Technologies, Inc.  
Orange, California USA  
Phone: 714-978-2837

TITLE  
**AST40-5.0/10.0/20.0 CONFIGURATION WITH NOTES ON EXTENDED WORKING LENGTH TIPS**

DRAWING NO. **AST40-10.0-ID-101** REVISION / SIZE **B**

SCALE **x 0.5** FILE NAME **AST40 OMD AND REMOVAL**

1

2

3