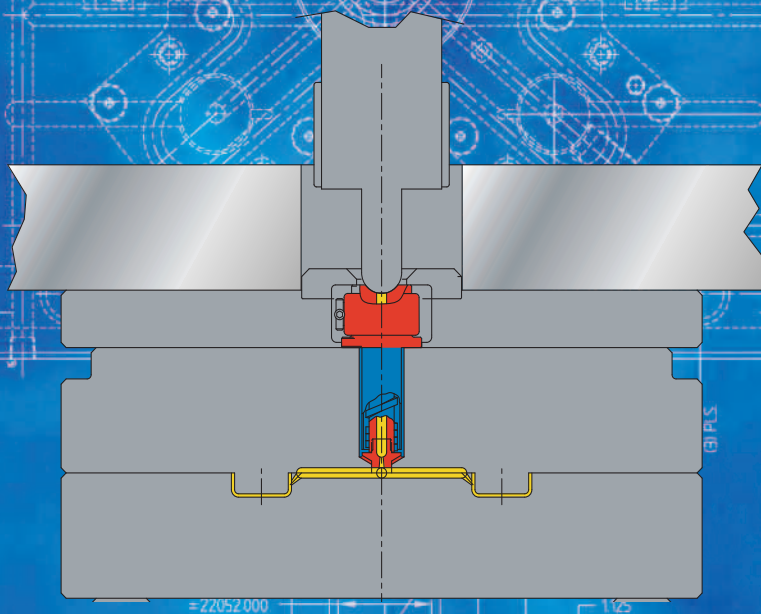


# OSCO<sup>®</sup> inc.

RUNNERLESS MOLDING SYSTEMS

## Hot Sprue Nozzles



**Successfully running the toughest resins**

- LCP / PEEK / AMODEL  
NYLON / TORLON  
MIM / ULTEM

## Where Innovation Flows



Proudly Made in the USA



Hot Sprue Nozzles



**LOSE THE  
SPRUE**



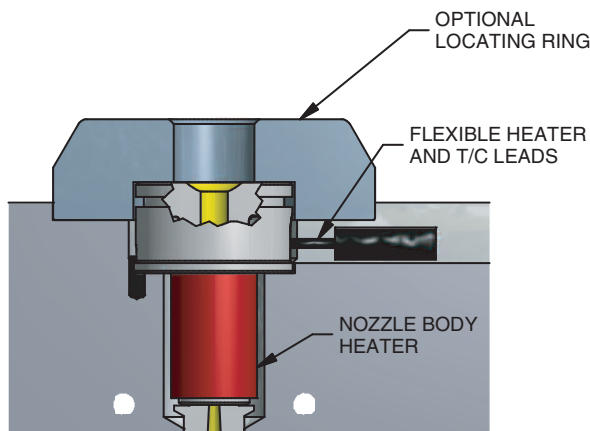
# INDEX

## *Hot Sprue Nozzles*

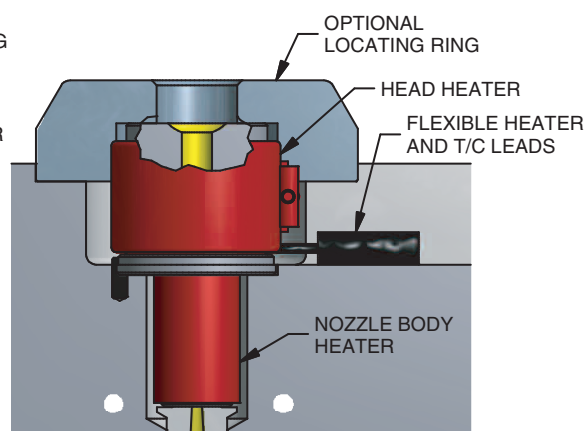
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# Hot Sprue Nozzle - (HSN)

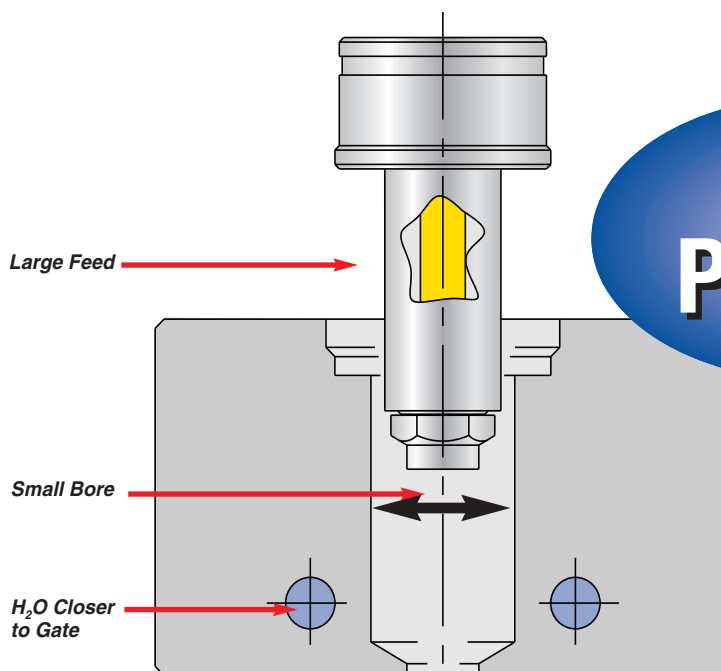


**"G" Style / Single Zone**  
For General Purpose Resin (<530°)



**"H" Style / Dual Zone**  
For High Heat Resin (>530°)

## Anatomy of a Better Drop



**Low  
Profile**

T/C

**Temperature Control  
at the Gate**

**Faster  
Cycle  
Times**

**Replaces  
Cold Sprue  
Bushings**

**For Use With  
General Purpose  
or High Heat  
Resins**

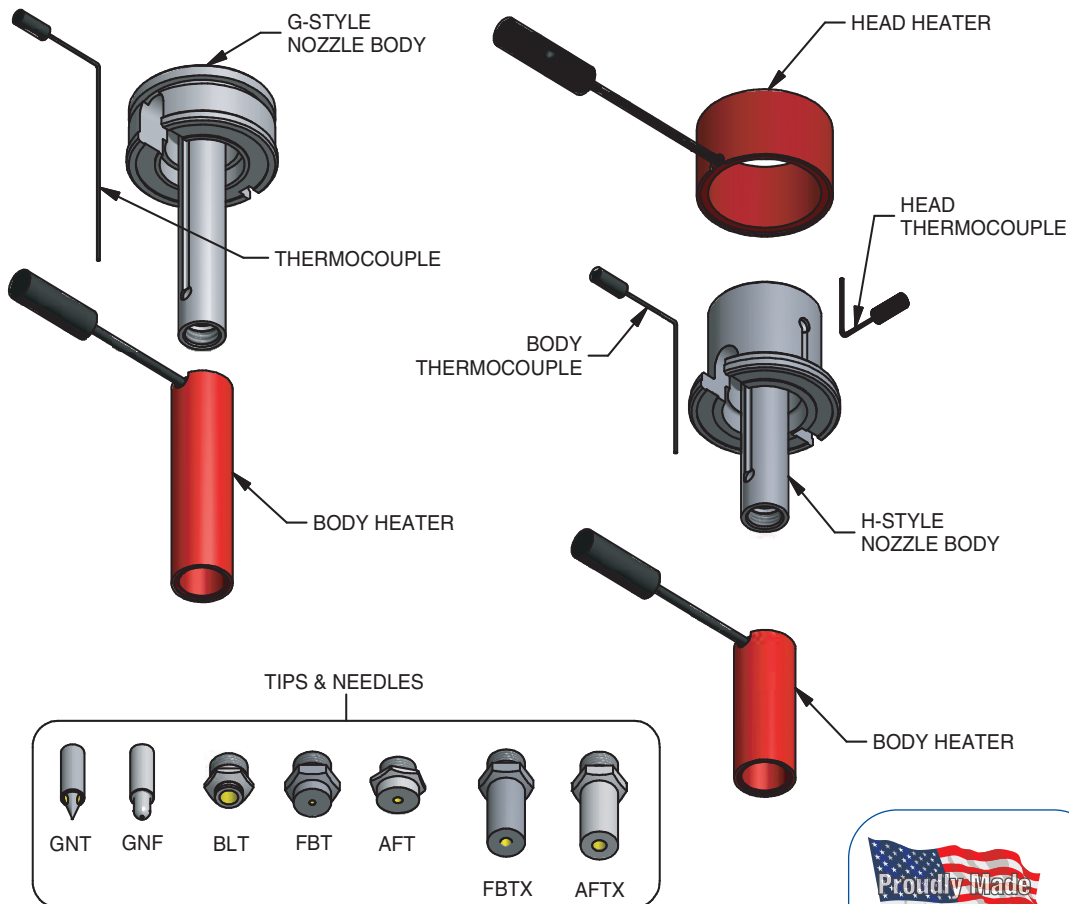
# Design Versatility



- Large to Small
- 3-Plate Applications
- Custom Applications

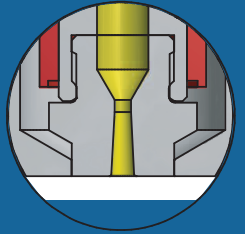


## Field Serviceable

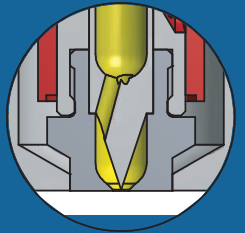


**STANDARD  
COMPONENTS  
IN STOCK**

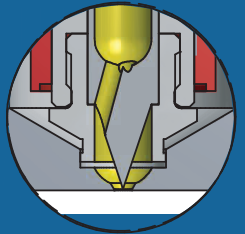
### Tip Styles



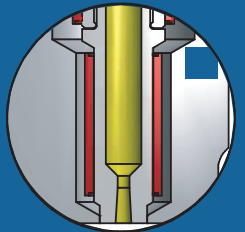
### Absolute Flow



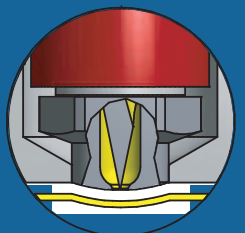
### Full Body



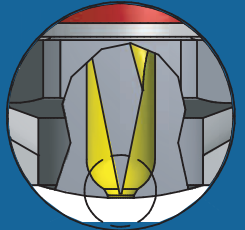
### Body Less



### LPT - Low Profile



### RGT - Recessed Gate

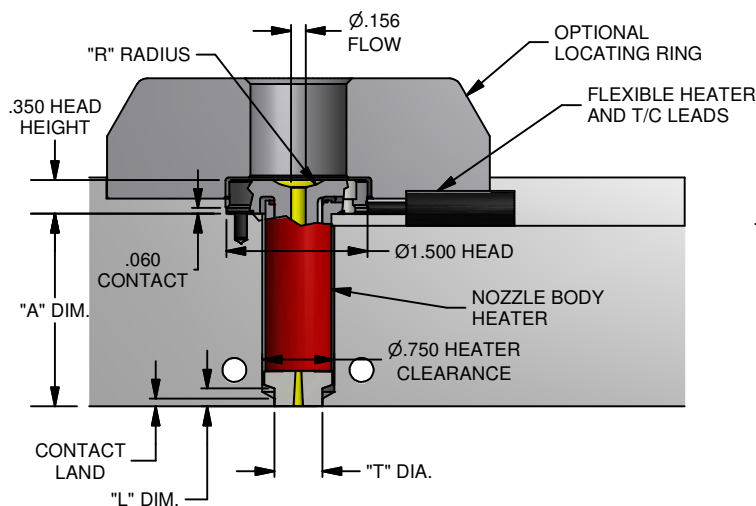




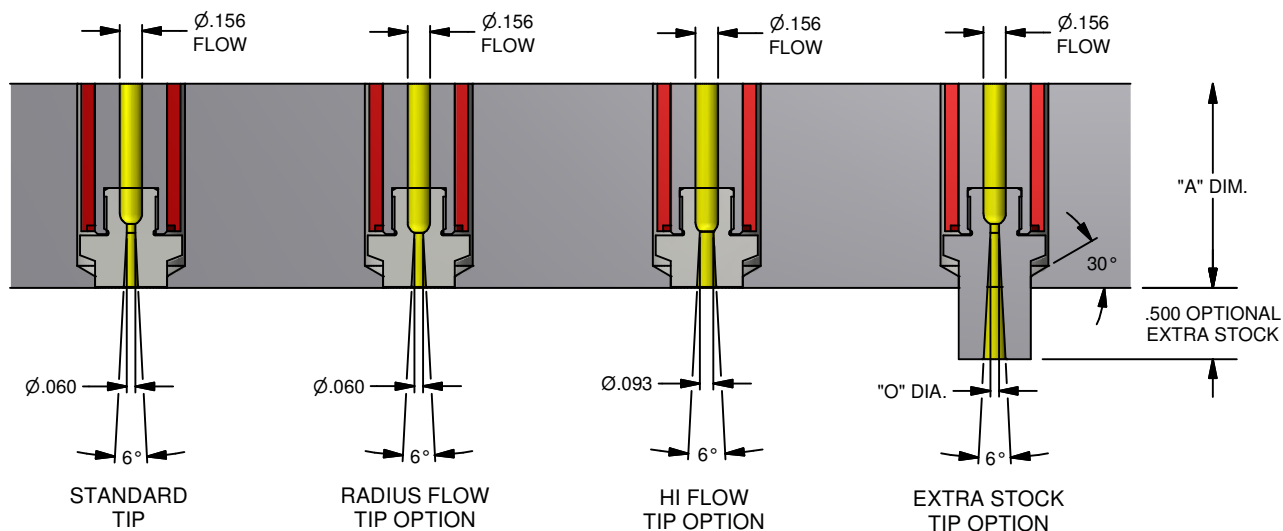
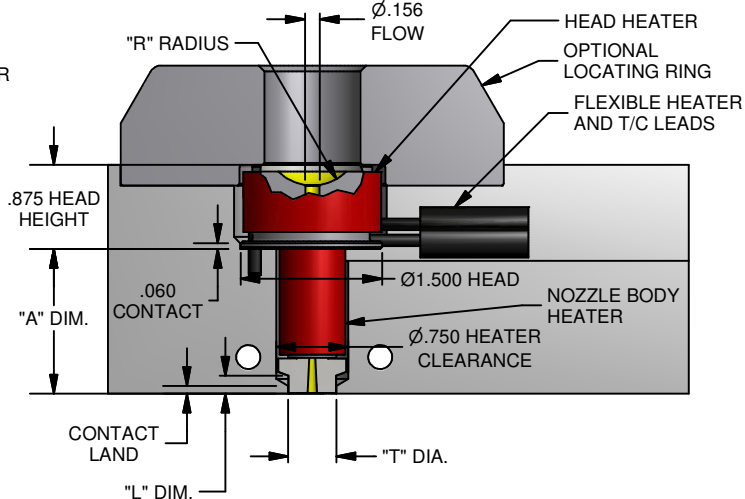
# AFS-20-G/H HSN

The "AFS" Absolute Flow Style HSN - 20 Series Hot Sprue Nozzle utilizes a  $\varnothing.156$  resin feed. The **"G" Style Nozzle** is engineered for general purpose resins and the **"H" Style Nozzle** is engineered for the toughest High Heat / Heat Sensitive Resins.

**"G" STYLE**  
For Processing Temps (<500°F)



**"H" STYLE**  
For Processing Temps (>500°F)



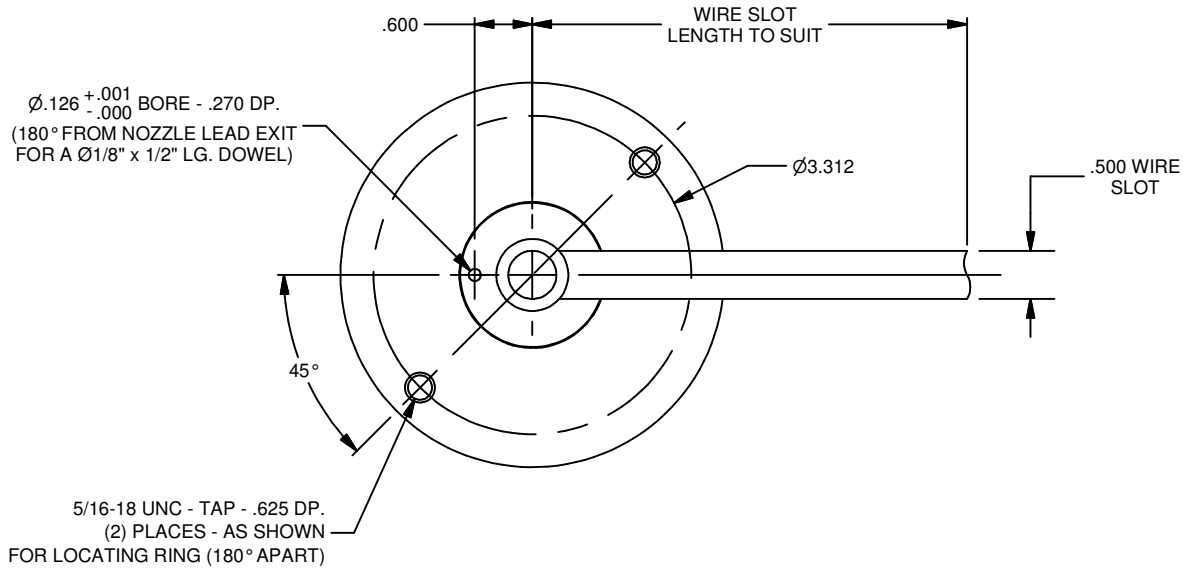
## THERMAL EXPANSION NOTE

"AA" DIM. = "A" DIM. + THERMAL EXPANSION  
EXPANSION = "A" DIM. X .00000633 X (PROCESSING TEMP. - 68°F)

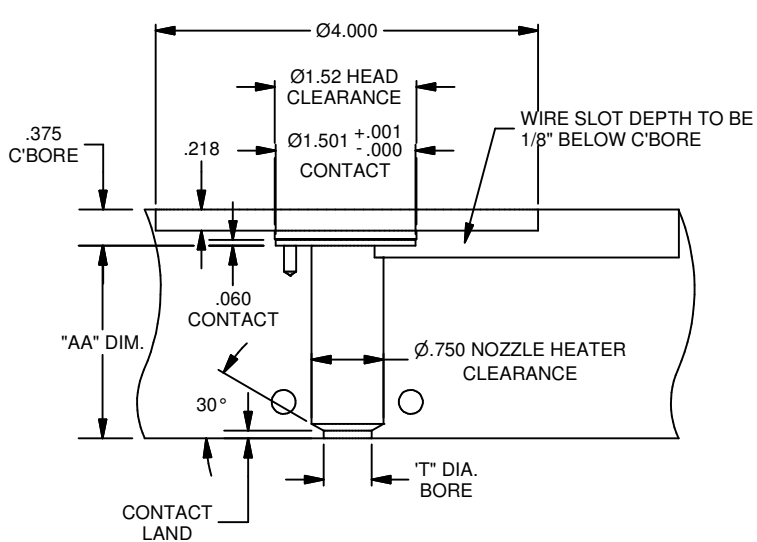
NOZZLE TYPE	"A" DIM.	STYLE	"T" TIP	"L" LAND	"O" GATE	"R" RADIUS
<b>A F S 0 2</b>	<input type="text"/> <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/> <input type="text"/>	<input type="text"/>
<b>HOW TO ORDER:</b> Specify dimensions by completing the following chart. <b>Call:</b> <b>1-800-499-OSCO</b>	1.500" = 15 2.000" = 20 2.500" = 25 3.000" = 30	G = Style H = Style	3 = Ø.375 5 = Ø.500 7 = Ø.750	Std. = S Extra Stock = X	06 = Ø.060 09 = Ø.093	1/2 = 5 3/4 = 7
				<input type="text"/>		Specify resin to be processed.

NOTE: For sizes other than shown, please contact Osco Tech Service.

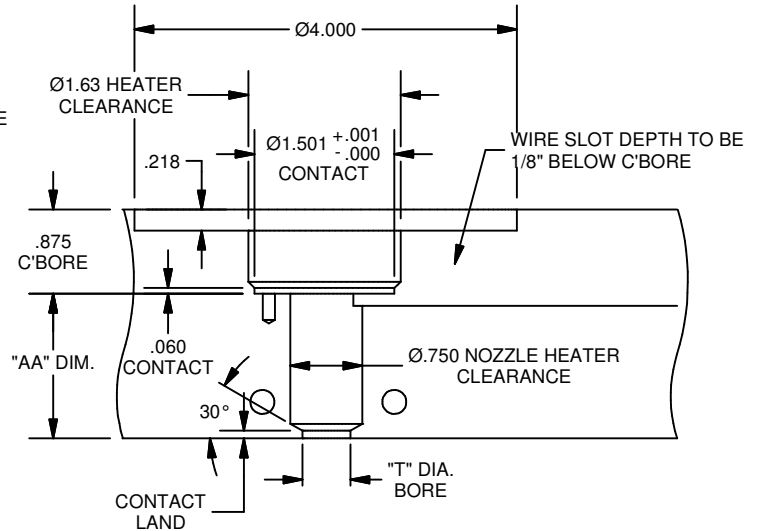
# AFS-20-G/H BORING



## "G" STYLE BORING INFORMATION



## "H" STYLE BORING INFORMATION



### THERMAL EXPANSION NOTE

"AA" DIM. = "A" DIM. + THERMAL EXPANSION

EXPANSION = "A" DIM. X .00000633 X (PROCESSING TEMP. - 68 °F)

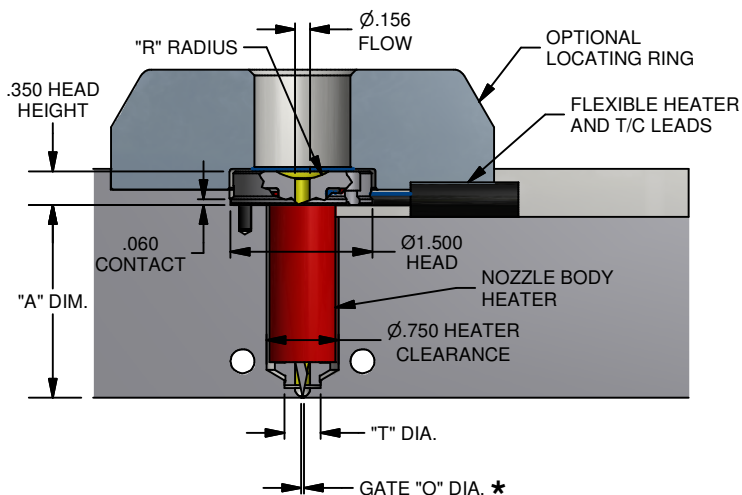
TIP INFORMATION		BORING INFORMATION	
"T" DIA.	"L" DIM.	"T" DIA. $^{+.0005}_{-.0000}$ BORE	CONTACT LAND
.375	.182	.3755	.060
.500	.182	.5005	.080
.750	.182	.7505	.080

\* Note: The information given here should be used as a guide. A variation in growth of any nozzle from the formulation is possible due to cooling conditions or mold configuration. It is advisable to allow a margin of safety. For some very critical applications, an empirical factor may have to be obtained.

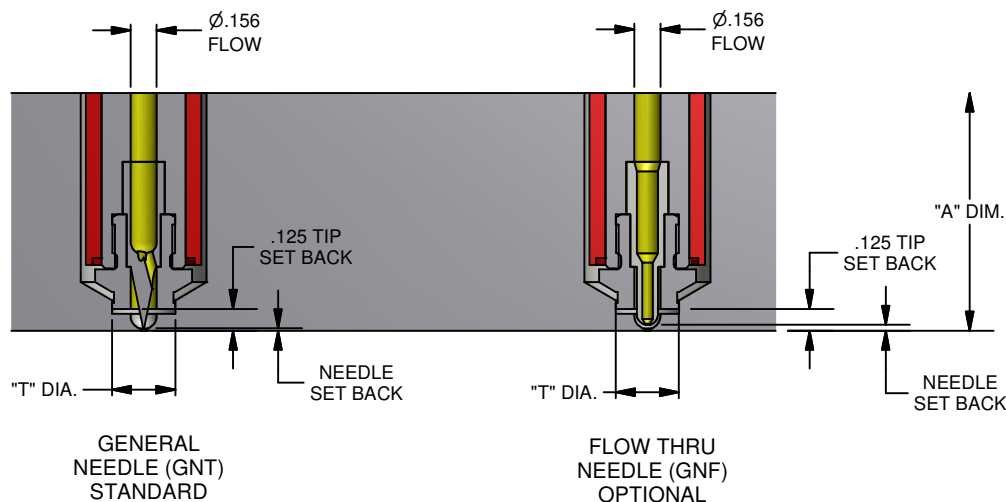
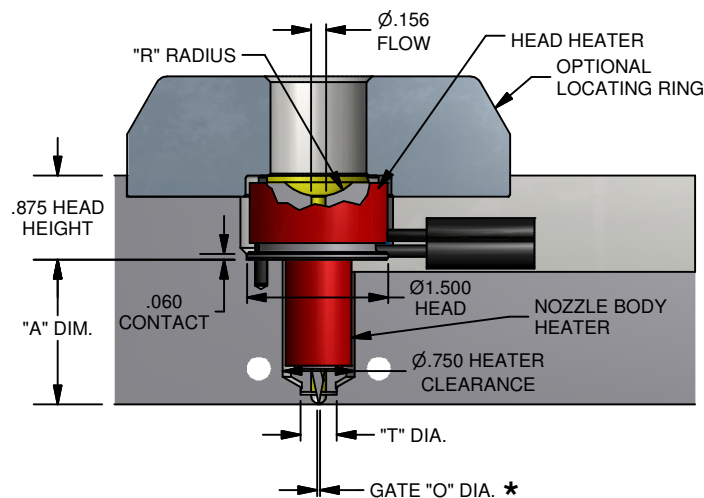
# BLS-20-G/H HSN

The "BLS" Body Less Style HSN - 20 Series Hot Sprue Nozzle utilizes a  $\varnothing.156$  resin feed. The **"G" Style Nozzle** is engineered for general purpose resins and the **"H" Style Nozzle** is engineered for the toughest High Heat / Heat Sensitive Resins.

**"G" STYLE**  
For Processing Temps (<500°F)



**"H" STYLE**  
For Processing Temps (>500°F)



## THERMAL EXPANSION NOTE

"AA" DIM. = "A" DIM. + THERMAL EXPANSION

EXPANSION = "A" DIM. X .00000633 X (PROCESSING TEMP. - 68°F)

## NOZZLE TYPE

## "A" DIM.

## STYLE

## "O" GATE

## "R" RADIUS

**B** **L** **S** **0** **2**



1.500" = 15  
2.000" = 20  
2.500" = 25  
3.000" = 30



G = Style  
H = Style



Specify "O" \*  
MIN. = .030  
MAX. = .060

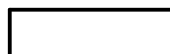


1/2 = 5  
3/4 = 7

**HOW TO ORDER:**  
Specify dimensions  
by completing the  
following chart.

Call:

1-800-499-OSCO

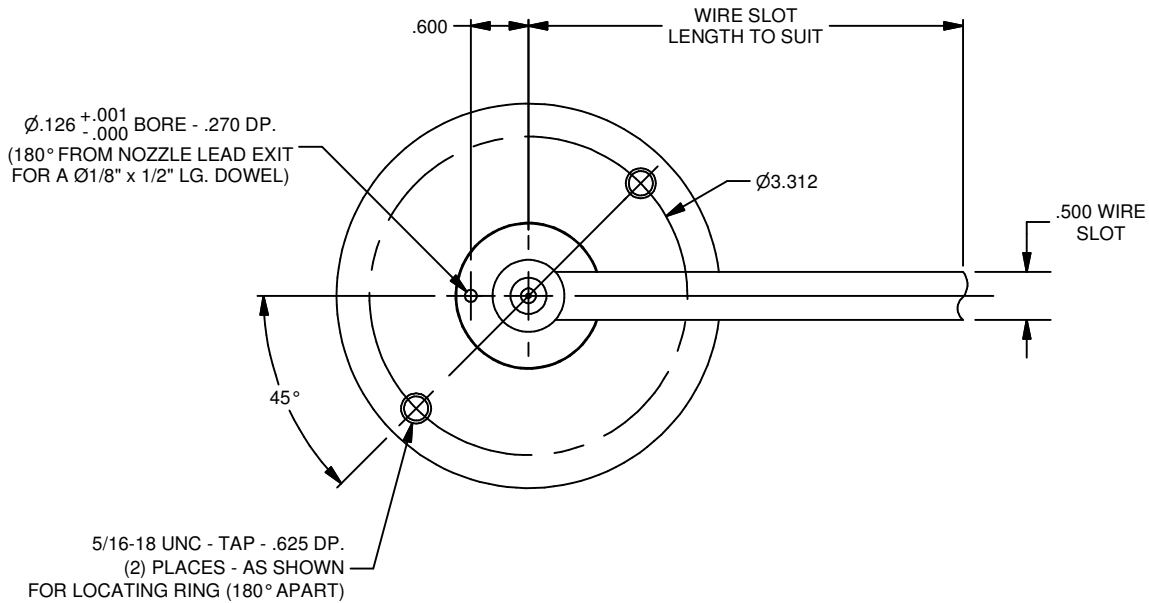


Specify resin to be processed.

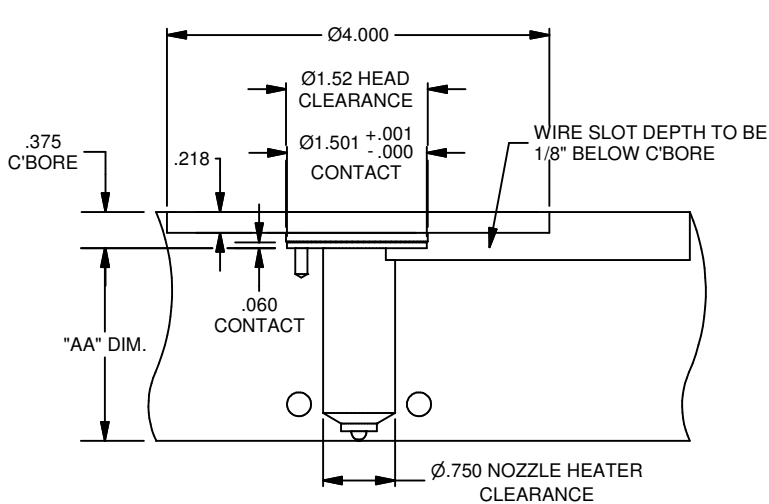
NOTE: For sizes other than shown, please contact Osco Tech Service.



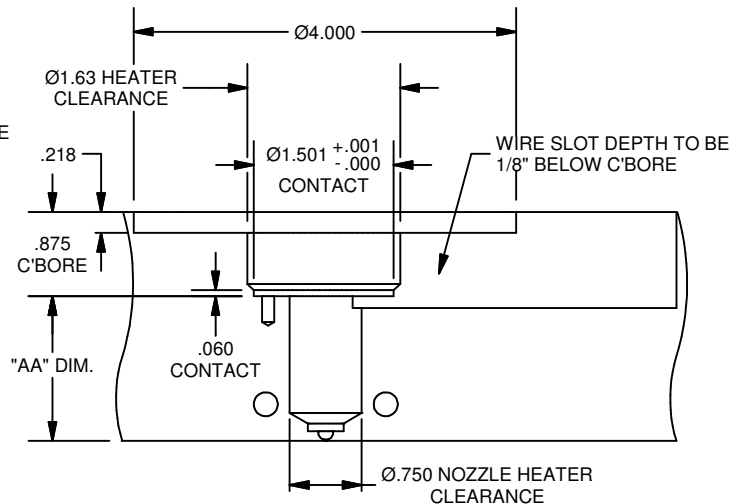
# BLS-20-G/H BORING



## "G" STYLE BORING INFORMATION

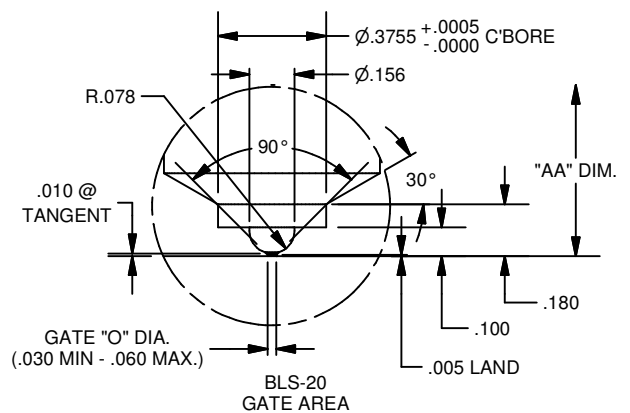


## "H" STYLE BORING INFORMATION



### THERMAL EXPANSION NOTE

"AA" DIM. = "A" DIM. + THERMAL EXPANSION  
EXPANSION = "A" DIM. X .00000633 X (PROCESSING TEMP. - 68°F)  
(DUE TO THE BODY LESS NOZZLE DESIGN, THERMAL EXPANSION  
DOES NOT NEED TO BE CONSIDERED FOR STD. NOZZLE LENGTH)

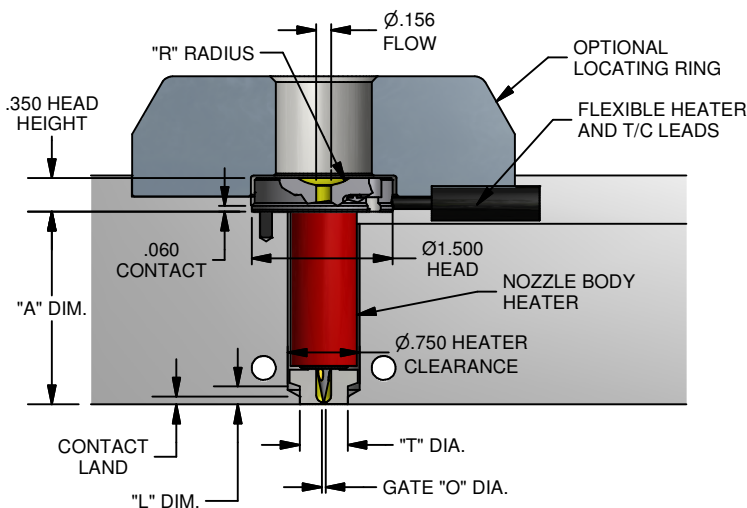


\* Note: The information given here should be used as a guide. A variation in growth of any nozzle from the formulation is possible due to cooling conditions or mold configuration. It is advisable to allow a margin of safety. For some very critical applications, an empirical factor may have to be obtained.

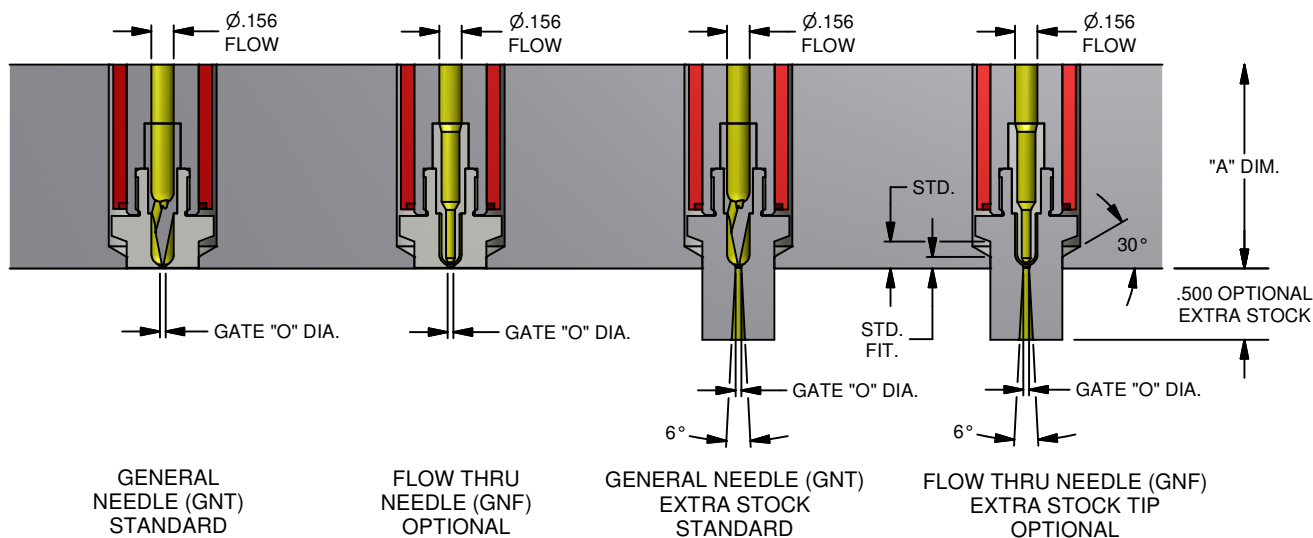
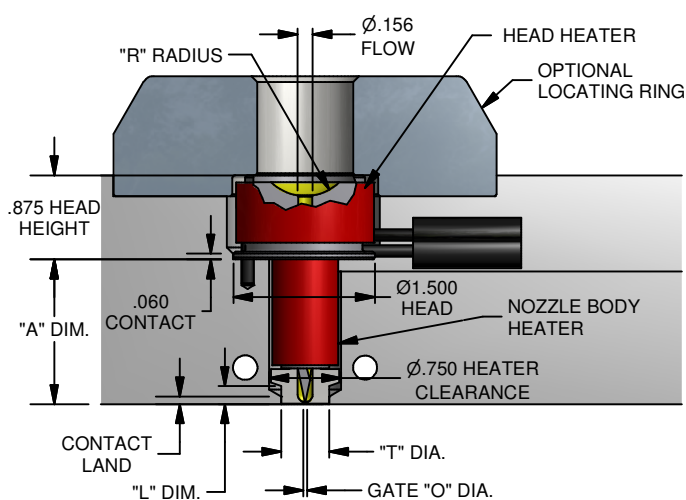
# FBS-20-G/H HSN

The "FBS" Full Body Style HSN - 20 Series Hot Sprue Nozzle utilizes a  $\varnothing.156$  resin bore. The **"G" Style Nozzle** is engineered for general purpose resins and the **"H" Style Nozzle** is engineered for the toughest High Heat / Heat Sensitive Resins.

**"G" STYLE**  
For Processing Temps (<500°F)



**"H" STYLE**  
For Processing Temps (>500°F)

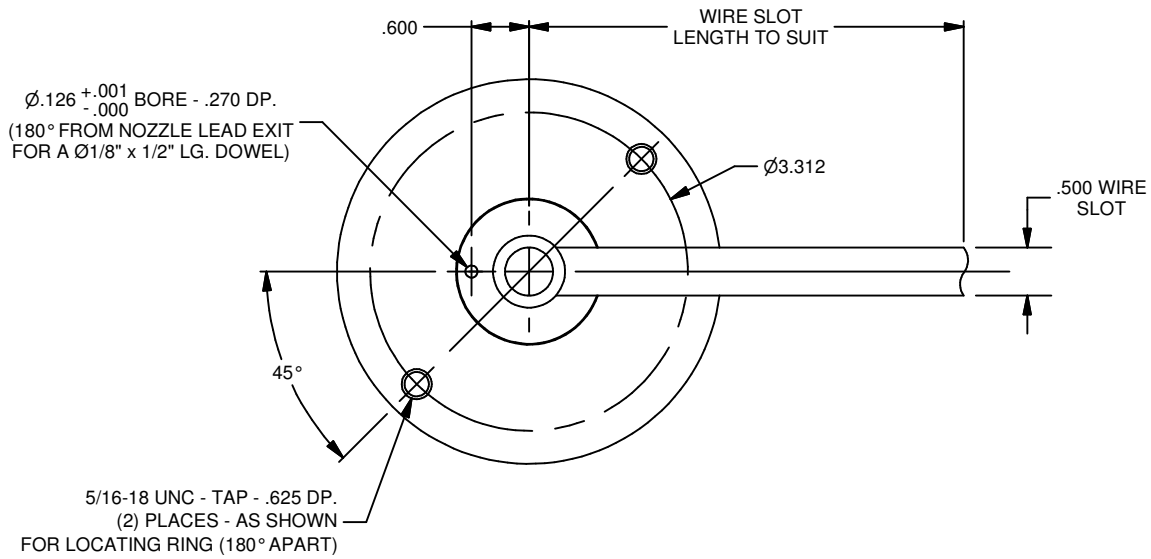


## THERMAL EXPANSION NOTE

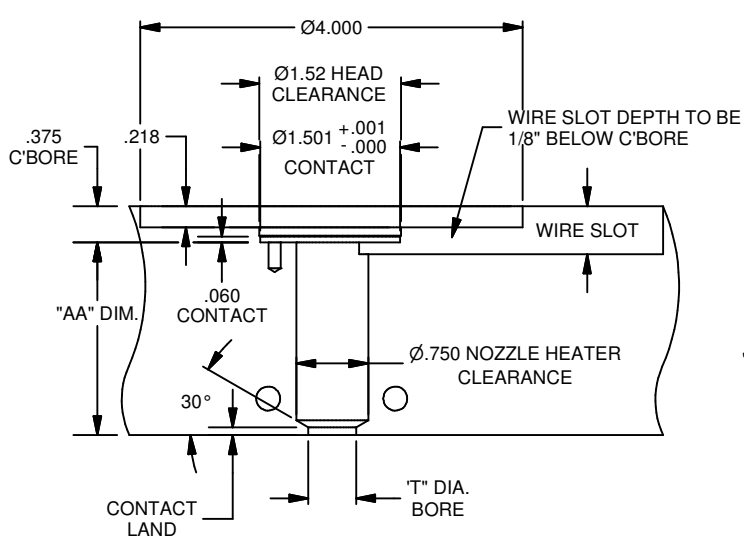
"AA" DIM. = "A" DIM. + THERMAL EXPANSION  
EXPANSION = "A" DIM. X .00000633 X (PROCESSING TEMP. - 68°F)

NOZZLE TYPE	"A" DIM.	STYLE	"T" TIP	"L" LAND	"O" GATE	"R" RADIUS
<b>F B S 0 2</b>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
	1.500" = 15 2.000" = 20 2.500" = 25 3.000" = 30	G = Style H = Style	3 = $\varnothing.375$ 5 = $\varnothing.500$ 7 = $\varnothing.750$	Std. = S Extra Stock = X	04 = $\varnothing.040$ 06 = $\varnothing.060$	1/2 = 5 3/4 = 7
<p><b>HOW TO ORDER:</b> Specify dimensions by completing the following chart. <b>Call:</b> <b>1-800-499-OSCO</b></p>						
<p><input type="text"/> Specify resin to be processed.</p>						

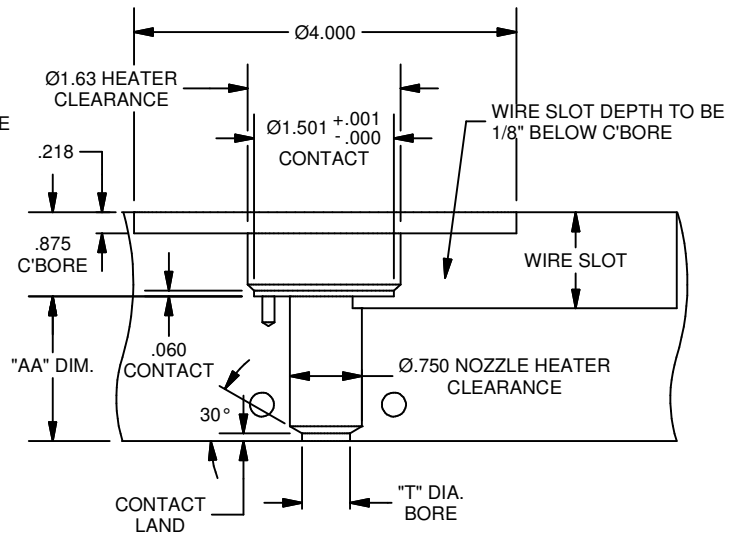
NOTE: For sizes other than shown, please contact Osco Tech Service.



## "G" STYLE BORING INFORMATION



## "H" STYLE BORING INFORMATION



### THERMAL EXPANSION NOTE

"AA" DIM. = "A" DIM. + THERMAL EXPANSION  
 EXPANSION = "A" DIM. X .00000633 X (PROCESSING TEMP. - 68°F)

TIP INFORMATION		BORING INFORMATION	
"T" DIA.	"L" DIM.	"T" DIA. $\pm .0005$ BORE $- .0000$	CONTACT LAND
.375	.182	.3755	.060
.500	.182	.5005	.080
.750	.182	.7505	.080

\* Note: The information given here should be used as a guide. A variation in growth of any nozzle from the formulation is possible due to cooling conditions or mold configuration. It is advisable to allow a margin of safety. For some very critical applications, an empirical factor may have to be obtained.

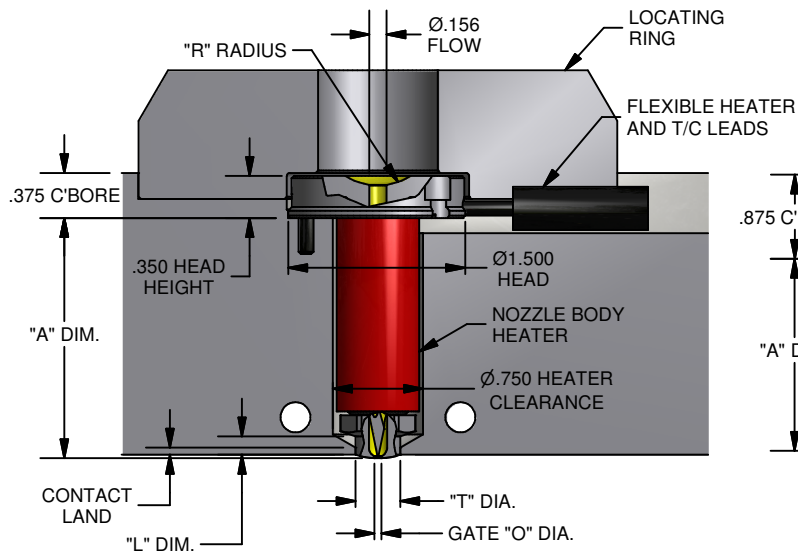


# RGS-20-G/H HSN

The "RGS" Recessed Gate Full Body Style HSN - 20 Series Hot Sprue Nozzle utilizes a  $\varnothing .156$  resin bore. The **"G" Style Nozzle** is engineered for general purpose resins and the **"H" Style Nozzle** is engineered for the toughest High Heat / Heat Sensitive Resins.

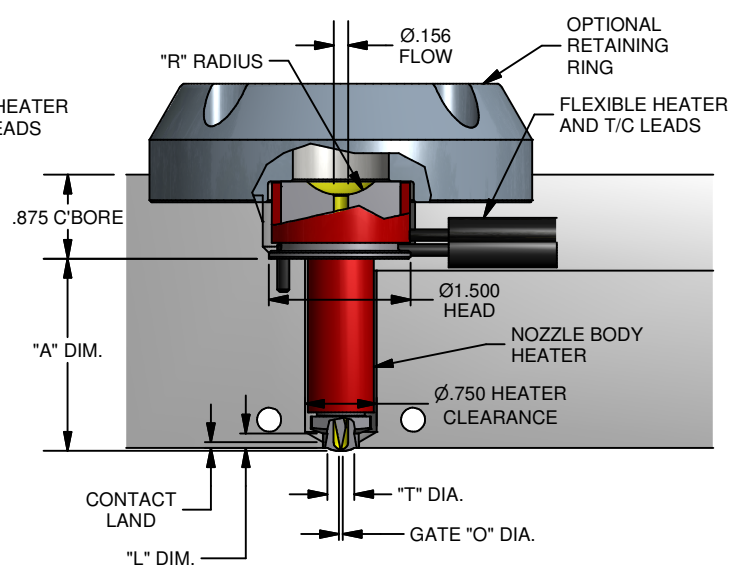
## "G" STYLE

For Processing Temps (<500 °F)

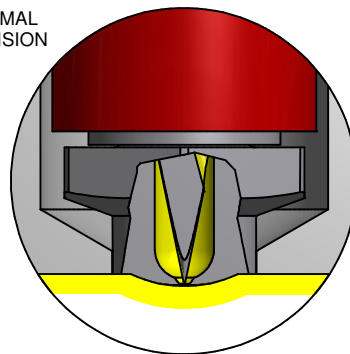
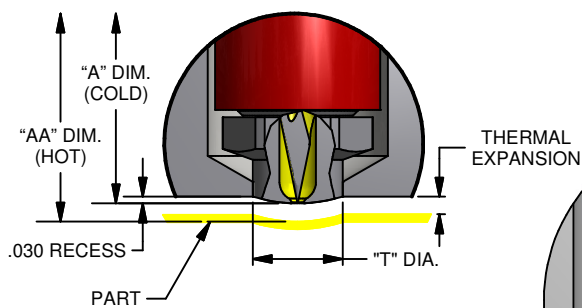


## "H" STYLE

For Processing Temps (>500 °F)

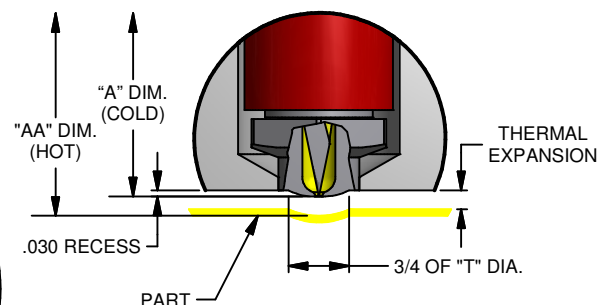


## FULL TIP RADIUS



SHOWN HOT

## PARTIAL TIP RADIUS



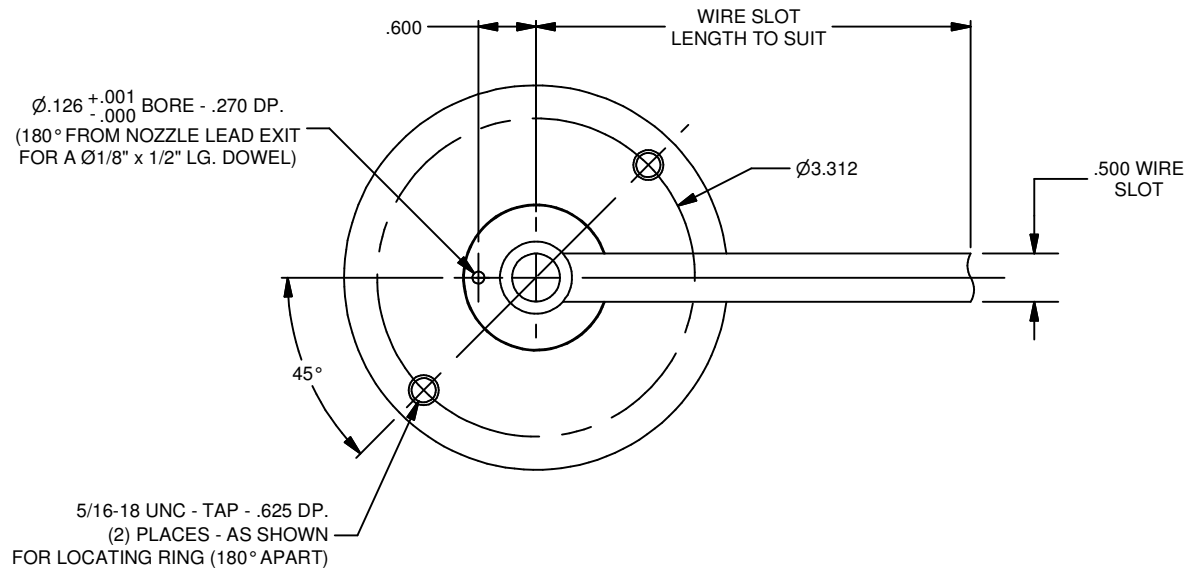
### THERMAL EXPANSION NOTE

"AA" DIM. = "A" DIM. + THERMAL EXPANSION  
EXPANSION = "A" DIM. X .00000633 X (PROCESSING TEMP. - 68 °F)

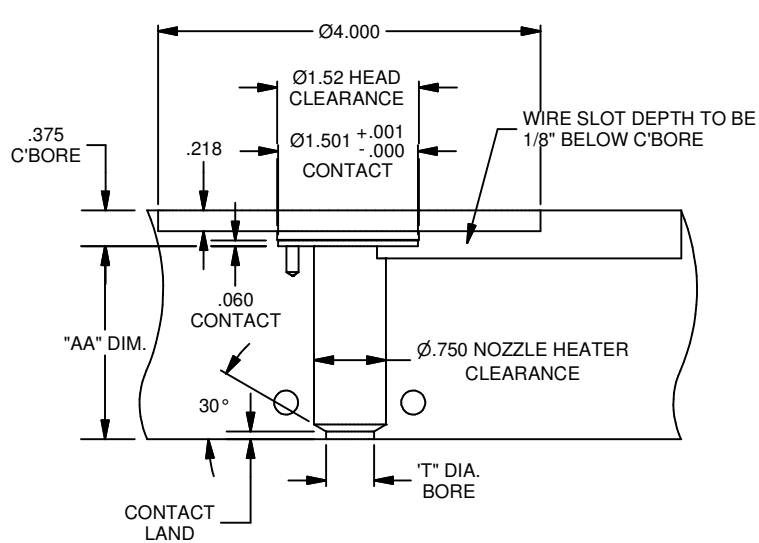
NOZZLE TYPE	"A" DIM.	STYLE	"T" TIP	DIMPLE	"O" GATE	"R" RADIUS	RETAINING RING
R G S 0 2	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<p><b>HOW TO ORDER:</b> Specify dimensions by completing the following chart. Call: 1-800-499-OSCO</p>							
	1.500" = 15 2.000" = 20 2.500" = 25 3.000" = 30	G = Style H = Style	3 = Ø.375 5 = Ø.500 7 = Ø.750	F = "T" DIA. P = 3/4 OF "T" DIA.	04 = Ø.040 06 = Ø.060	1/2 = 5 3/4 = 7	Y = Yes N = No
<div> <input type="text"/> Specify resin to be processed.         </div>							

NOTE: For sizes other than shown, please contact Osco Tech Service.

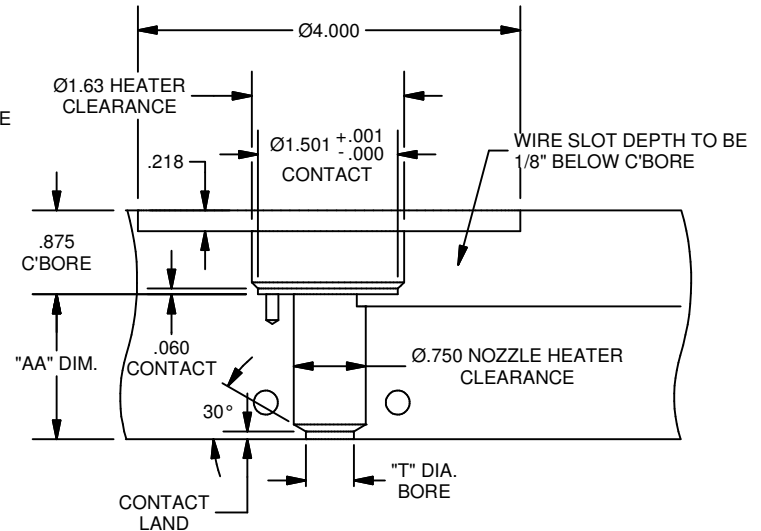
# RGS-20-G/H BORING



## "G" STYLE BORING INFORMATION



## "H" STYLE BORING INFORMATION



### THERMAL EXPANSION NOTE

"AA" DIM. = "A" DIM. + THERMAL EXPANSION

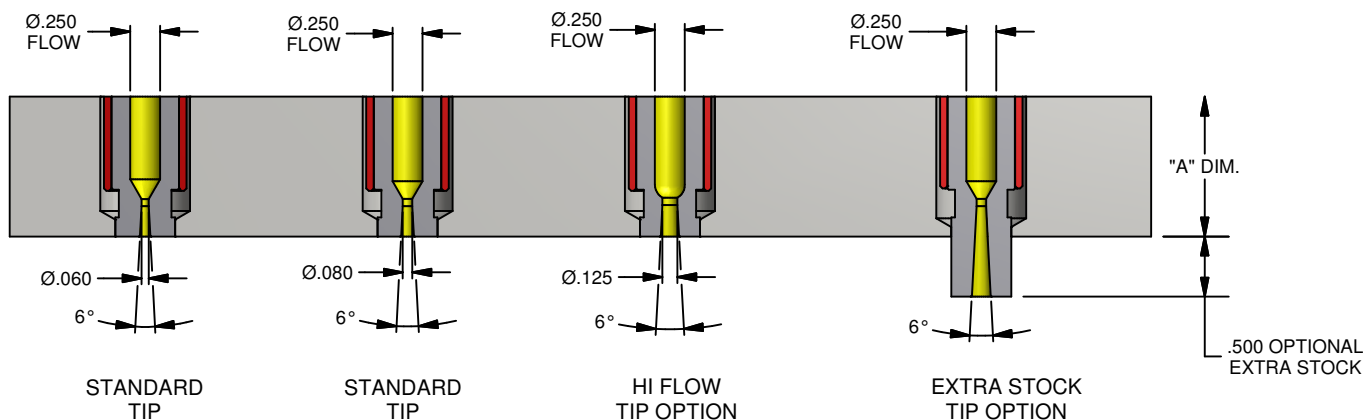
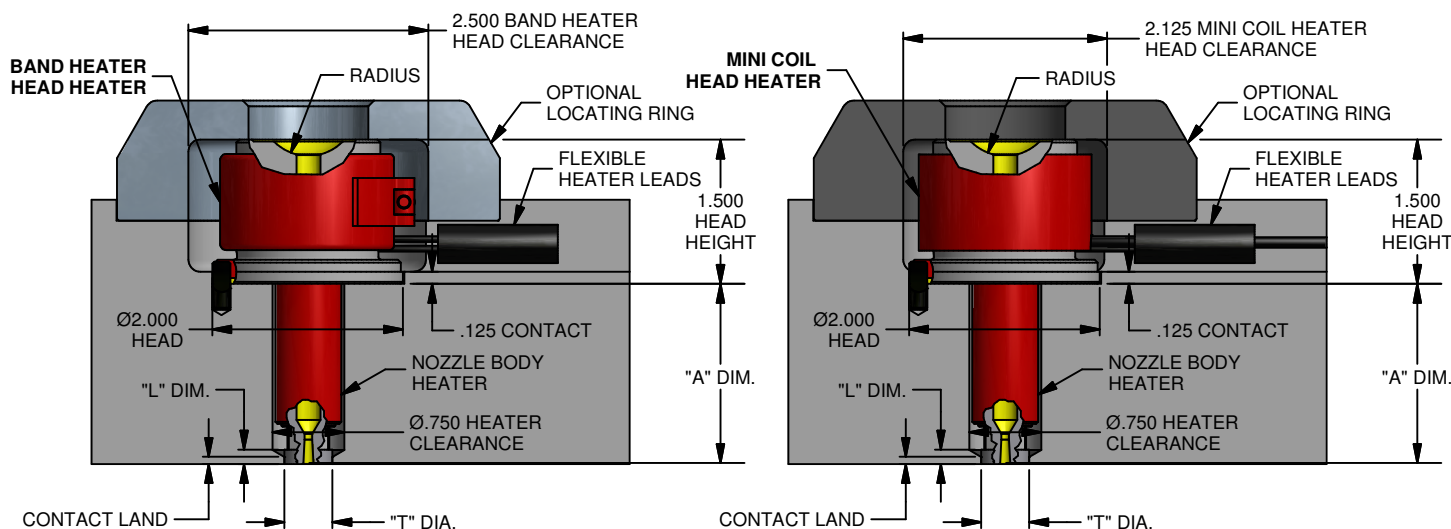
EXPANSION = "A" DIM. X .00000633 X (PROCESSING TEMP. - 68 °F)

TIP INFORMATION		BORING INFORMATION	
"T" DIA.	"L" DIM.	"T" DIA. +.0005 BORE -.0000	CONTACT LAND
.375	.182	.3755	.040 MIN.
.500	.182	.5005	.040 MIN.
.750	.182	.7505	.040 MIN.

\* Note: The information given here should be used as a guide. A variation in growth of any nozzle from the formulation is possible due to cooling conditions or mold configuration. It is advisable to allow a margin of safety. For some very critical applications, an empirical factor may have to be obtained.

# AFS-35-HSN

The 35 Series AFS Hot Sprue Nozzle is designed to fit into a .750" bore. The two zone design provides the control necessary to process either high heat engineering grade or commodity grade resins.



## THERMAL EXPANSION NOTE

"AA" DIM. = "A" DIM. + THERMAL EXPANSION  
EXPANSION = "A" DIM. X .00000633 X (PROCESSING TEMP. - 68 °F)

TIP INFORMATION		BORING INFORMATION	
"T" DIA.	"L" DIM.	"T" DIA. +.0005 BORE -.0000	CONTACT LAND
.375	.160	.3755	.060
.500	.160	.5005	.080
.750	.150	.7505	.150

NOZZLE TYPE	"A" DIM.	"T" TIP	"L" LAND	"O" GATE	"R" RADIUS
<div style="display: flex; gap: 5px;"> <div style="border: 1px solid black; padding: 2px 5px;">A</div> <div style="border: 1px solid black; padding: 2px 5px;">F</div> <div style="border: 1px solid black; padding: 2px 5px;">S</div> <div style="border: 1px solid black; padding: 2px 5px;">3</div> <div style="border: 1px solid black; padding: 2px 5px;">5</div> </div>	<div style="display: flex; gap: 10px;"> <div style="border: 1px solid black; width: 30px; height: 30px;"></div> <div style="border: 1px solid black; width: 30px; height: 30px;"></div> </div>	<div style="border: 1px solid black; width: 30px; height: 30px;"></div>	<div style="border: 1px solid black; width: 30px; height: 30px;"></div>	<div style="display: flex; gap: 10px;"> <div style="border: 1px solid black; width: 30px; height: 30px;"></div> <div style="border: 1px solid black; width: 30px; height: 30px;"></div> </div>	<div style="border: 1px solid black; width: 30px; height: 30px;"></div>
<b>HOW TO ORDER:</b> Specify dimensions by completing the following chart. <b>Call:</b> <b>1-800-499-OSCO</b>	1.375" = 13 1.875" = 18 2.375" = 23 2.875" = 28 3.375" = 33	3 = Ø.375 5 = Ø.500 7 = Ø.750	Std. = S Extra Stock = X	06 = Ø.060 08 = Ø.080 12 = Ø.125 HI FLOW	1/2 = 5 3/4 = 7

Specify resin to be processed.

NOTE: For sizes other than shown, please contact Osco Tech Service.

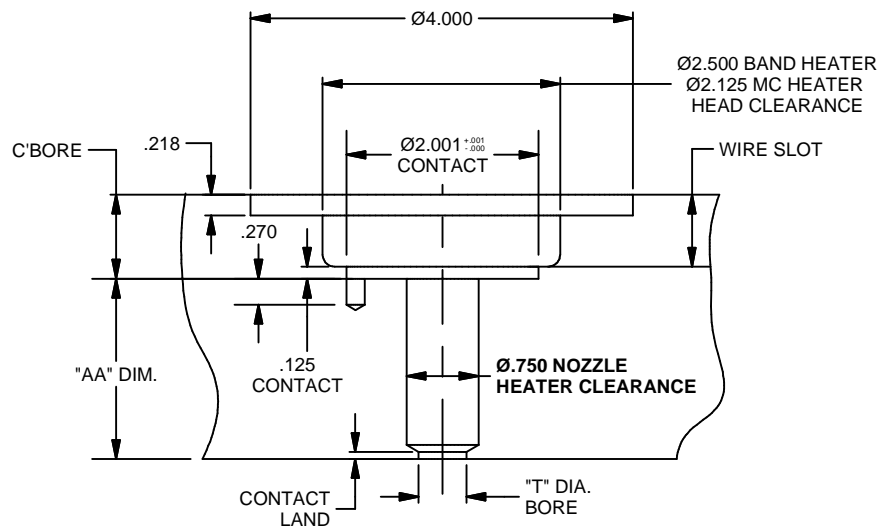
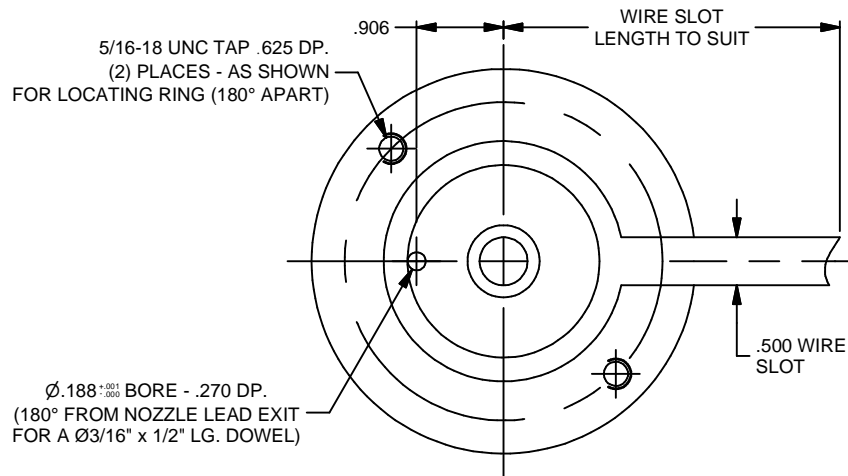
X.X

**OSCO<sup>®</sup> inc.**  
RUNNERLESS MOLDING SYSTEMS

\* Note: The information given here should be used as a guide. A variation in growth of any nozzle from the formulation is possible due to cooling conditions or mold configuration. It is advisable to allow a margin of safety. For some very critical applications, an empirical factor may have to be obtained.



# AFS-35-HSN - BORING



## THERMAL EXPANSION NOTE

"AA" DIM. = "A" DIM. + THERMAL EXPANSION  
EXPANSION = "A" DIM. X .00000633 X (PROCESSING TEMP. - 68°F)

TIP INFORMATION		BORING INFORMATION	
"T" DIA.	"L" DIM.	"T" DIA. +.0005 BORE -.0000	CONTACT LAND
.375	.160	.3755	.060
.500	.160	.5005	.080
.750	.150	.7505	.150

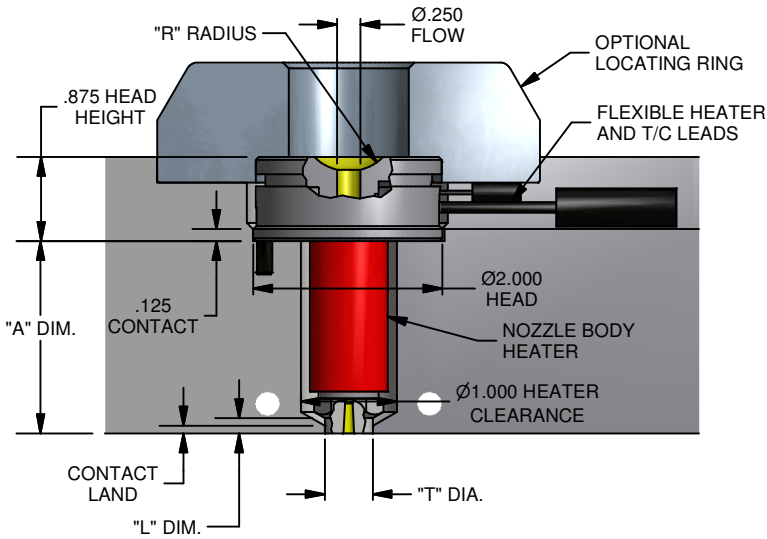
\* Note: The information given here should be used as a guide. A variation in growth of any nozzle from the formulation is possible due to cooling conditions or mold configuration. It is advisable to allow a margin of safety. For some very critical applications, an empirical factor may have to be obtained.

# AFS-50-G/H HSN

The "AFS" Absolute Flow Style HSN - 50 Series Hot Sprue Nozzle utilizes a Ø.250 resin bore. The **"G" Style Nozzle** is engineered for general purpose resins and the **"H" Style Nozzle** is engineered for the toughest High Heat / Heat Sensitive Resins.

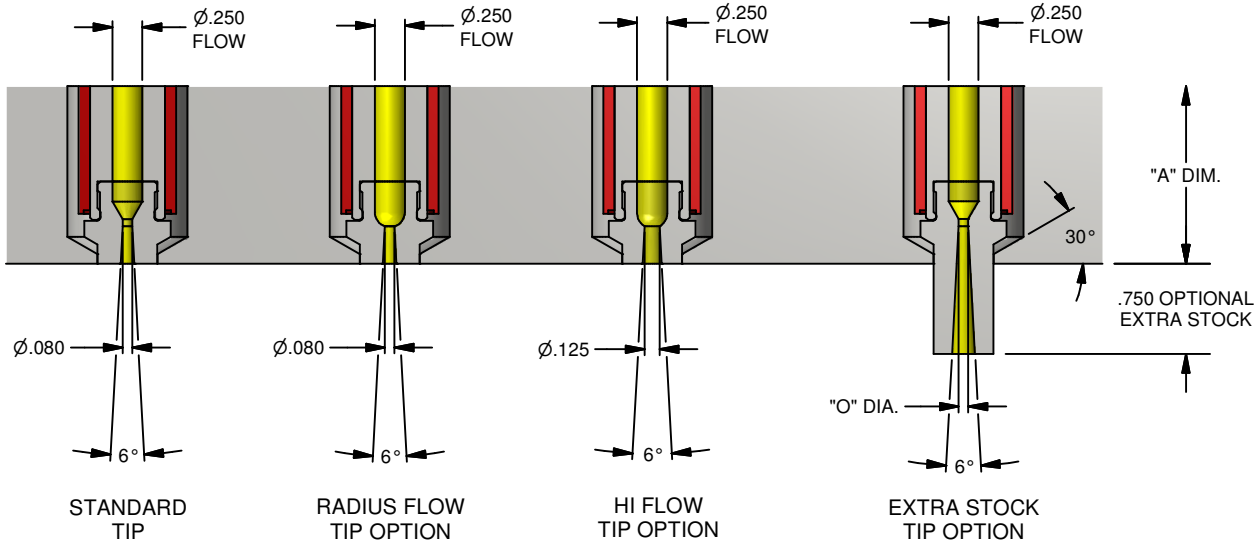
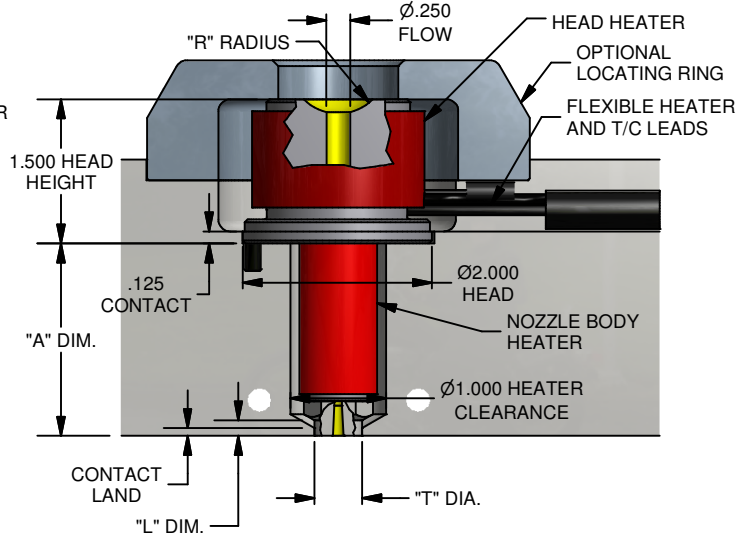
## "G" STYLE

For Processing Temps (<500°F)



## "H" STYLE







For Processing Temps (>500°F)



### THERMAL EXPANSION NOTE

"AA" DIM. = "A" DIM. + THERMAL EXPANSION

EXPANSION = "A" DIM. X .00000633 X (PROCESSING TEMP. - 68°F)

NOZZLE TYPE					"A" DIM.	STYLE	"T" TIP	"L" LAND	"O" GATE	"R" RADIUS
<b>A</b>	<b>F</b>	<b>S</b>	<b>0</b>	<b>5</b>						
<b>HOW TO ORDER:</b> Specify dimensions by completing the following chart. <b>Call:</b> <b>1-800-499-OSCO</b>					1.375" = <b>13</b> 1.875" = <b>18</b> 2.000" = <b>20</b> 2.375" = <b>23</b> 2.500" = <b>25</b> 2.875" = <b>28</b>	3.000" = <b>30</b> 3.375" = <b>33</b> 3.500" = <b>35</b> 4.000" = <b>40</b> 4.500" = <b>45</b> 5.000" = <b>50</b> 6.000" = <b>60</b>	<b>G</b> = Style <b>H</b> = Style  <b>5</b> = Ø.500 <b>7</b> = Ø.750 <b>1</b> = Ø1.000	Std. = <b>S</b> Extra Stock = <b>X</b>	<b>8</b> = Ø.080 <b>12</b> = Ø.125	<b>1/2</b> = <b>5</b> <b>3/4</b> = <b>7</b>
					<div style="border: 1px solid black; width: 100px; height: 30px; display: inline-block;"></div> Specify resin to be processed.					

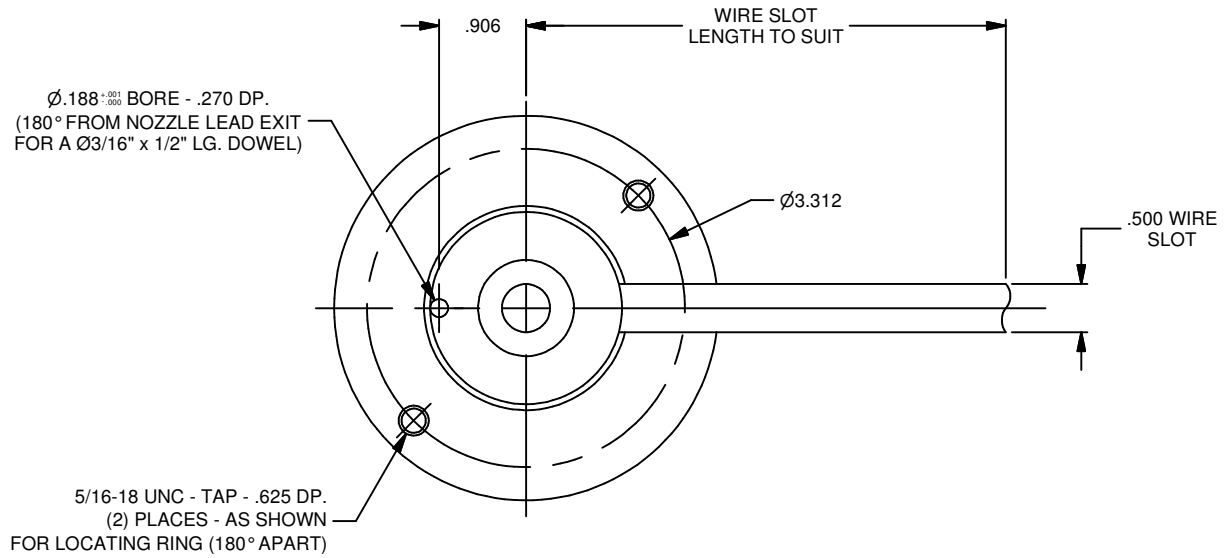
*NOTE: For sizes other than shown, please contact Osco Tech Service.*

## 9.0

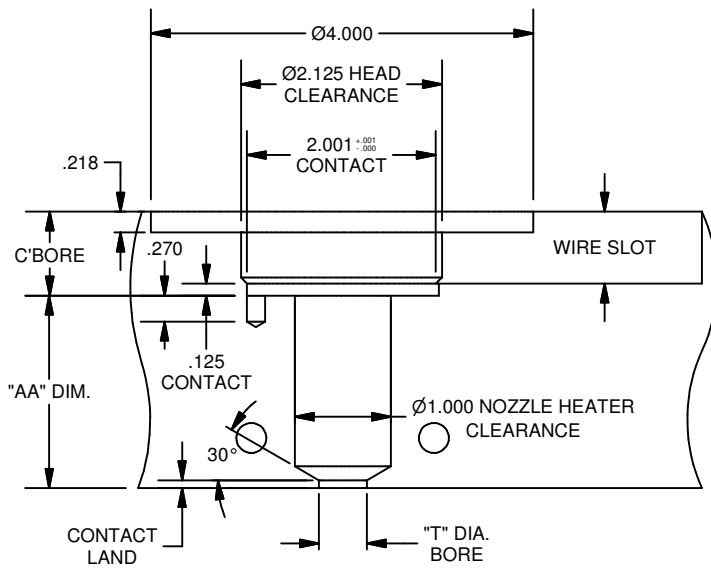
**OSCO<sup>®</sup> inc.**  
RUNNERLESS MOLDING SYSTEMS

\* *Note: The information given here should be used as a guide. A variation in growth of any nozzle from the formulation is possible due to cooling conditions or mold configuration. It is advisable to allow a margin of safety. For some very critical applications, an empirical factor may have to be obtained.*

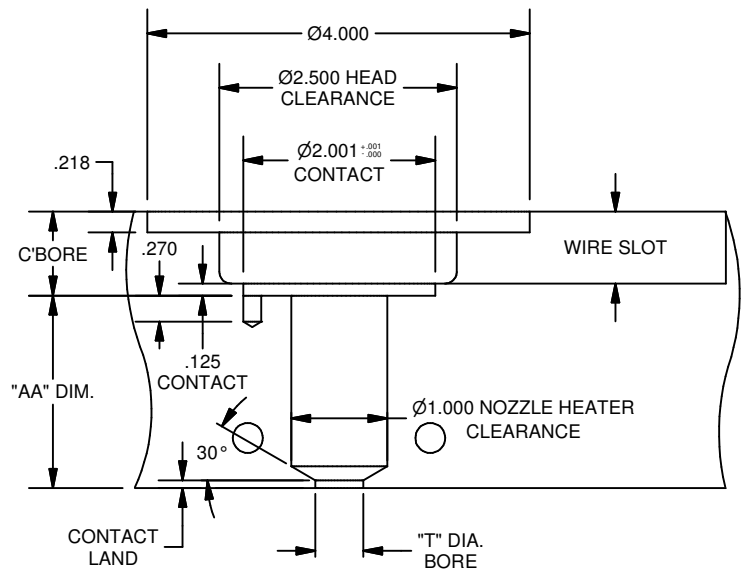
# AFS-50-G/H BORING



## "G" STYLE BORING INFORMATION



## "H" STYLE BORING INFORMATION



### THERMAL EXPANSION NOTE

"AA" DIM. = "A" DIM. + THERMAL EXPANSION  
EXPANSION = "A" DIM. X .00000633 X (PROCESSING TEMP. - 68°F)

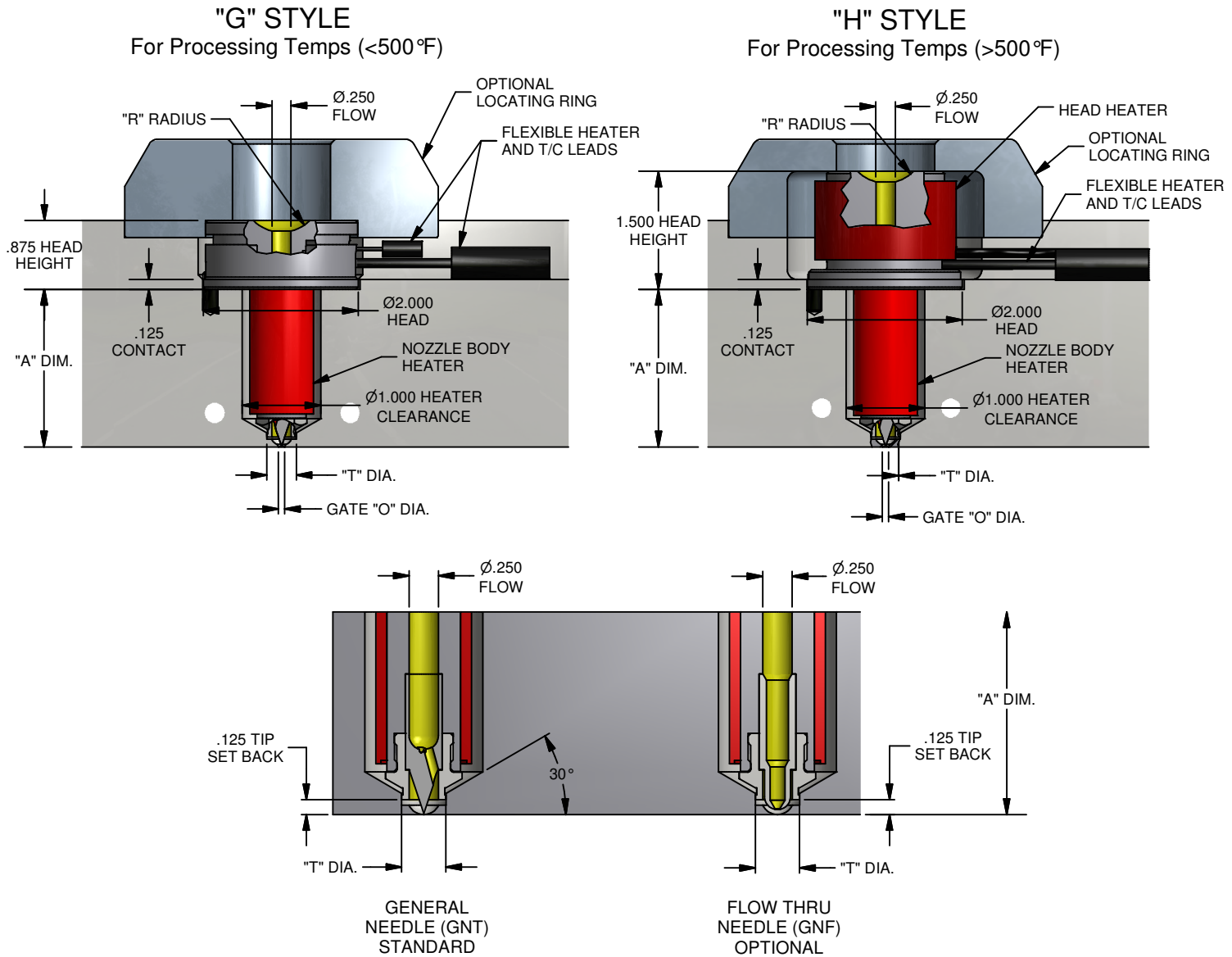
TIP INFORMATION		BORING INFORMATION	
"T" DIA.	"L" DIM.	"T" DIA. +.0005 BORE -.0000	CONTACT LAND
.500	.160	.5005	.080
.750	.150	.7505	.150
1.000	.150	1.0005	.150

★ Note: The information given here should be used as a guide. A variation in growth of any nozzle from the formulation is possible due to cooling conditions or mold configuration. It is advisable to allow a margin of safety. For some very critical applications, an empirical factor may have to be obtained.



# BLS-50-G/H HSN

The "BLS" Body Less Style HSN - 50 Series Hot Sprue Nozzle utilizes a  $\varnothing .250$  resin bore. The **"G" Style Nozzle** is engineered for general purpose resins and the **"H" Style Nozzle** is engineered for the toughest High Heat / Heat Sensitive Resins.



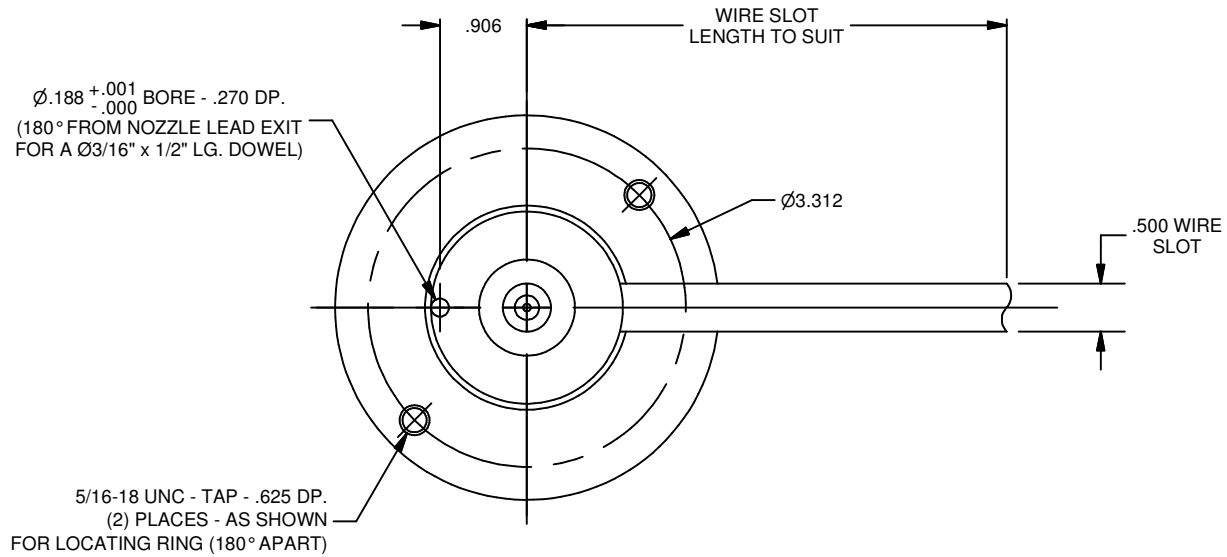
## THERMAL EXPANSION NOTE

"AA" DIM. = "A" DIM. + THERMAL EXPANSION  
EXPANSION = "A" DIM. X .0000633 X (PROCESSING TEMP. - 68°F)

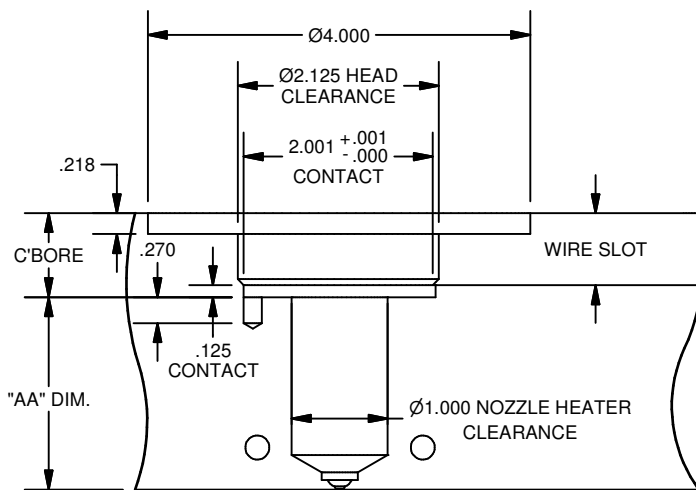
NOZZLE TYPE	"A" DIM.	STYLE	"O" GATE	"R" RADIUS
<b>B</b> <b>L</b> <b>S</b> <b>0</b> <b>5</b>	<input type="text"/> <input type="text"/>	<input type="text"/>	<input type="text"/> <input type="text"/>	<input type="text"/>
<b>HOW TO ORDER:</b> Specify dimensions by completing the following chart. <b>Call:</b> <b>1-800-499-OSCO</b>	1.375" = <b>13</b> 3.000" = <b>30</b> 1.875" = <b>18</b> 3.375" = <b>33</b> 2.000" = <b>20</b> 3.500" = <b>35</b> 2.375" = <b>23</b> 4.000" = <b>40</b> 2.500" = <b>25</b> 4.500" = <b>45</b> 2.875" = <b>28</b> 5.000" = <b>50</b> 6.000" = <b>60</b>	<b>G</b> = Style <b>H</b> = Style	Specify "O" * MIN. = .040 MAX. = .080	1/2 = <b>5</b> 3/4 = <b>7</b>
			<input type="text"/>	Specify resin to be processed.

NOTE: For sizes other than shown, please contact Osco Tech Service.

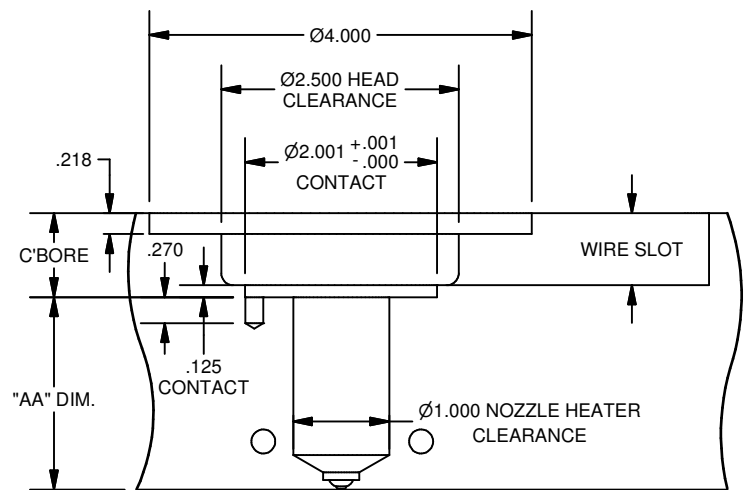
# BLS-50-G/H BORING



## "G" STYLE BORING INFORMATION

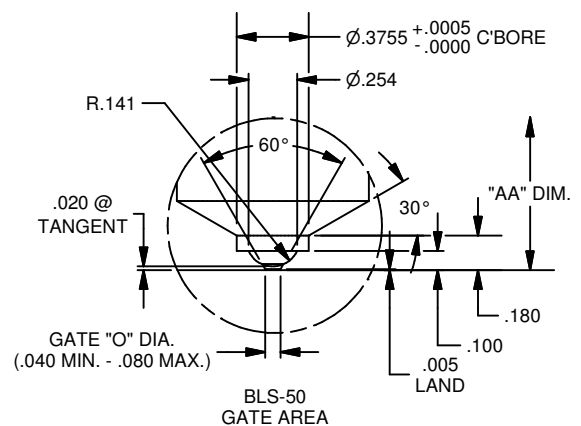


## "H" STYLE BORING INFORMATION



### THERMAL EXPANSION NOTE

"AA" DIM. = "A" DIM. + THERMAL EXPANSION  
EXPANSION = "A" DIM. X .00000633 X (PROCESSING TEMP. - 68 °F)  
(DUE TO THE BODY LESS NOZZLE DESIGN, THERMAL EXPANSION  
DOES NOT NEED TO BE CONSIDERED FOR STD. NOZZLE LENGTH)



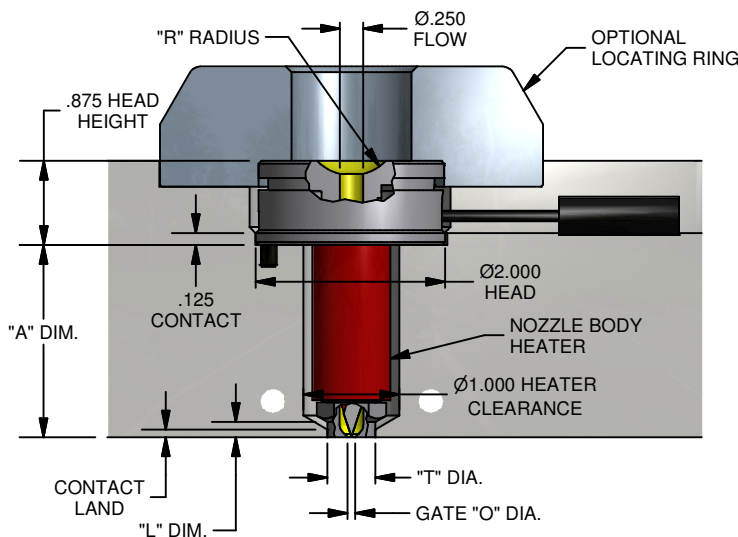
\* Note: The information given here should be used as a guide. A variation in growth of any nozzle from the formulation is possible due to cooling conditions or mold configuration. It is advisable to allow a margin of safety. For some very critical applications, an empirical factor may have to be obtained.

# FBS-50-G/H HSN

The "FBS" Full Body Style HSN - 50 Series Hot Sprue Nozzle utilizes a Ø.250 resin bore. The **"G" Style Nozzle** is engineered for general purpose resins and the **"H" Style Nozzle** is engineered for the toughest High Heat / Heat Sensitive Resins.

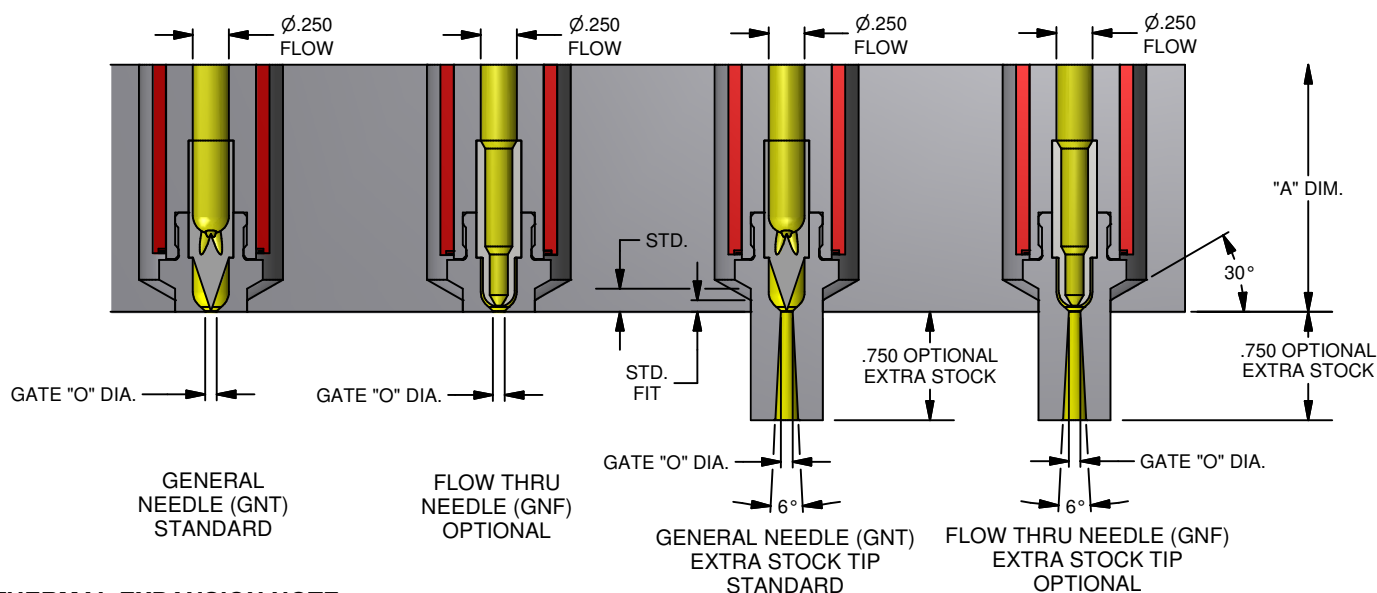
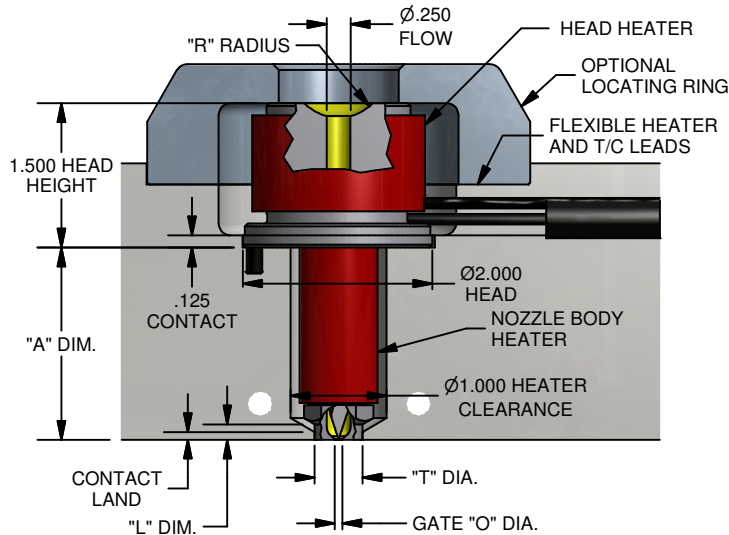
## "G" STYLE

For Processing Temps (<500 °F)



## "H" STYLE

For Processing Temps (>500°F)



### THERMAL EXPANSION NOTE

"AA" DIM. = "A" DIM. + THERMAL EXPANSION

$$\text{EXPANSION} = "A" \text{ DIM.} \times .00000633 \times (\text{PROCESSING TEMP.} - 68^{\circ}\text{F})$$

NOZZLE TYPE		"A" DIM.	STYLE	"T" TIP	"L" LAND	"O" GATE	"R" RADIUS
<b>F</b>	<b>B</b>	<b>S</b>	<b>0</b>	<b>5</b>			
<b>HOW TO ORDER:</b> Specify dimensions by completing the following chart. <b>Call:</b> <b>1-800-499-OSCO</b>		1.375" = <b>13</b> 1.875" = <b>18</b> 2.000" = <b>20</b> 2.375" = <b>23</b> 2.500" = <b>25</b> 2.875" = <b>28</b>	3.000" = <b>30</b> 3.375" = <b>33</b> 3.500" = <b>35</b> 4.000" = <b>40</b> 4.500" = <b>45</b> 5.000" = <b>50</b> 6.000" = <b>60</b>	<b>G</b> = Style <b>H</b> = Style <b>5</b> = Ø.500 <b>7</b> = Ø.750 <b>1</b> = Ø1.000	Std. = <b>S</b> Extra Stock = <b>X</b>	<b>04</b> = Ø.040 <b>06</b> = Ø.060 <b>08</b> = Ø.080	1/2 = <b>5</b> 3/4 = <b>7</b>
					<div style="border: 1px solid black; width: 100px; height: 30px; display: inline-block;"></div> Specify resin to be processed.		

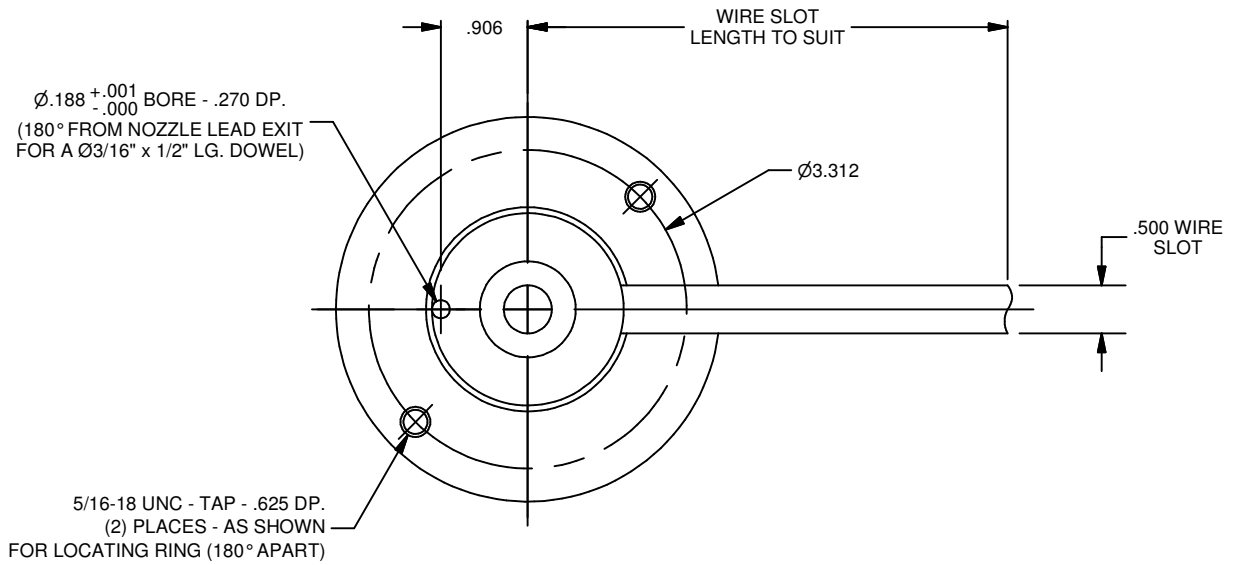
*NOTE: For sizes other than shown, please contact Osco Tech Service.*

13.0

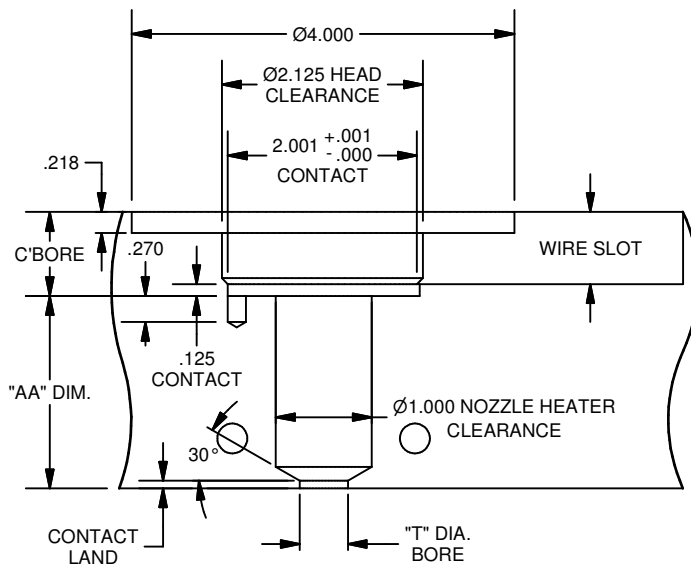
**OSCO<sup>®</sup> inc.**  
RUNNERLESS MOLDING SYSTEMS

\* Note: The information given here should be used as a guide. A variation in growth of any nozzle from the formulation is possible due to cooling conditions or mold configuration. It is advisable to allow a margin of safety. For some very critical applications, an empirical factor may have to be obtained.

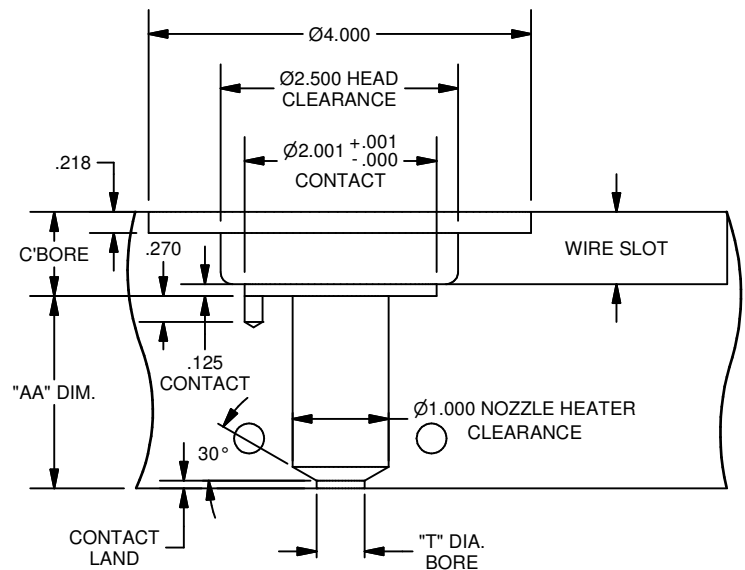
# FBS-50-G/H BORING



## "G" STYLE BORING INFORMATION



## "H" STYLE BORING INFORMATION



### THERMAL EXPANSION NOTE

"AA" DIM. = "A" DIM. + THERMAL EXPANSION

EXPANSION = "A" DIM. X .00000633 X (PROCESSING TEMP. - 68°F)

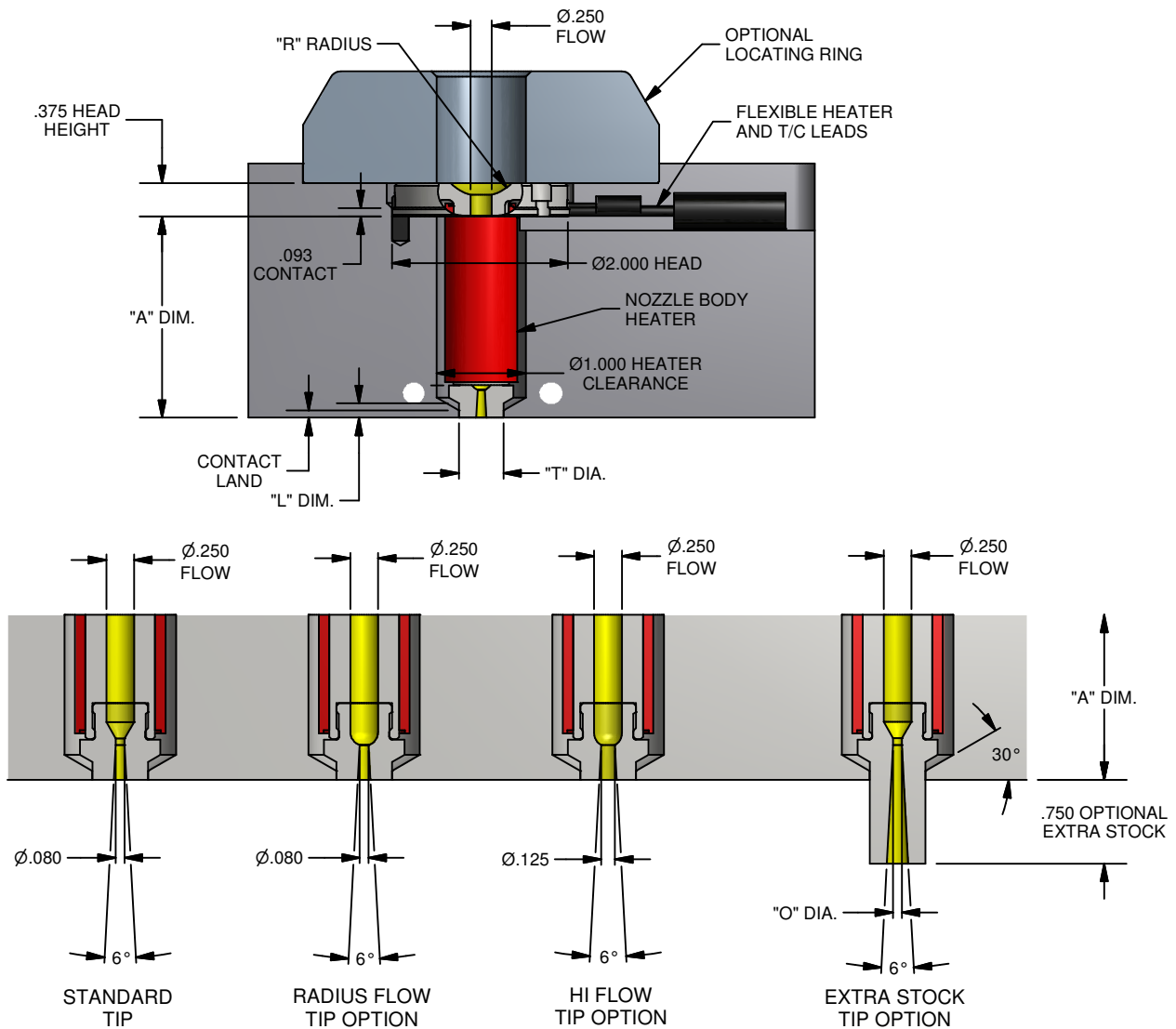
TIP INFORMATION		BORING INFORMATION	
"T" DIA.	"L" DIM.	"T" DIA. $^{+.0005}_{-.0000}$ BORE	CONTACT LAND
.500	.160	.5005	.080
.750	.150	.7505	.150
1.000	.150	1.0005	.150

\* Note: The information given here should be used as a guide. A variation in growth of any nozzle from the formulation is possible due to cooling conditions or mold configuration. It is advisable to allow a margin of safety. For some very critical applications, an empirical factor may have to be obtained.

# AFS-50-P HSN

The "AFS" Absolute Flow Style HSN - 50 Series Hot Sprue Nozzle utilizes a Ø.250 resin bore. The **"P" Style** Nozzle is engineered for general purpose resins.

## "P" STYLE For Processing Temps (<500°F)



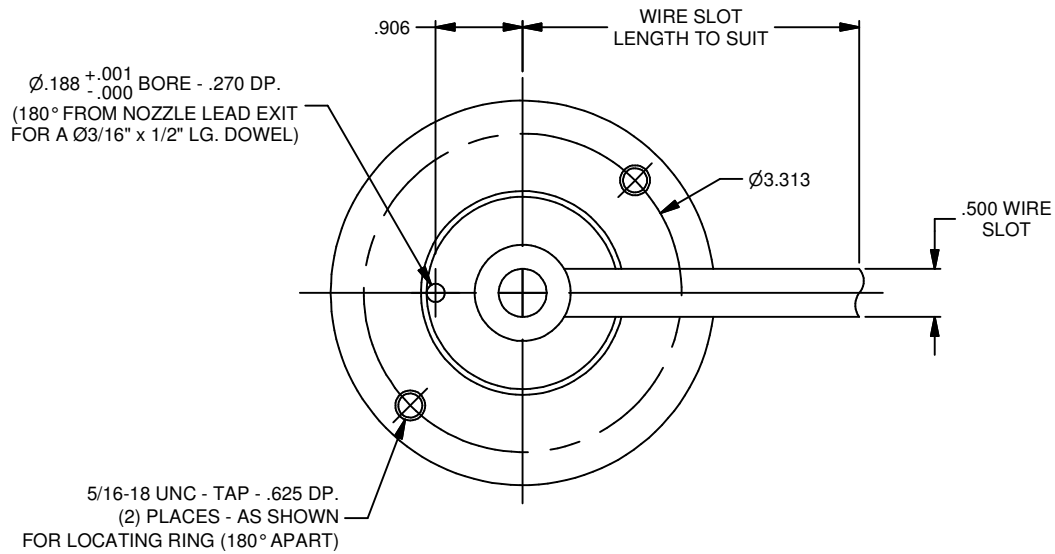
### THERMAL EXPANSION NOTE

"AA" DIM. = "A" DIM. + THERMAL EXPANSION  
EXPANSION = "A" DIM. X .00000633 X (PROCESSING TEMP. - 68°F)

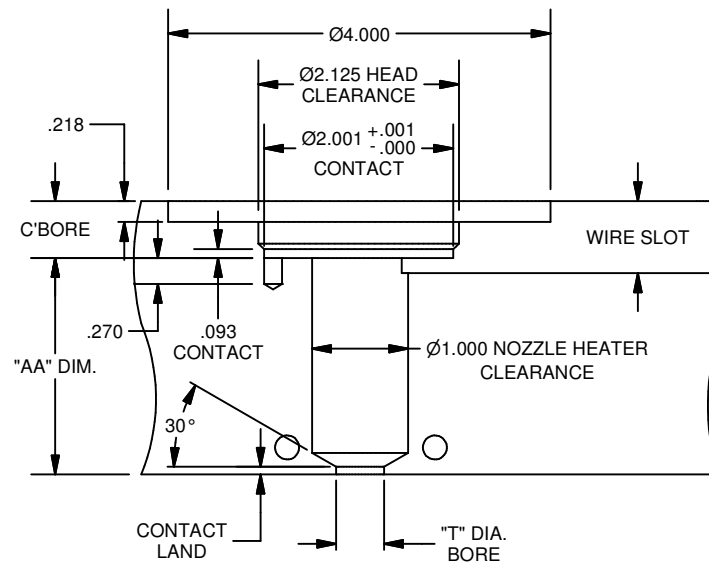
NOZZLE TYPE	"A" DIM.	STYLE	"T" TIP	"L" LAND	"O" GATE	"R" RADIUS
<b>A</b> <b>F</b> <b>S</b> <b>0</b> <b>5</b>	<input type="text"/> <input type="text"/>	<b>P</b>	<input type="text"/>	<input type="text"/>	<input type="text"/> <input type="text"/>	<input type="text"/>
<div> <b>HOW TO ORDER:</b> Specify dimensions by completing the following chart. Call: 1-800-499-OSCO                 </div>						
1.750" = 17	3.750" = 37	5 = Ø.500		Std. = S	8 = Ø.080	1/2 = 5
2.250" = 22	4.250" = 42	7 = Ø.750		Extra	12 = Ø.125	3/4 = 7
2.750" = 27	5.250" = 52	1 = Ø1.000		Stock = X		
3.250" = 32	6.250" = 62					
<div> <input type="text"/> Specify resin to be processed.                 </div>						

NOTE: For sizes other than shown, please contact Osco Tech Service.





## "P" STYLE BORING INFORMATION



### THERMAL EXPANSION NOTE

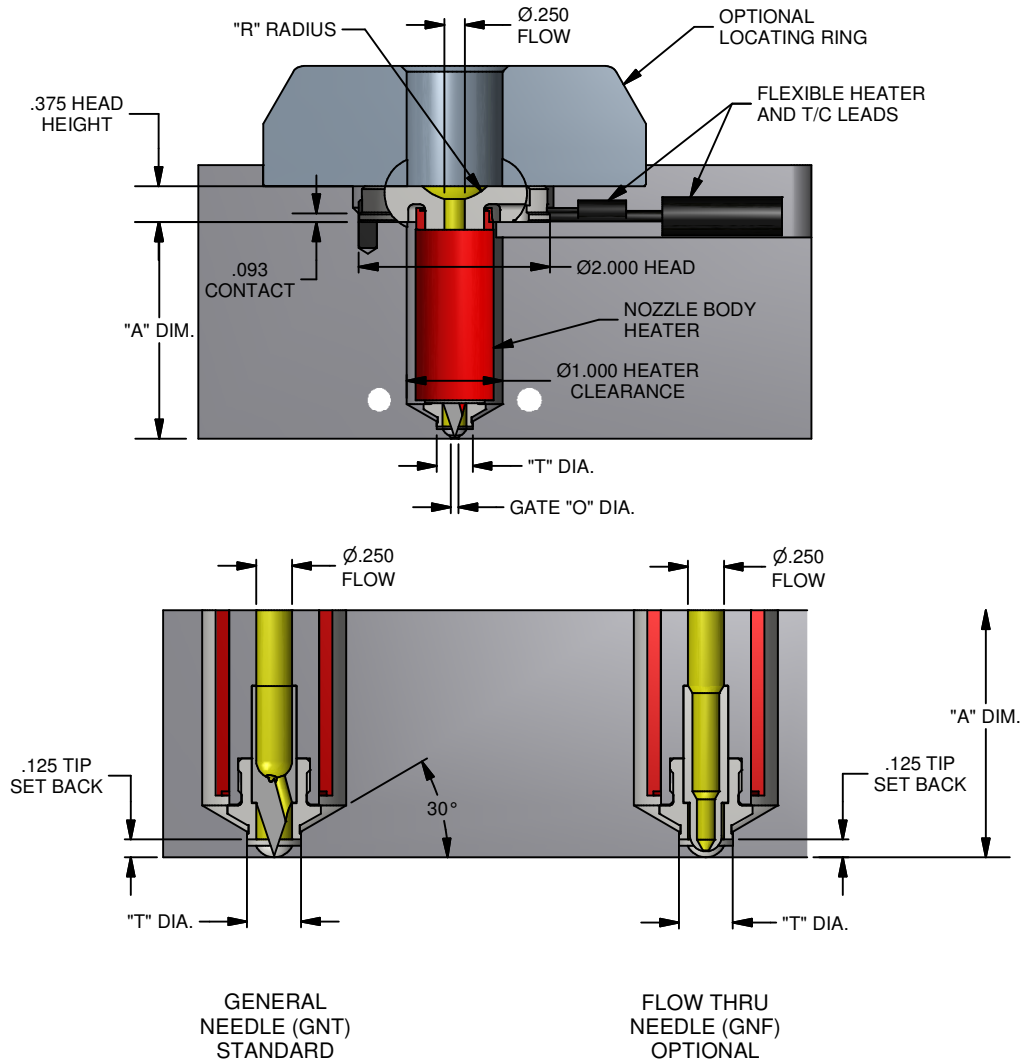
"AA" DIM. = "A" DIM. + THERMAL EXPANSION  
EXPANSION = "A" DIM. X .00000633 X (PROCESSING TEMP. - 68°F)

TIP INFORMATION		BORING INFORMATION	
"T" DIA.	"L" DIM.	"T" DIA. $\pm .0005$ BORE $\pm .0000$	CONTACT LAND
.500	.160	.5005	.080
.750	.150	.7505	.150
1.000	.150	1.0005	.150

# BLS-50-P HSN

The "BLS" Body Less Style HSN - 50 Series Hot Sprue Nozzle utilizes a Ø.250 resin bore. The **"P" Style Nozzle** is engineered for general purpose resins.

## "P" STYLE For Processing Temps (<500°F)

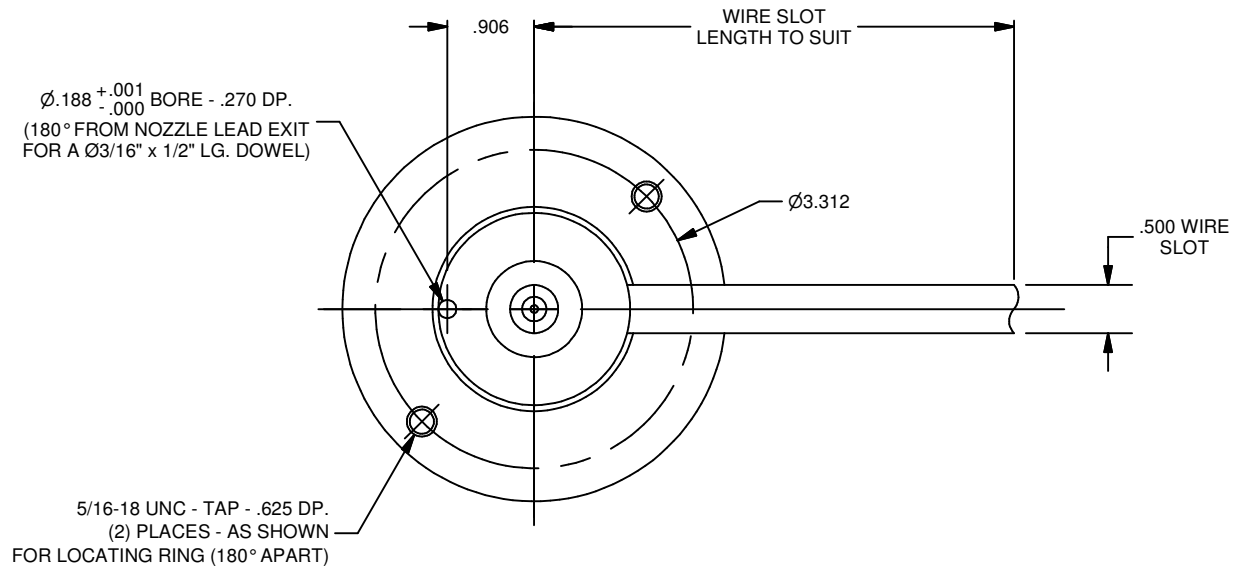


### THERMAL EXPANSION NOTE

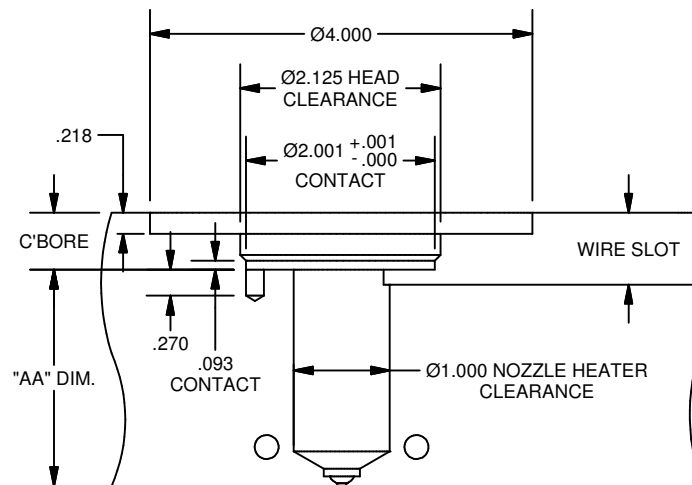
"AA" DIM. = "A" DIM. + THERMAL EXPANSION  
EXPANSION = "A" DIM. X .00000633 X (PROCESSING TEMP. - 68 °F)

NOZZLE TYPE	"A" DIM.	STYLE	"O" GATE	"R" RADIUS
<b>B</b> <b>L</b> <b>S</b> <b>0</b> <b>5</b>	<input type="text"/> <input type="text"/>	<b>P</b>	<input type="text"/> <input type="text"/>	<input type="text"/>
<b>HOW TO ORDER:</b> Specify dimensions by completing the following chart. Call: <b>1-800-499-OSCO</b>	1.750" = 17		Specify "O" * MIN. = .040 MAX. = .080	1/2 = 5 3/4 = 7
	2.250" = 22    3.750" = 37 2.750" = 27    5.250" = 52 3.250" = 32    6.250" = 62			
			<input type="text"/>	Specify resin to be processed.

NOTE: For sizes other than shown, please contact Osco Tech Service.

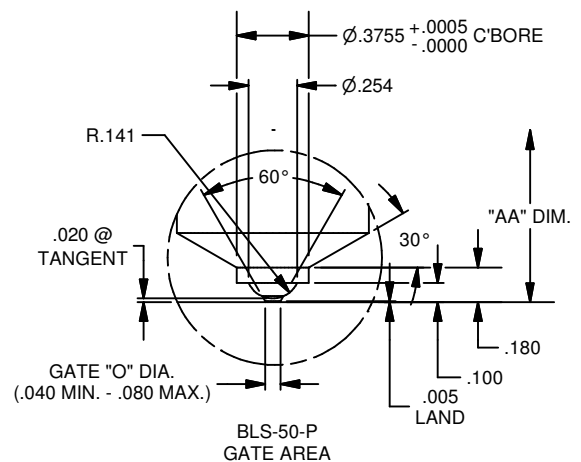


## "P" STYLE BORING INFORMATION



### THERMAL EXPANSION NOTE

"AA" DIM. = "A" DIM. + THERMAL EXPANSION  
EXPANSION = "A" DIM. X .00000633 X (PROCESSING TEMP. - 68 °F)  
(DUE TO THE BODY LESS NOZZLE DESIGN, THERMAL EXPANSION  
DOES NOT NEED TO BE CONSIDERED FOR STD. NOZZLE LENGTH)

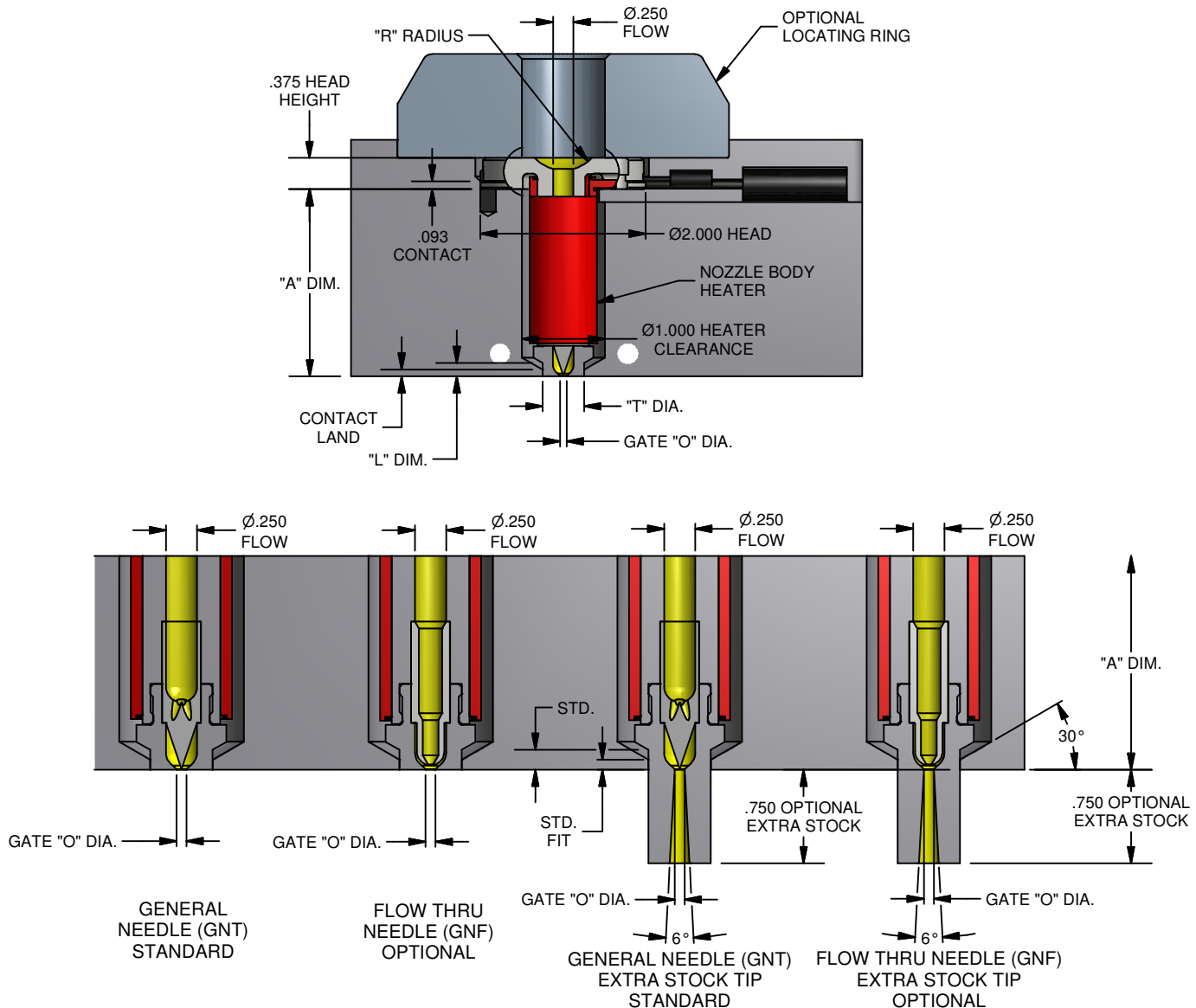


★ Note: The information given here should be used as a guide. A variation in growth of any nozzle from the formulation is possible due to cooling conditions or mold configuration. It is advisable to allow a margin of safety. For some very critical applications, an empirical factor may have to be obtained.

# FBS-50-P HSN

The "FBS" Full Body Style HSN - 50 Series Hot Sprue Nozzle utilizes a  $\varnothing.250$  resin bore. The **"P" Style Nozzle** is engineered for general purpose resins.

## "P" STYLE For Processing Temps (<500°F)



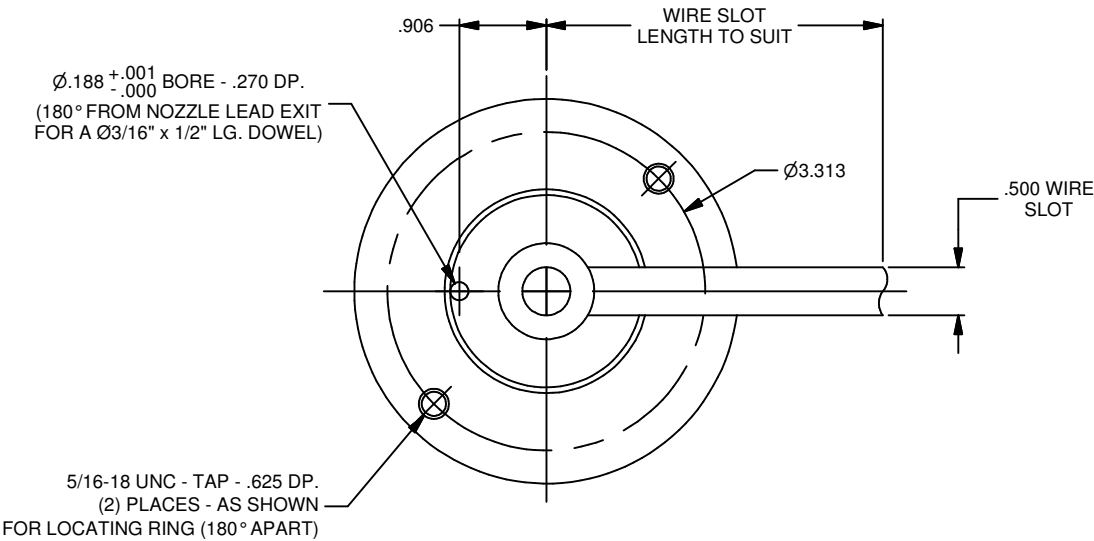
### THERMAL EXPANSION NOTE

"AA" DIM. = "A" DIM. + THERMAL EXPANSION  
EXPANSION = "A" DIM. X .0000633 X (PROCESSING TEMP. - 68°F)

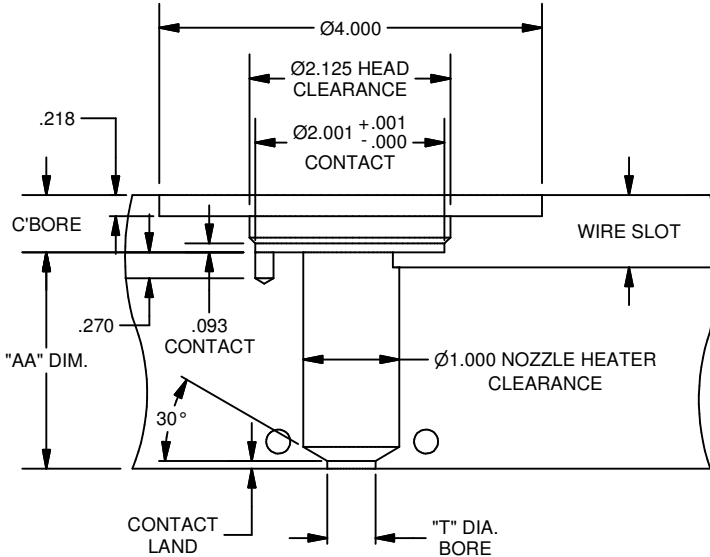
NOZZLE TYPE	"A" DIM.	STYLE	"T" TIP	"L" LAND	"O" GATE	"R" RADIUS
<b>F B S 0 5</b>	<input type="text"/>	<b>P</b>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<b>HOW TO ORDER:</b> Specify dimensions by completing the following chart. Call: <b>1-800-499-OSCO</b>	1.750" = 17 2.250" = 22 2.750" = 27 3.250" = 32	3.750" = 37 4.250" = 42 5.250" = 52 6.250" = 62	5 = $\varnothing.500$ 7 = $\varnothing.750$ 1 = $\varnothing.1000$	Std. = S Extra Stock = X	04 = $\varnothing.040$ 06 = $\varnothing.060$ 08 = $\varnothing.080$	1/2 = 5 3/4 = 7
						<input type="text"/> Specify resin to be processed.

NOTE: For sizes other than shown, please contact Osco Tech Service.

FBS-50-P BORING



## "P" STYLE BORING INFORMATION



## THERMAL EXPANSION NOTE

"AA" DIM. = "A" DIM. + THERMAL EXPANSION

EXPANSION = "A" DIM. X .00000633 X (PROCESSING TEMP. - 68°F)

TIP INFORMATION		BORING INFORMATION	
"T" DIA.	"L" DIM.	"T" DIA. +.0005 BORE -.0000	CONTACT LAND
.500	.160	.5005	.080
.750	.150	.7505	.150
1.000	.150	1.0005	.150

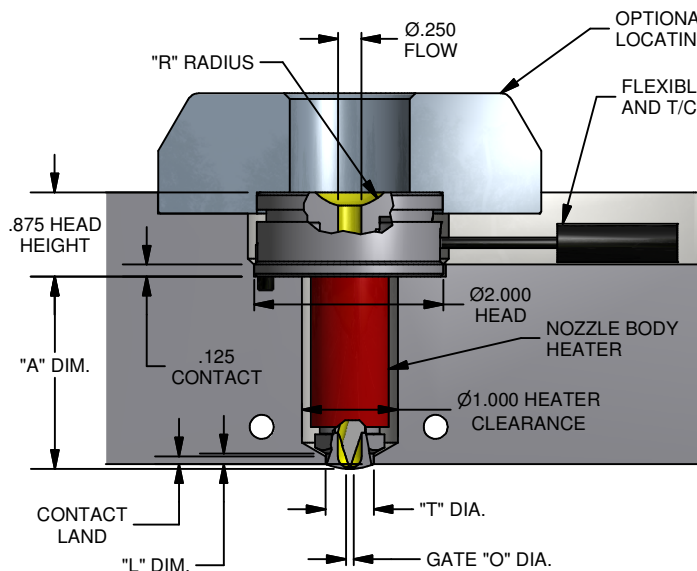
\* Note: The information given here should be used as a guide. A variation in growth of any nozzle from the formulation is possible due to cooling conditions or mold configuration. It is advisable to allow a margin of safety. For some very critical applications, an empirical factor may have to be obtained.



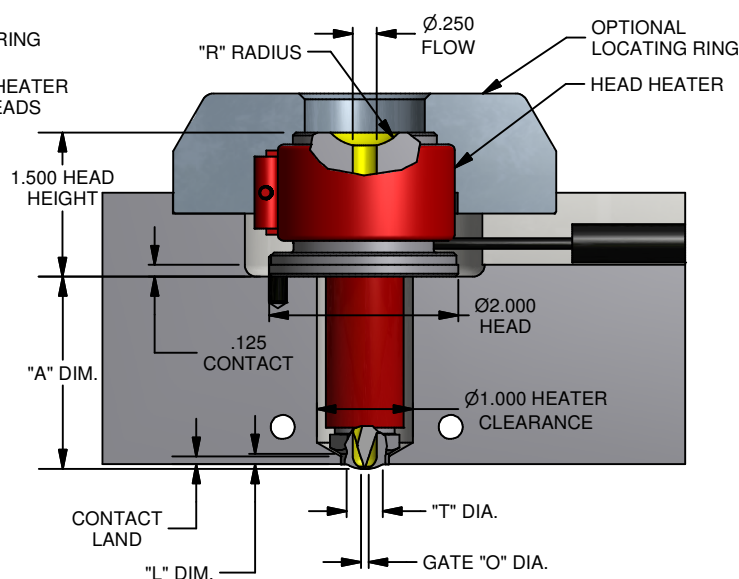
# RGS-50-G/H HSN

The "RGS" Recessed Gate Full Body Style HSN - 50 Series Hot Sprue Nozzle utilizes a Ø.250 resin bore. The **"G" Style Nozzle** is engineered for general purpose resins and the **"H" Style Nozzle** is engineered for the toughest High Heat / Heat Sensitive Resins.

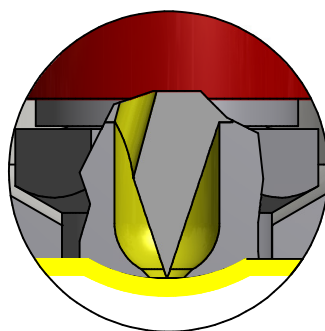
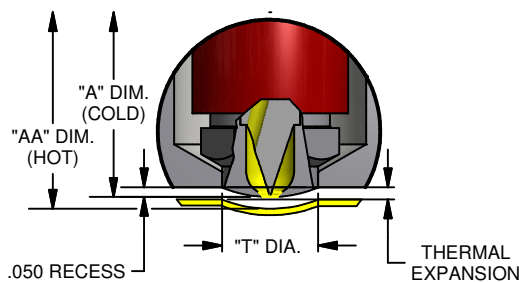
**"G" STYLE**  
For Processing Temps (<500°F)



**"H" STYLE**  
For Processing Temps (>500°F)

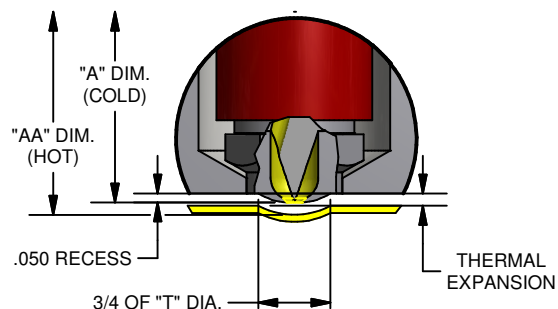


**FULL TIP RADIUS**



**SHOWN HOT**

**PARTIAL TIP RADIUS**



## THERMAL EXPANSION NOTE

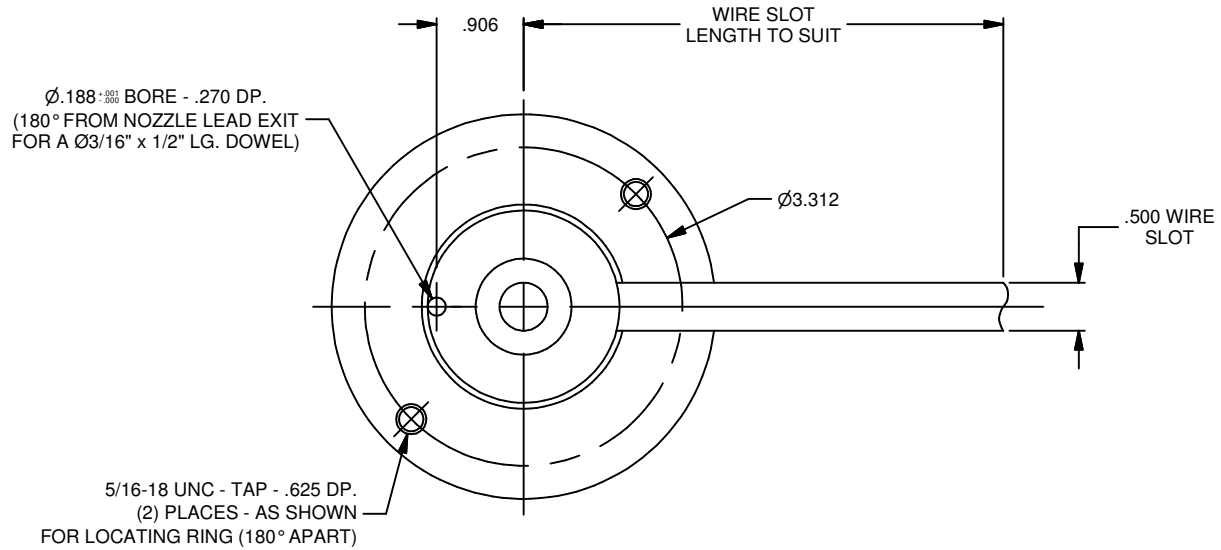
"AA" DIM. = "A" DIM. + THERMAL EXPANSION

EXPANSION = "A" DIM. X .00000633 X (PROCESSING TEMP. - 68°F)

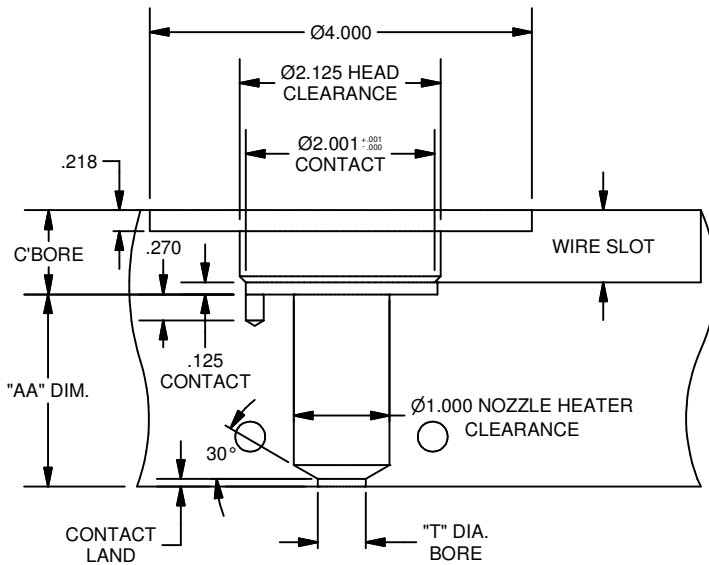
NOZZLE TYPE	"A" DIM.	STYLE	"T" TIP	DIMPLE	"O" GATE	"R" RADIUS
<div>R</div> <div>G</div> <div>S</div> <div>0</div> <div>5</div>	<div></div> <div></div>	<div></div>	<div></div>	<div></div>	<div></div> <div></div>	<div></div>
<b>HOW TO ORDER:</b> Specify dimensions by completing the following chart. Call: <b>1-800-499-OSCO</b>	1.375" = 13 1.500" = 15 1.875" = 18 2.000" = 20 2.375" = 23 2.500" = 25 2.875" = 28	3.000" = 30 3.375" = 33 3.500" = 35 4.000" = 40 4.500" = 45 5.000" = 50 6.000" = 60	G = Style H = Style  5 = Ø.500 7 = Ø.750 1 = Ø1.000	F = "T" DIA. P = 3/4 OF "T" DIA.	04 = Ø.040 06 = Ø.060 08 = Ø.080	1/2 = 5 3/4 = 7
						Specify resin to be processed.

NOTE: For sizes other than shown, please contact Osco Tech Service.

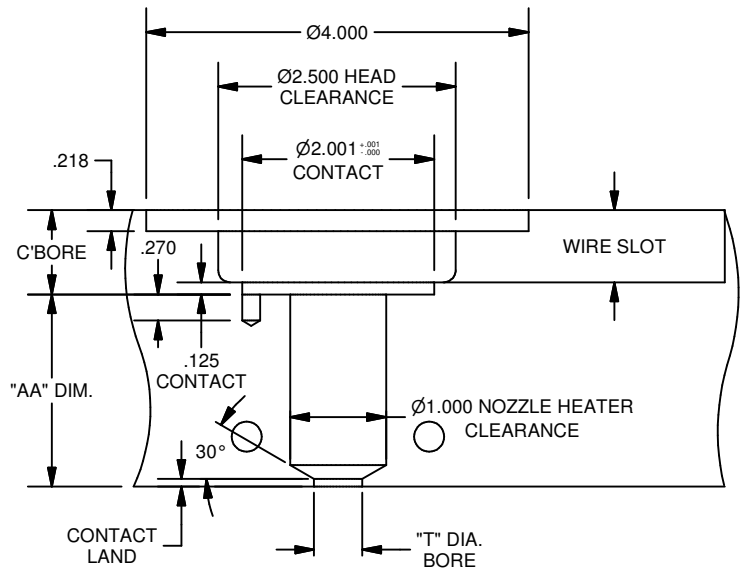
# RGS-50-G/H BORING



## "G" STYLE BORING INFORMATION



## "H" STYLE BORING INFORMATION



### THERMAL EXPANSION NOTE

"AA" DIM. = "A" DIM. + THERMAL EXPANSION  
EXPANSION = "A" DIM. X .00000633 X (PROCESSING TEMP. - 68°F)

TIP INFORMATION		BORING INFORMATION	
"T" DIA.	"L" DIM.	"T" DIA. <sup>+.0005</sup> <sub>BORE - .0000</sub>	CONTACT LAND
.500	.160	.5005	.040 MIN.
.750	.150	.7505	.040 MIN.
1.000	.150	1.0005	.040 MIN.

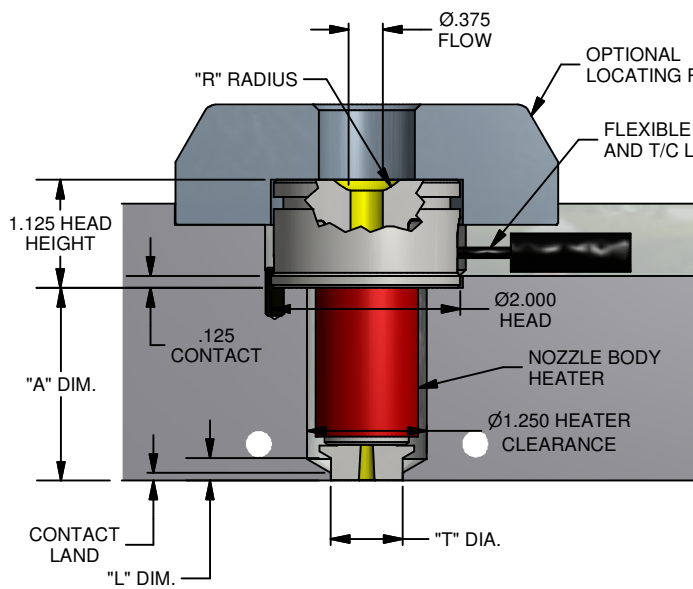
\* Note: The information given here should be used as a guide. A variation in growth of any nozzle from the formulation is possible due to cooling conditions or mold configuration. It is advisable to allow a margin of safety. For some very critical applications, an empirical factor may have to be obtained.

# AFS-100-G/H HSN

The "AFS" Absolute Flow Style HSN - 100 Series Hot Sprue Nozzle utilizes a Ø.375 resin feed. The **"G" Style Nozzle** is engineered for general purpose resins and the **"H" Style Nozzle** is engineered for the toughest High Heat / Heat Sensitive Resins.

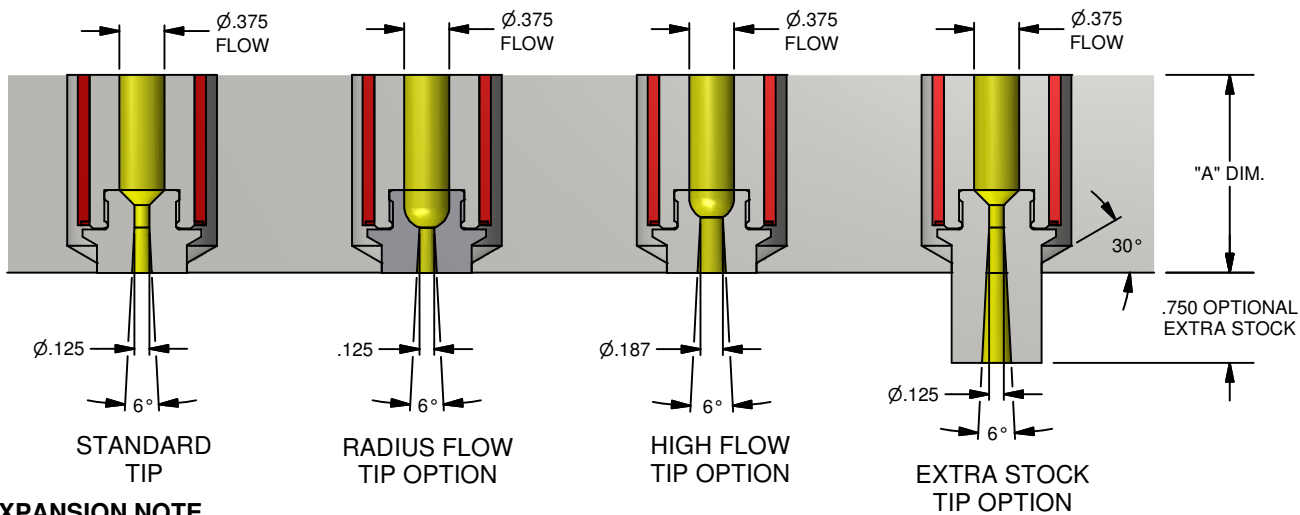
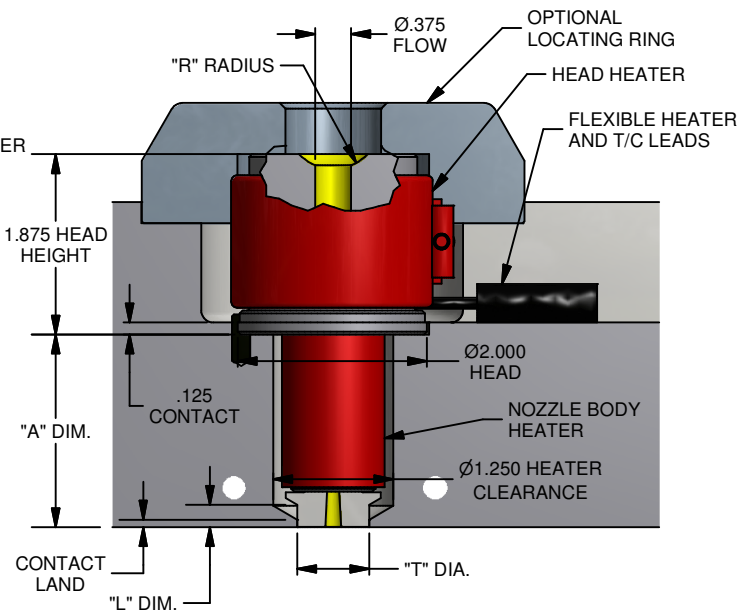
## "G" STYLE

### For Processing Temps (<500°F)



## "H" STYLE

### For Processing Temps (>500 °F)



### THERMAL EXPANSION NOTE

"AA" DIM. = "A" DIM. + THERMAL EXPANSION

EXPANSION = "A" DIM. X .00000633 X (PROCESSING TEMP. - 68°F)

NOZZLE TYPE	"A" DIM.	STYLE	"T" TIP	"L" LAND	"O" GATE	"R" RADIUS
-------------	----------	-------	---------	----------	----------	------------

**A F S 1 0**

11

11

7

## HOW TO ORDER:

Specify dimensions by completing the following chart.

**Call:**

**1-800-499-OSCO**

1.375" = <b>13</b>	3.375" = <b>33</b>
1.875" = <b>18</b>	3.500" = <b>35</b>
2.000" = <b>20</b>	4.000" = <b>40</b>
2.375" = <b>23</b>	4.500" = <b>45</b>
2.500" = <b>25</b>	5.000" = <b>50</b>
2.875" = <b>28</b>	6.000" = <b>60</b>
3.000" = <b>30</b>	7.000" = <b>70</b>

**G** = Style  
**H** = Style

5 = Ø.500  
7 = Ø.750  
1 = Ø1.000

Std. = **S**  
Extra  
Stock = **X**

**12 = Ø.125**  
**18 = Ø.187**

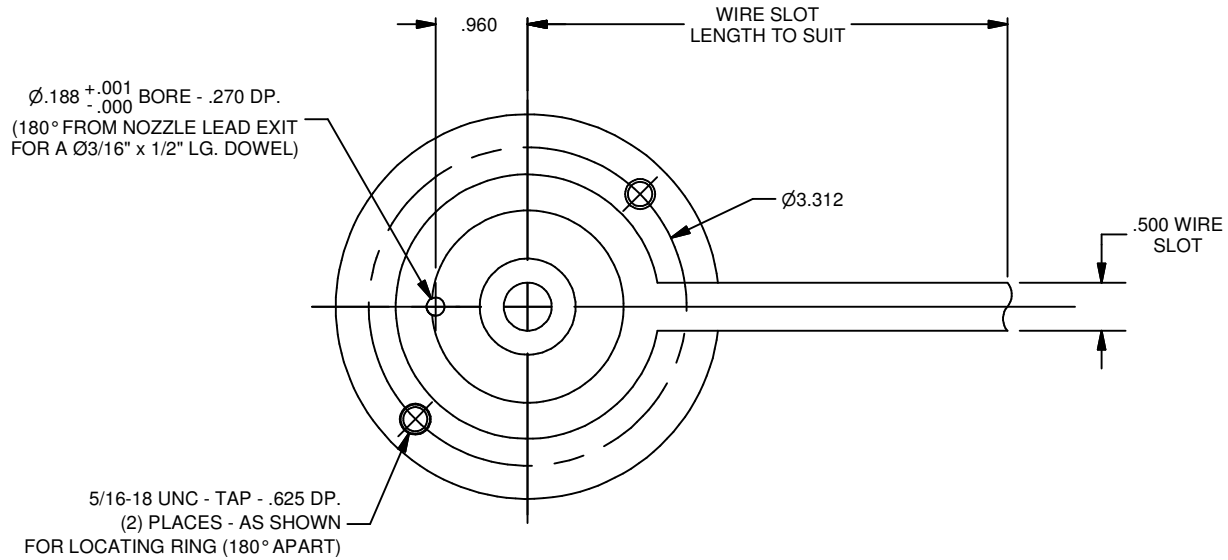
$$\begin{aligned} 1/2 &= 5 \\ 3/4 &= 7 \end{aligned}$$

*Specify resin to be processed.*

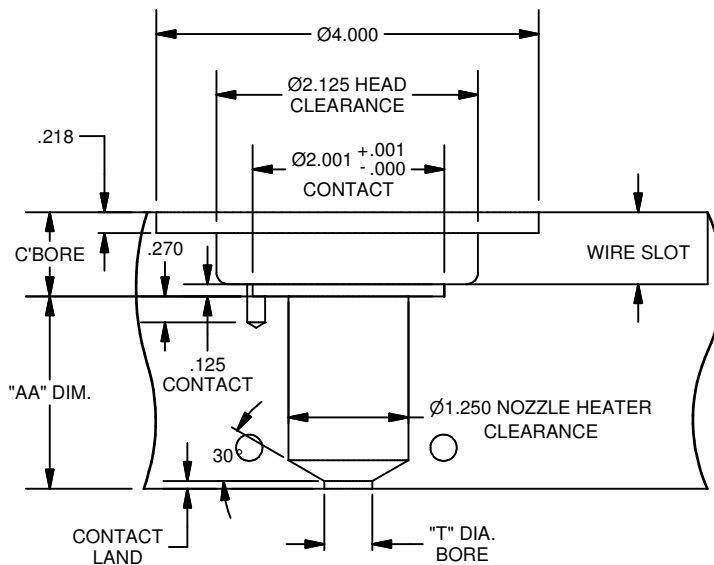
*NOTE: For sizes other than shown, please contact Osco Tech Service.*

\* *Note: The information given here should be used as a guide. A variation in growth of any nozzle from the formulation is possible due to cooling conditions or mold configuration. It is advisable to allow a margin of safety. For some very critical applications, an empirical factor may have to be obtained.*

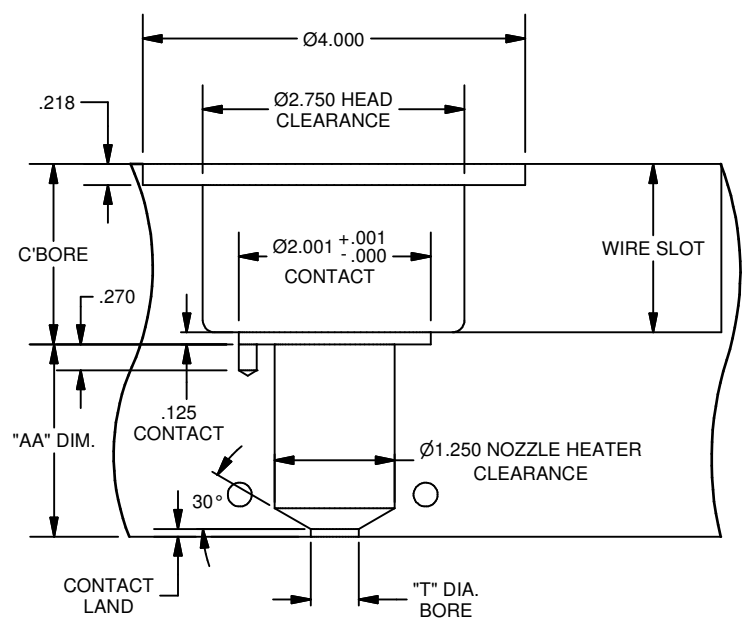
# AFS-100-G/H BORING



## "G" STYLE BORING INFORMATION



## "H" STYLE BORING INFORMATION



### THERMAL EXPANSION NOTE

"AA" DIM. = "A" DIM. + THERMAL EXPANSION

$$\text{EXPANSION} = \text{"A" DIM.} \times .00000633 \times (\text{PROCESSING TEMP.} - 68^{\circ}\text{F})$$

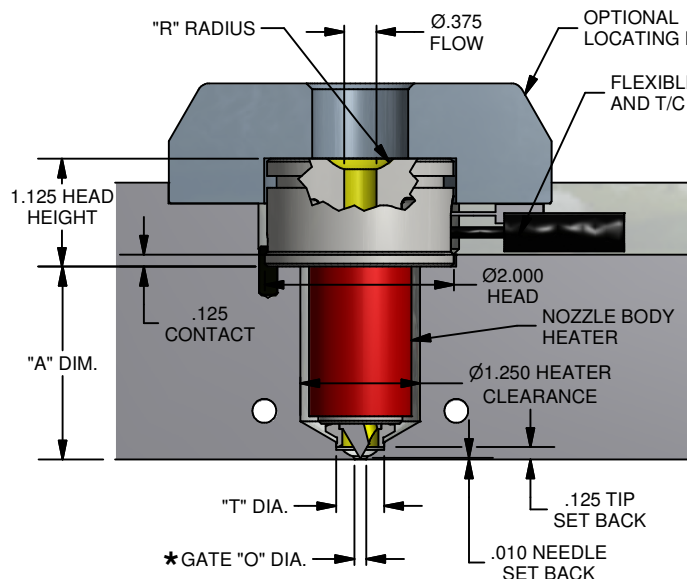
TIP INFORMATION		BORING INFORMATION	
"T" DIA.	"L" DIM.	"T" DIA. +.0005 BORE -.0000	CONTACT LAND
.500	.125	.5005	.060
.750	.230	.7505	.080
1.000	.150	1.0005	.150

\* *Note: The information given here should be used as a guide. A variation in growth of any nozzle from the formulation is possible due to cooling conditions or mold configuration. It is advisable to allow a margin of safety. For some very critical applications, an empirical factor may have to be obtained.*

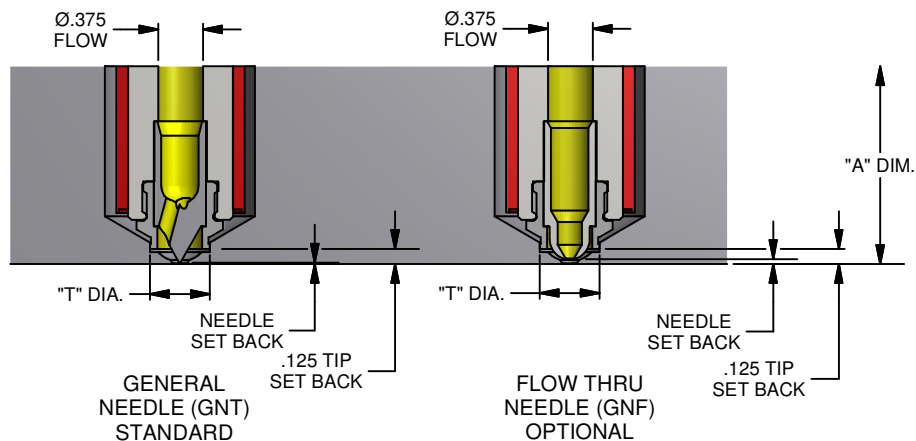
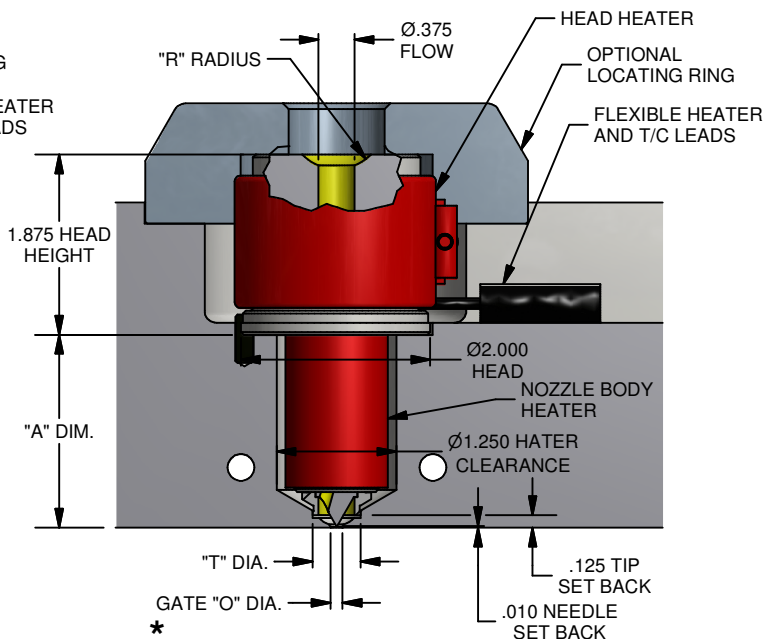
# BLS-100-G/H HSN

The "BLS" Body Less Style HSN - 100 Series Hot Sprue Nozzle utilizes a Ø.375 resin bore. The **"G" Style Nozzle** is engineered for general purpose resins and the **"H" Style Nozzle** is engineered for the toughest High Heat / Heat Sensitive Resins.

**"G" STYLE**  
For Processing Temps (<500°F)



**"H" STYLE**  
For Processing Temps (>500°F)



## THERMAL EXPANSION NOTE

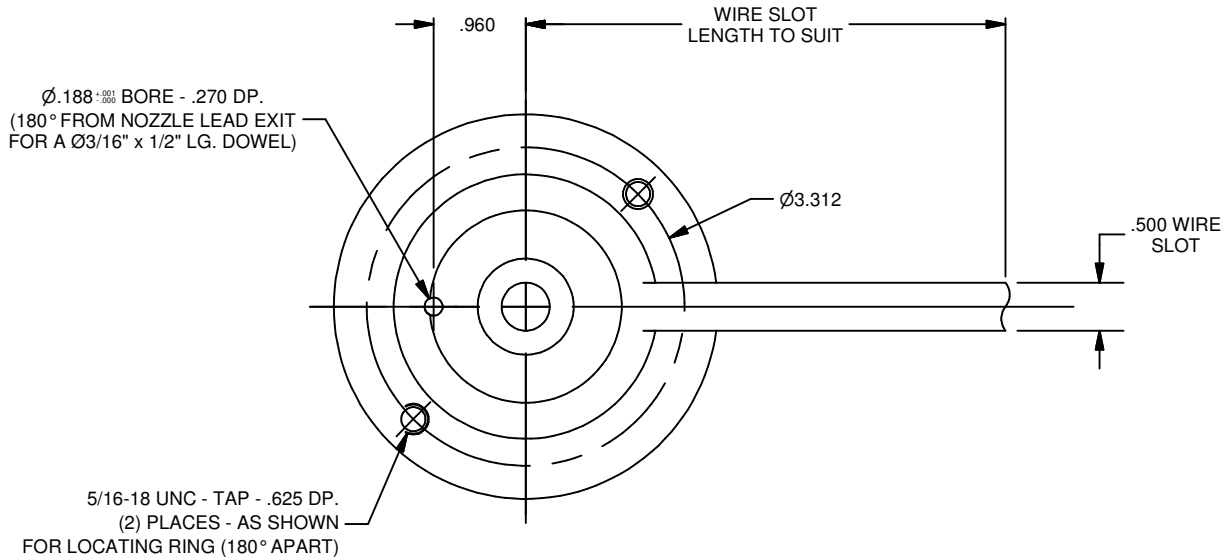
"AA" DIM. = "A" DIM. + THERMAL EXPANSION  
EXPANSION = "A" DIM. X .0000633 X (PROCESSING TEMP. - 68°F)

NOZZLE TYPE	"A" DIM.	STYLE	"O" GATE	"R" RADIUS
<b>B</b> <b>L</b> <b>S</b> <b>1</b> <b>0</b>	<input type="text"/> <input type="text"/>	<input type="text"/>	<input type="text"/> <input type="text"/>	<input type="text"/>
<b>HOW TO ORDER:</b> Specify dimensions by completing the following chart. Call: <b>1-800-499-OSCO</b>	1.375" = <b>13</b> 1.875" = <b>18</b> 2.000" = <b>20</b> 2.375" = <b>23</b> 2.500" = <b>25</b> 2.875" = <b>28</b> 3.000" = <b>30</b>	3.375" = <b>33</b> 3.500" = <b>35</b> 4.000" = <b>40</b> 4.500" = <b>45</b> 5.000" = <b>50</b> 6.000" = <b>60</b> 7.000" = <b>70</b>	G = Style H = Style	Specify "O" * .050 MIN. .125 MAX.
				1/2 = <b>5</b> 3/4 = <b>7</b>
				<input type="text"/> Specify resin to be processed.

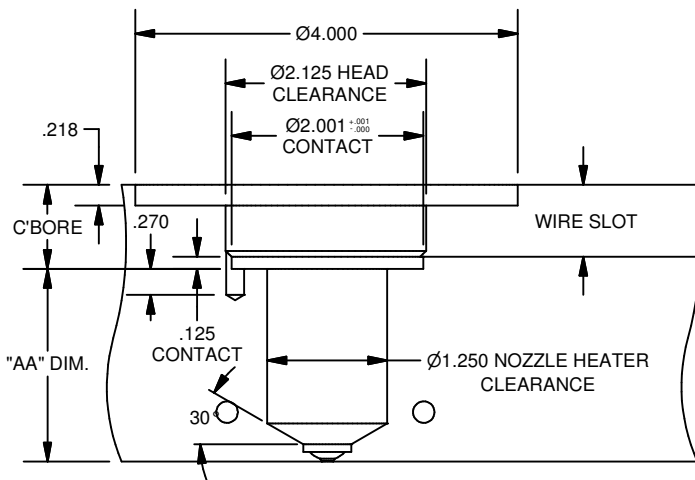
NOTE: For sizes other than shown, please contact Osco Tech Service.



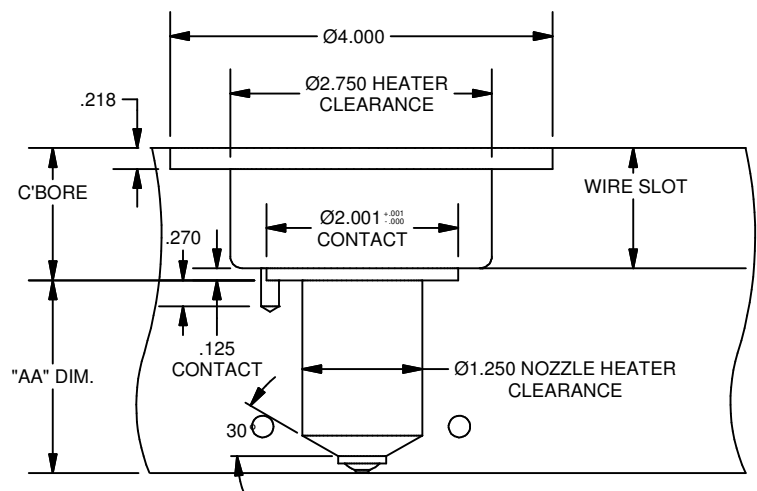
# BLS-100-G/H BORING



## "G" STYLE BORING INFORMATION

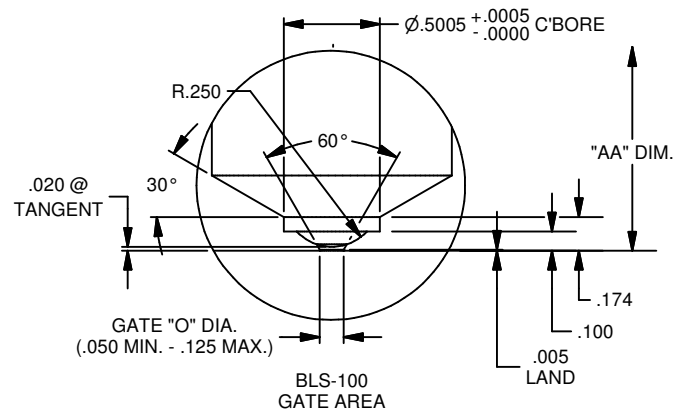


## "H" STYLE BORING INFORMATION



### THERMAL EXPANSION NOTE

"AA" DIM. = "A" DIM. + THERMAL EXPANSION  
 EXPANSION = "A" DIM. X .0000633 X (PROCESSING TEMP. - 68°F)  
 (DUE TO THE BODY LESS NOZZLE DESIGN, THERMAL EXPANSION DOES NOT NEED TO BE CONSIDERED FOR STD. NOZZLE LENGTH)



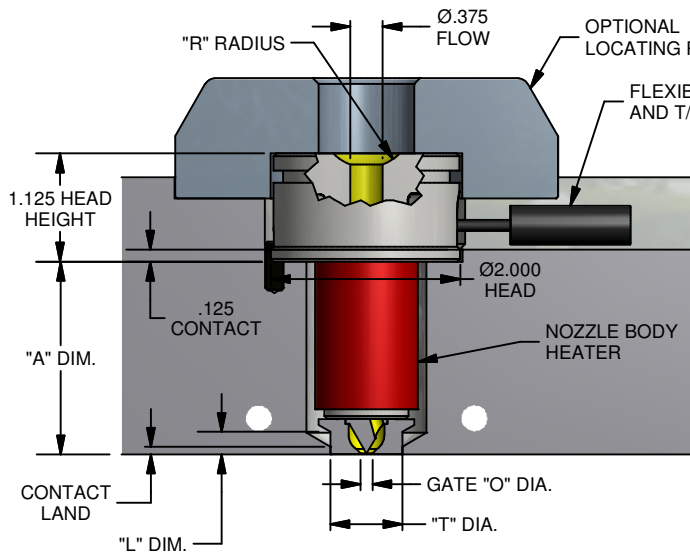
\* Note: The information given here should be used as a guide. A variation in growth of any nozzle from the formulation is possible due to cooling conditions or mold configuration. It is advisable to allow a margin of safety. For some very critical applications, an empirical factor may have to be obtained.

# FBS-100-G/H HSN

The "FBS" Full Body Style HSN - 100 Series Hot Sprue Nozzle utilizes a Ø.375 resin bore. The **"G" Style Nozzle** is engineered for general purpose resins and the **"H" Style Nozzle** is engineered for the toughest High Heat / Heat Sensitive Resins.

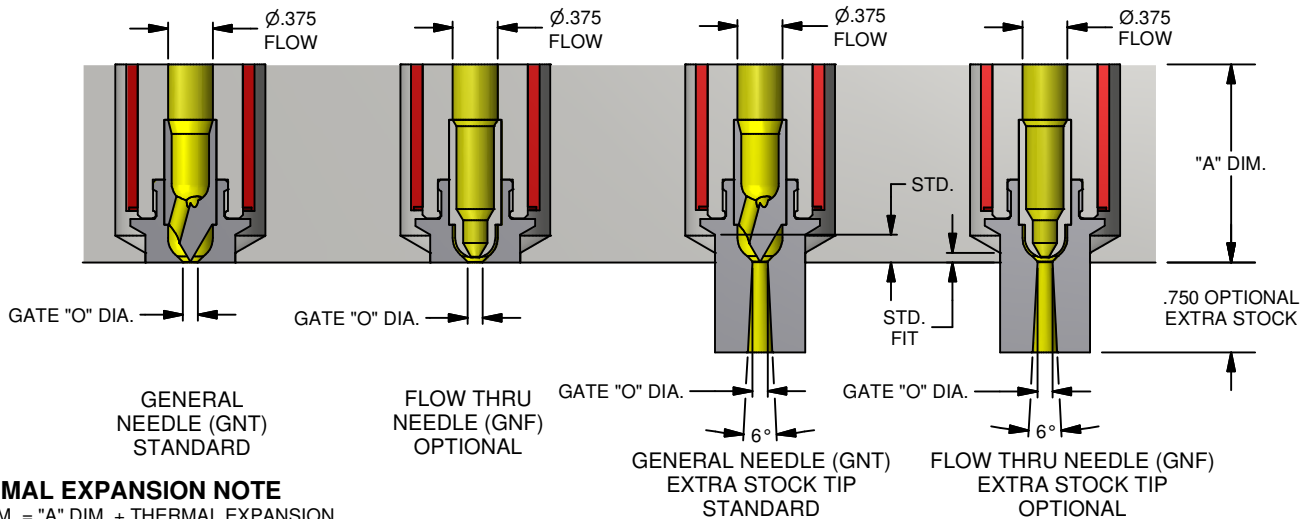
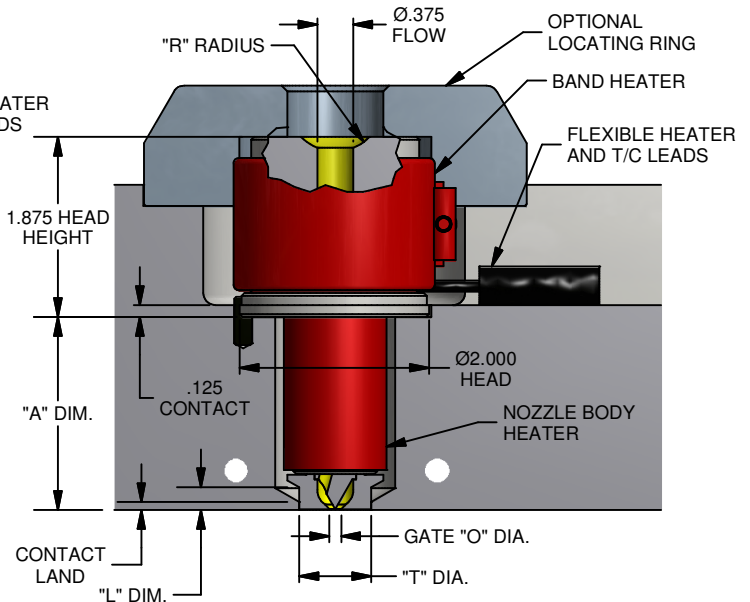
## "G" STYLE

For Processing Temps (<500°F)



## "H" STYLE

For Processing Temps (>500°F)



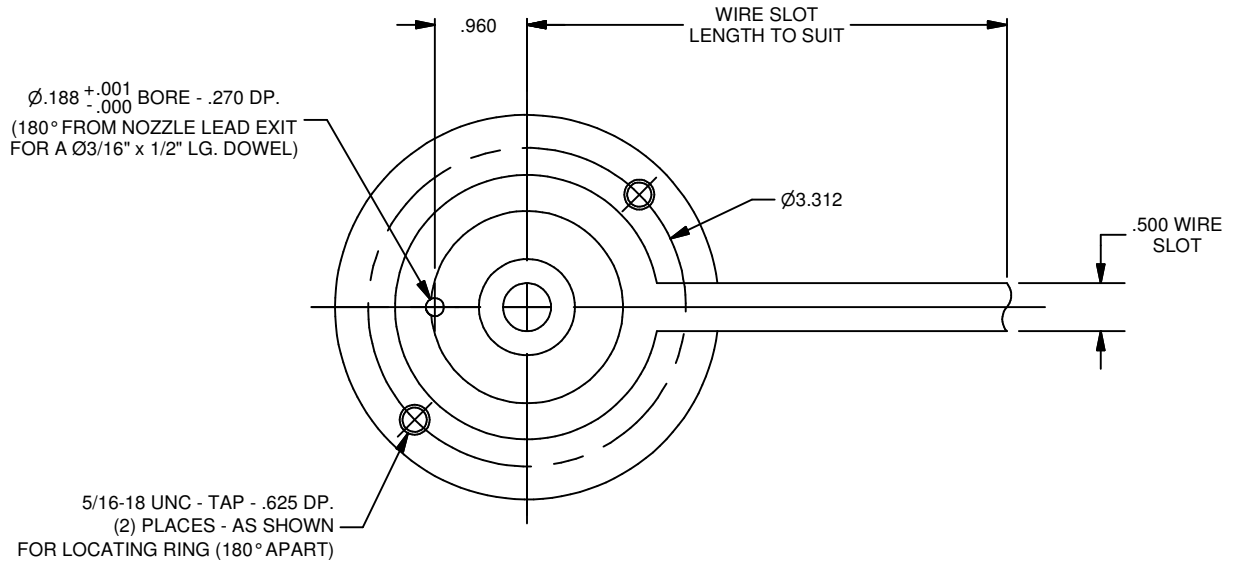
### THERMAL EXPANSION NOTE

"AA" DIM. = "A" DIM. + THERMAL EXPANSION  
EXPANSION = "A" DIM. X .00000633 X (PROCESSING TEMP. - 68°F)

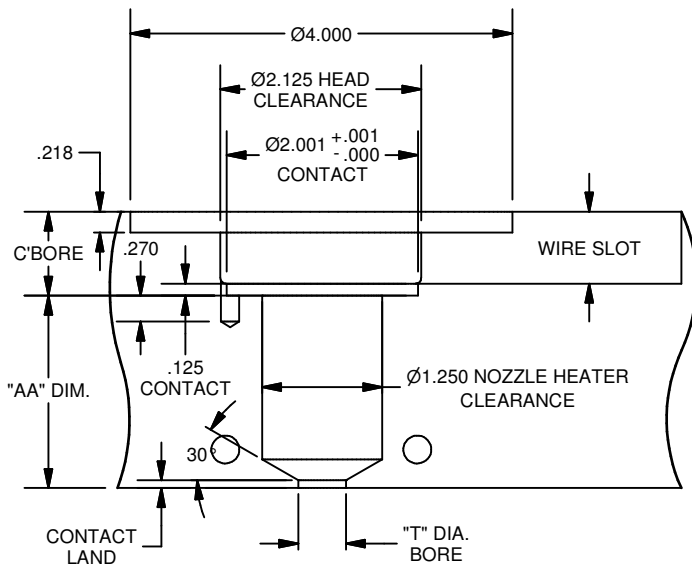
NOZZLE TYPE	"A" DIM.	STYLE	"T" TIP	"L" LAND	"O" GATE	"R" RADIUS
<b>F</b> <b>B</b> <b>S</b> <b>1</b> <b>0</b>	<input type="text"/> <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/> <input type="text"/>	<input type="text"/>
<b>HOW TO ORDER:</b> Specify dimensions by completing the following chart. <b>Call:</b> <b>1-800-499-OSCO</b>	1.375" = 13 1.875" = 18 2.000" = 20 2.375" = 23 2.500" = 25 2.875" = 28 3.000" = 30	3.375" = 33 3.500" = 35 4.000" = 40 4.500" = 45 5.000" = 50 6.000" = 60 7.000" = 70	G = Style H = Style  5 = Ø.500 7 = Ø.750 1 = Ø1.000	Std.=S Extra Stock=X	05 = Ø.050 08 = Ø.080 12 = Ø.125	1/2 = 5 3/4 = 7
				<input type="text"/>		Specify resin to be processed.

NOTE: For sizes other than shown, please contact Osco Tech Service.

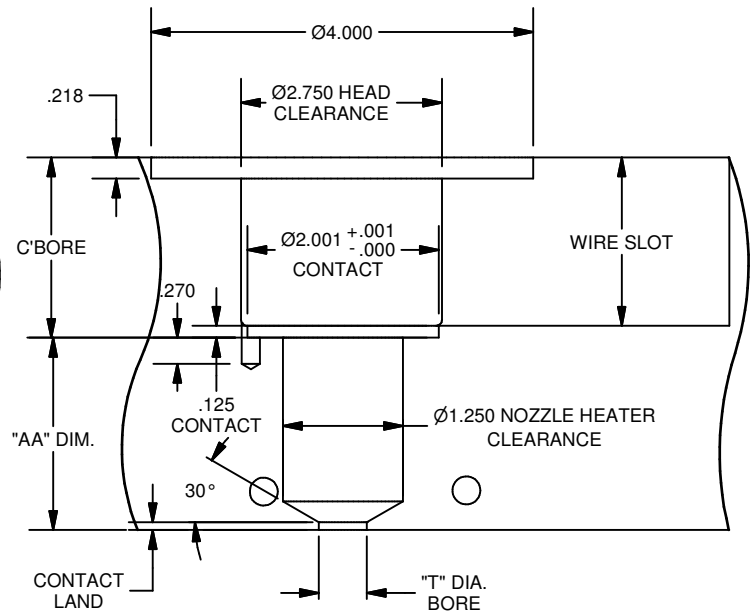
# FBS-100-G/H BORING



## "G" STYLE BORING INFORMATION



## "H" STYLE BORING INFORMATION



### THERMAL EXPANSION NOTE

"AA" DIM. = "A" DIM. + THERMAL EXPANSION  
EXPANSION = "A" DIM. X .00000633 X (PROCESSING TEMP. - 68 °F)

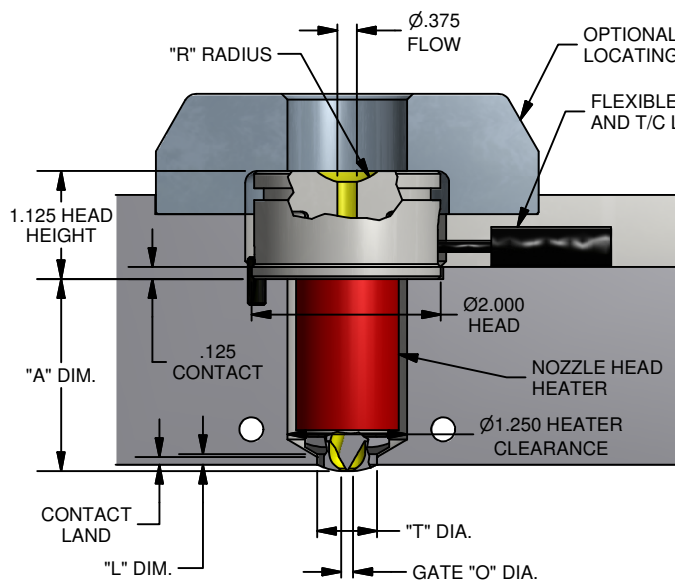
TIP INFORMATION		BORING INFORMATION	
"T" DIA.	"L" DIM.	"T" DIA. $^{+.0005}_{-.0000}$ BORE	CONTACT LAND
.500	.125	.5005	.060
.750	.230	.7505	.080
1.000	.150	1.0005	.150

\* Note: The information given here should be used as a guide. A variation in growth of any nozzle from the formulation is possible due to cooling conditions or mold configuration. It is advisable to allow a margin of safety. For some very critical applications, an empirical factor may have to be obtained.

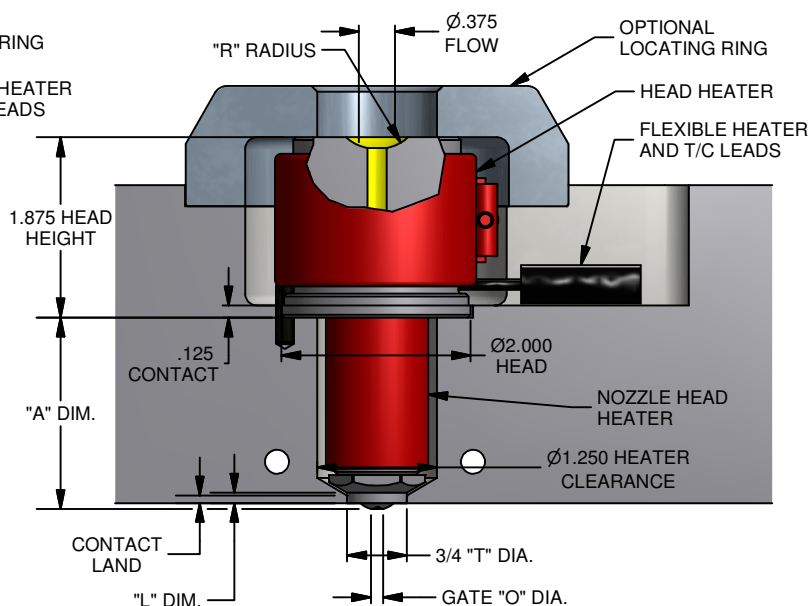
# RGS-100-G/H HSN

The "RGS" Recessed Gate Full Body Style HSN - 100 Series Hot Sprue Nozzle utilizes a  $\varnothing.375$  resin bore. The **"G" Style Nozzle** is engineered for general purpose resins and the **"H" Style Nozzle** is engineered for the toughest High Heat / Heat Sensitive Resins.

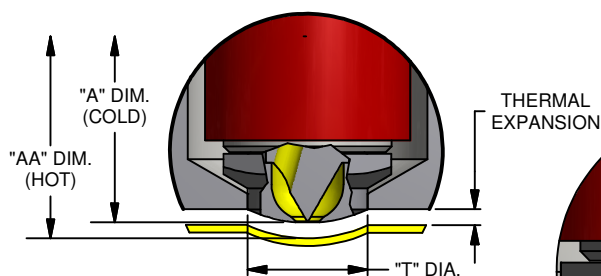
**"G" STYLE**  
For Processing Temps (<500°F)



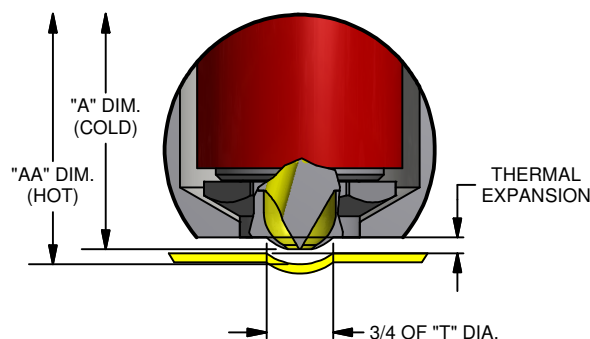
**"H" STYLE**  
For Processing Temps (>500°F)



**FULL TIP RADIUS**



**PARTIAL TIP RADIUS**



## THERMAL EXPANSION NOTE

"AA" DIM. = "A" DIM. + THERMAL EXPANSION

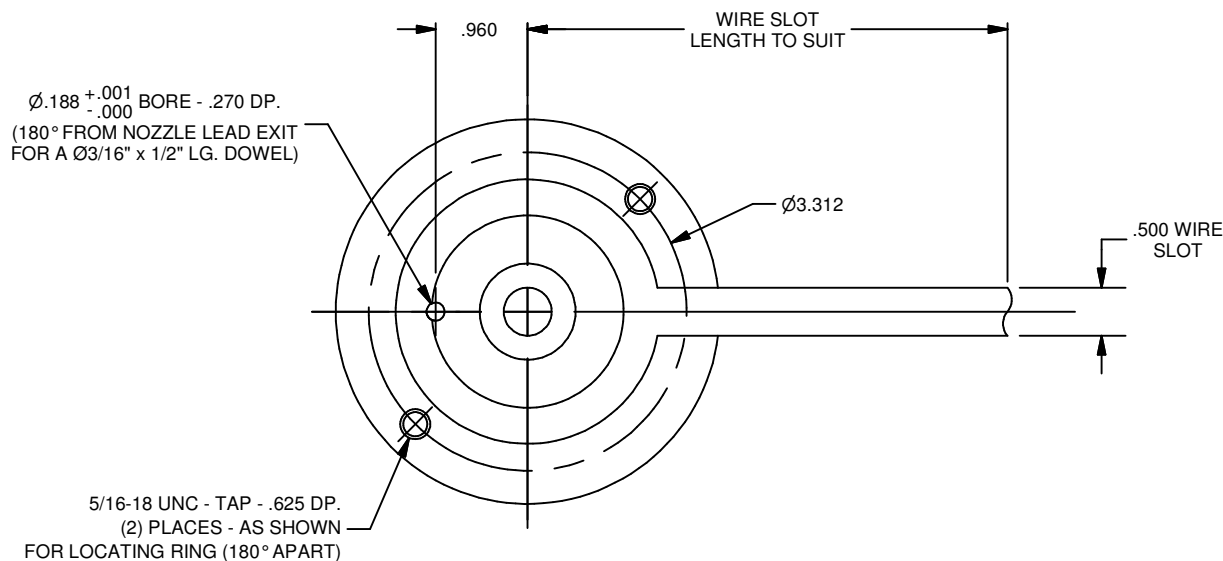
EXPANSION = "A" DIM. X .00000633 X (PROCESSING TEMP. - 68°F)

## SHOWN HOT

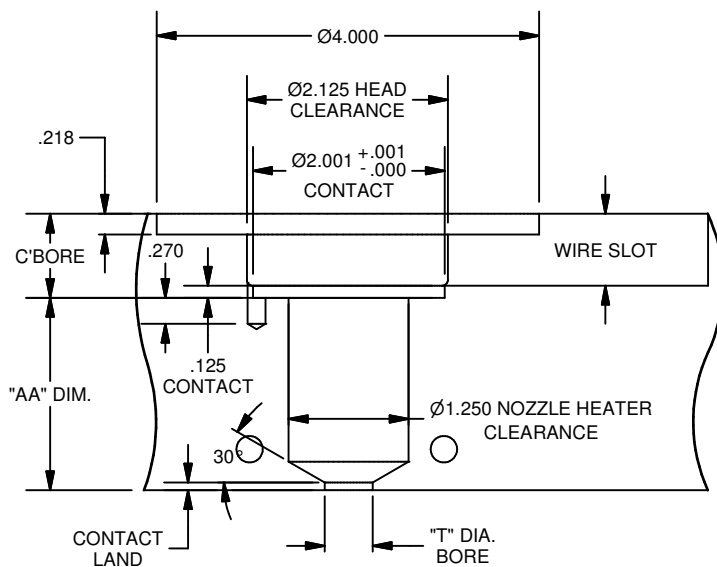
NOZZLE TYPE	"A" DIM.	STYLE	"T" TIP	DIMPLE	"O" GATE	"R" RADIUS
R G S 1 0	<input type="text"/> <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/> <input type="text"/>	<input type="text"/>
<b>HOW TO ORDER:</b> Specify dimensions by completing the following chart. <b>Call:</b> <b>1-800-499-OSCO</b>	1.375" = 13 1.875" = 18 2.000" = 20 2.375" = 23 2.500" = 25 2.875" = 28 3.000" = 30	3.375" = 33 3.500" = 35 4.000" = 40 4.500" = 45 5.000" = 50 6.000" = 60 7.000" = 70	G = Style H = Style  5 = $\varnothing.500$ 7 = $\varnothing.750$ 1 = $\varnothing 1.000$	F = "T" DIA. P = 3/4 OF "T" DIA.	05 = $\varnothing.050$ 08 = $\varnothing.080$ 12 = $\varnothing.125$	1/2 = 5 3/4 = 7
				<input type="text"/>		Specify resin to be processed.

NOTE: For sizes other than shown, please contact Osco Tech Service.

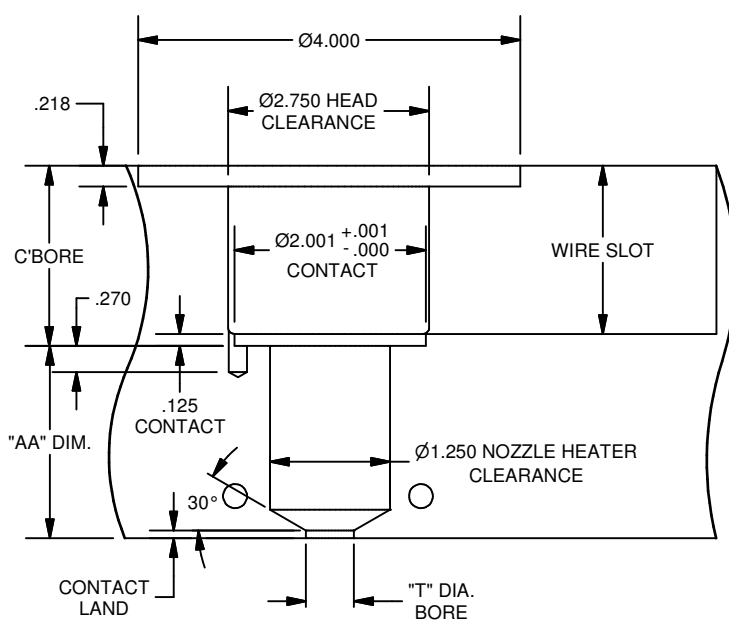
# RGS-100-G/H BORING



## "G" STYLE BORING INFORMATION



## "H" STYLE BORING INFORMATION



### THERMAL EXPANSION NOTE

"AA" DIM. = "A" DIM. + THERMAL EXPANSION  
EXPANSION = "A" DIM. X .00000633 X (PROCESSING TEMP. - 68°F)

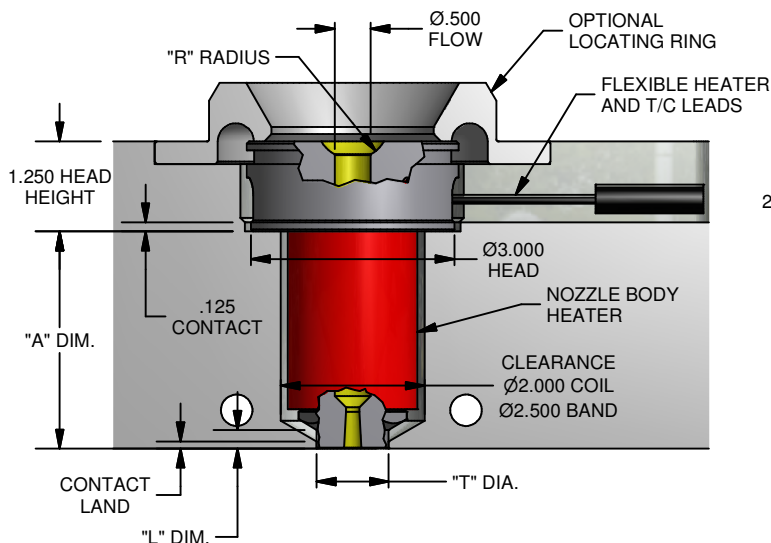
TIP INFORMATION		BORING INFORMATION	
"T" DIA.	"L" DIM.	"T" DIA. $^{+.0005}_{-.0000}$ BORE	CONTACT LAND
.500	.125	.5005	.040 MIN.
.750	.230	.7505	.040 MIN.
1.000	.150	1.0005	.040 MIN.

\* Note: The information given here should be used as a guide. A variation in growth of any nozzle from the formulation is possible due to cooling conditions or mold configuration. It is advisable to allow a margin of safety. For some very critical applications, an empirical factor may have to be obtained.

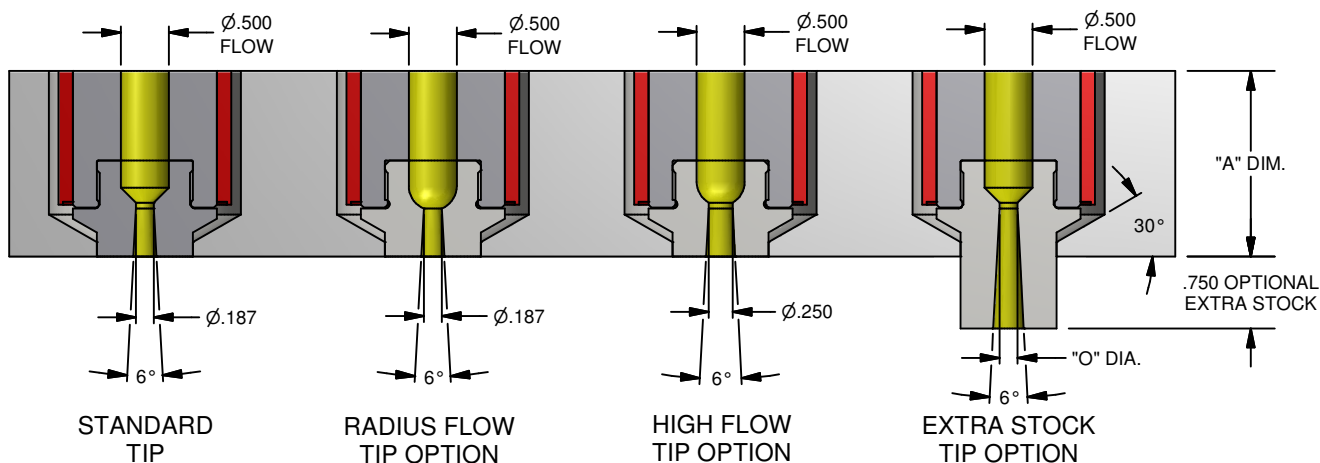
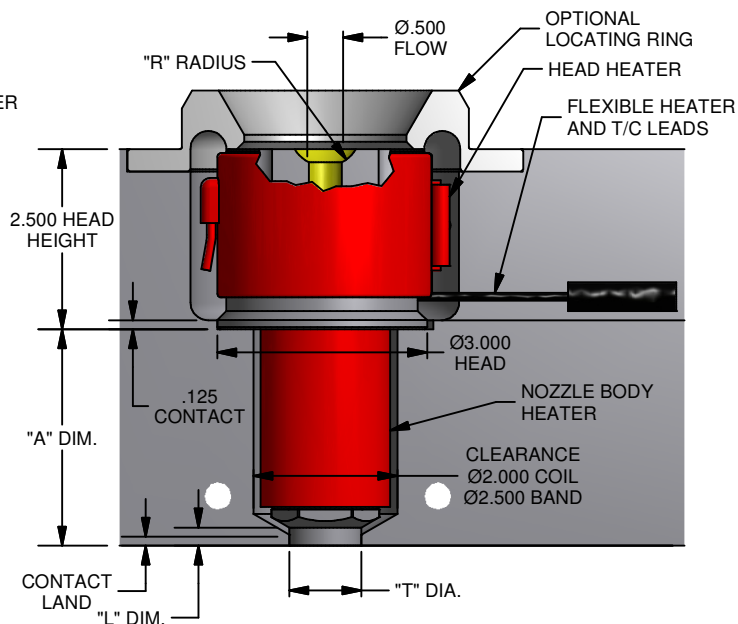
# AFS-200-G/H HSN

The "AFS" Absolute Flow Style HSN - 200 Series Hot Sprue Nozzle utilizes a Ø.500 resin bore. The **"G" Style Nozzle** is engineered for general purpose resins and the **"H" Style Nozzle** is engineered for the toughest High Heat / Heat Sensitive Resins.

**"G" STYLE**  
For Processing Temps (<500°F)



**"H" STYLE**  
For Processing Temps (>500°F)



## THERMAL EXPANSION NOTE

"AA" DIM. = "A" DIM. + THERMAL EXPANSION

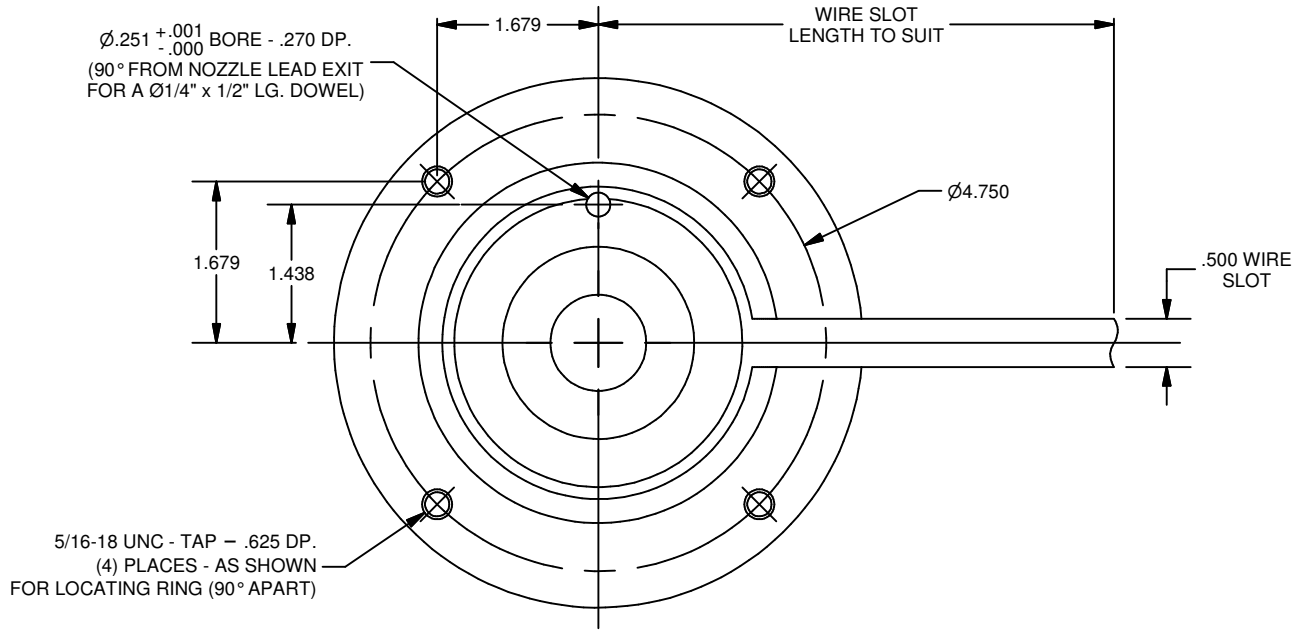
EXPANSION = "A" DIM. X .00000633 X (PROCESSING TEMP. - 68 °F)

NOZZLE TYPE	"A" DIM.	STYLE	"T" TIP	"L" LAND	"O" GATE	"R" RADIUS	BODY HEATER
<b>A F S 2 0</b>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<b>HOW TO ORDER:</b> Specify dimensions by completing the following chart. <b>Call: 1-800-499-OSCO</b>							
3.000" = <b>30</b>	7.000" = <b>70</b>	<b>G</b> = Style	<b>7</b> = Ø.750	Std. = <b>S</b>	<b>18</b> = Ø.187	<b>1/2</b> = <b>5</b>	<b>MC</b> = MINI-COIL
4.000" = <b>40</b>	8.000" = <b>80</b>	<b>H</b> = Style	<b>1</b> = Ø1.000	Extra = <b>X</b>	<b>25</b> = Ø.250	<b>3/4</b> = <b>7</b>	<b>B</b> = BAND
5.000" = <b>50</b>	9.000" = <b>90</b>						
6.000" = <b>60</b>	10.000" = <b>10</b>						
<input type="text"/> Specify resin to be processed.							

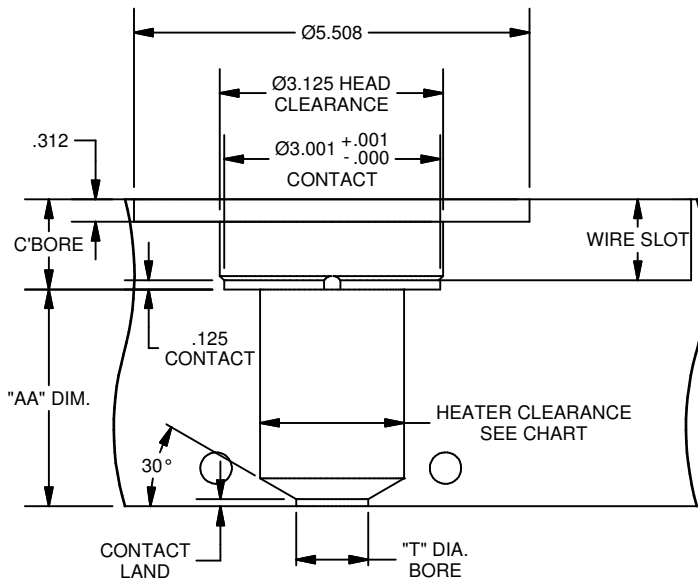
NOTE: For sizes other than shown, please contact Osco Tech Service.



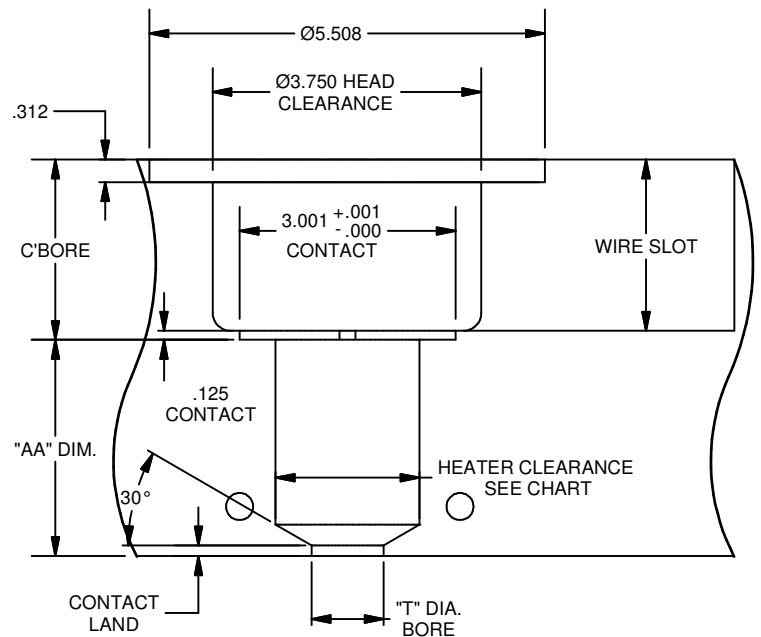
# AFS-200-G/H BORING



## "G" STYLE BORING INFORMATION



## "H" STYLE BORING INFORMATION



### THERMAL EXPANSION NOTE

"AA" DIM. = "A" DIM. + THERMAL EXPANSION  
 EXPANSION = "A" DIM. X .00000633 X (PROCESSING TEMP. - 68°F)

TIP INFORMATION		BORING INFORMATION	
"T" DIA.	"L" DIM.	"T" DIA. +.0005 BORE -.0000	CONTACT LAND
.750	.187	.7505	.100
1.000	.250	1.0005	.150

BODY HEATER	CLEARANCE REQUIRED
"MC" MINI COIL HEATER	2.000 DIA.
"BH" BAND HEATER	2.500 DIA.

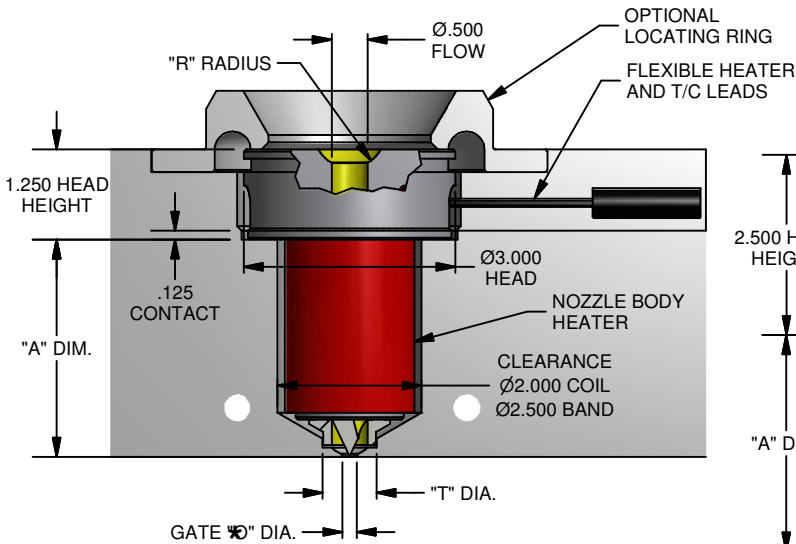
\* Note: The information given here should be used as a guide. A variation in growth of any nozzle from the formulation is possible due to cooling conditions or mold configuration. It is advisable to allow a margin of safety. For some very critical applications, an empirical factor may have to be obtained.

# BLS-200-G/H HSN

The "BLS" Body Less Style HSN - 200 Series Hot Sprue Nozzle utilizes a Ø.500 resin bore. The **"G" Style Nozzle** is engineered for general purpose resins and the **"H" Style Nozzle** is engineered for the toughest High Heat / Heat Sensitive Resins.

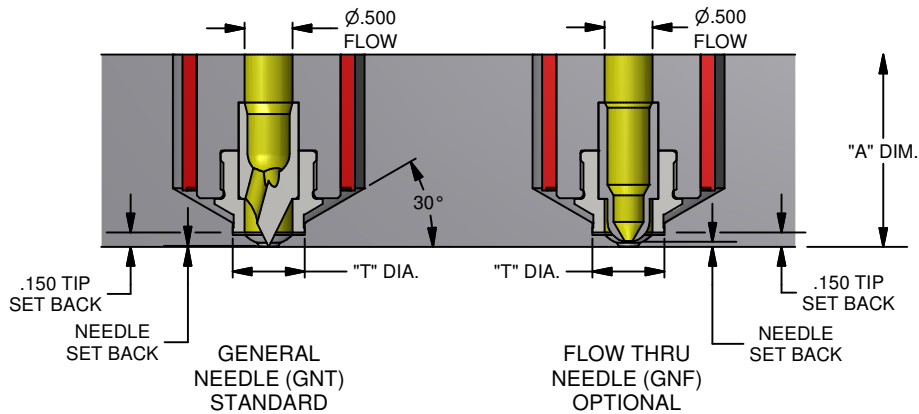
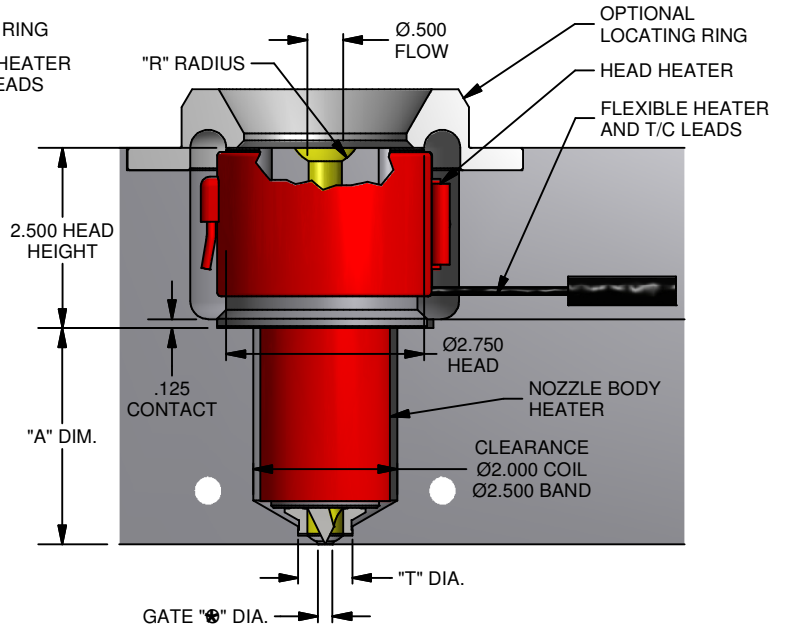
## "G" STYLE

For Processing Temps (<500 °F)



## "H" STYLE

For Processing Temps (>500°F)



### THERMAL EXPANSION NOTE

"AA" DIM. = "A" DIM. + THERMAL EXPANSION

EXPANSION = "A" DIM. X .00000633 X (PROCESSING TEMP. - 68°F)

NOZZLE TYPE	"A" DIM.	STYLE	"O" GATE	"R" RADIUS	BODY HEATER
<div> <div>B</div> <div>L</div> <div>S</div> <div>2</div> <div>0</div> </div> <p><b>HOW TO ORDER:</b> Specify dimensions by completing the following chart.</p> <p><b>Call:</b> <b>1-800-499-OSCO</b></p>	<div> <div></div> <div></div> </div> <p>3.000" = <b>30</b> 4.000" = <b>40</b> 5.000" = <b>50</b> 6.000" = <b>60</b></p> <p>7.000" = <b>70</b> 8.000" = <b>80</b> 9.000" = <b>90</b> 10.000" = <b>10</b></p>	<div> <div></div> </div> <p><b>G</b> = Style <b>H</b> = Style</p>	<div> <div></div> <div></div> </div> <p>Specify "O" * MIN. = .080 MAX. = .200</p>	<div> <div></div> </div> <p>1/2 = <b>5</b> 3/4 = <b>7</b></p>	<div> <div></div> </div> <p><b>MC</b> = MINI-COIL <b>B</b> = BAND</p>
			<div> <div></div> </div> <p>Specify resin to be processed.</p>		

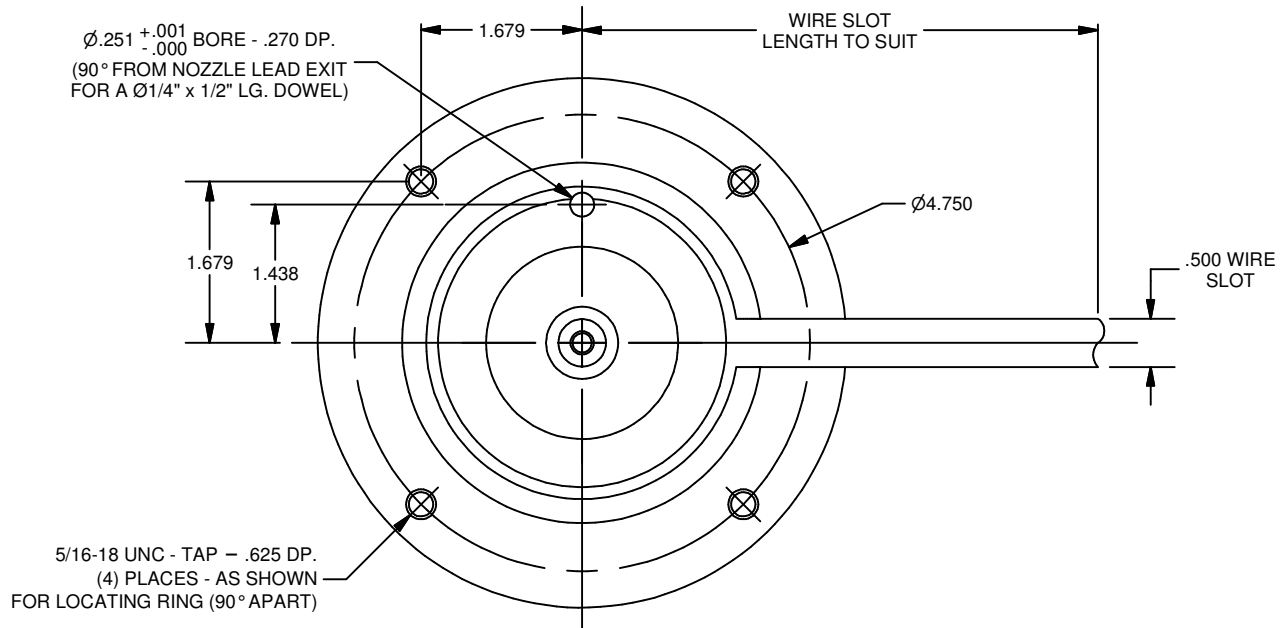
*NOTE: For sizes other than shown, please contact Osco Tech Service.*

33.0

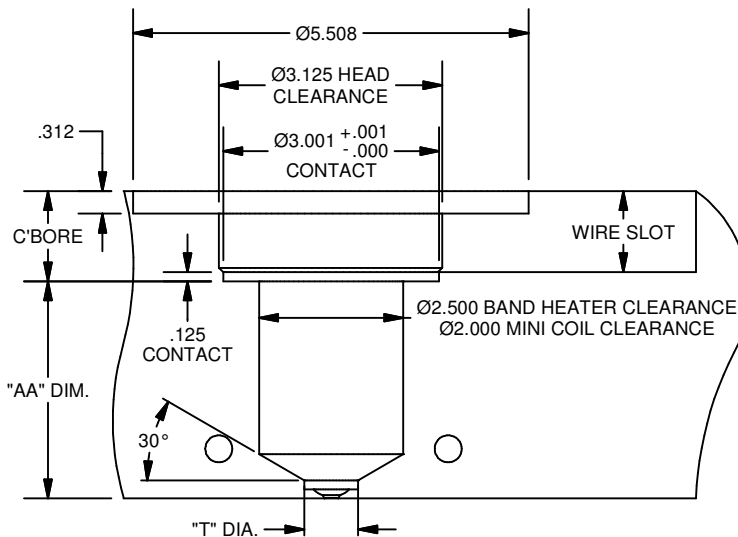
**OSCO<sup>®</sup> inc.**  
RUNNERLESS MOLDING SYSTEMS

\* Note: The information given here should be used as a guide. A variation in growth of any nozzle from the formulation is possible due to cooling conditions or mold configuration. It is advisable to allow a margin of safety. For some very critical applications, an empirical factor may have to be obtained.

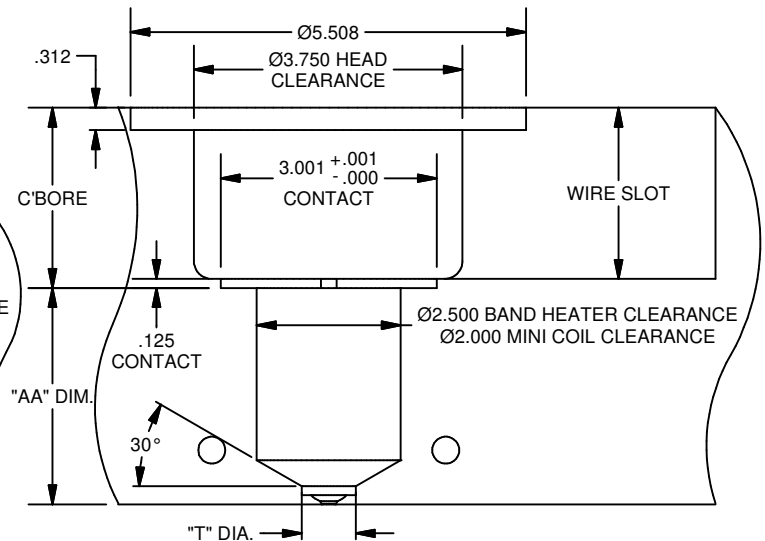
# BLS-200-G/H BORING



## "G" STYLE BORING INFORMATION

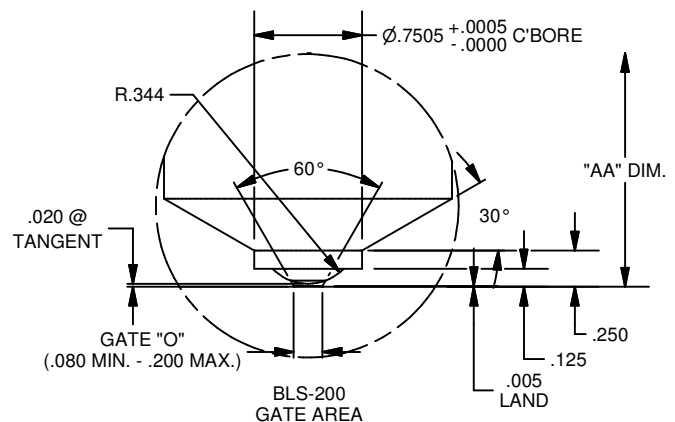


## "H" STYLE BORING INFORMATION



### THERMAL EXPANSION NOTE

"AA" DIM. = "A" DIM. + THERMAL EXPANSION  
 EXPANSION = "A" DIM. X .00000633 X (PROCESSING TEMP. - 68°F)  
 (DUE TO THE BODY LESS NOZZLE DESIGN, THERMAL EXPANSION DOES NOT NEED TO BE CONSIDERED FOR STD. NOZZLE LENGTH)



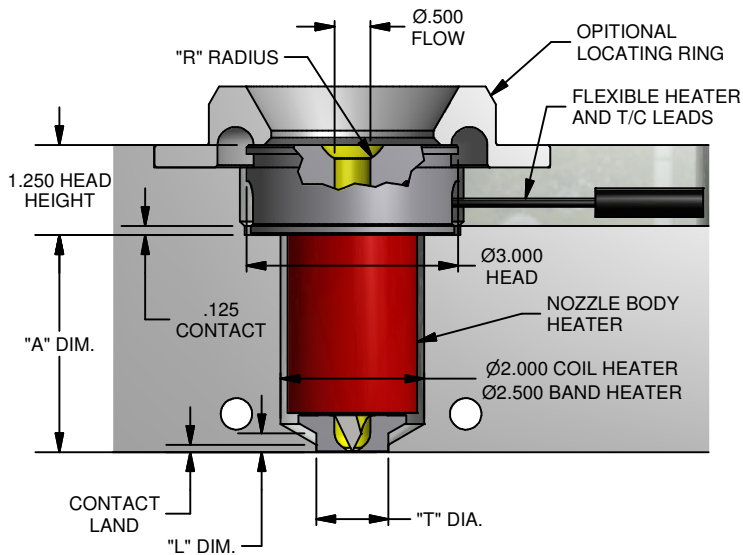
★ Note: The information given here should be used as a guide. A variation in growth of any nozzle from the formulation is possible due to cooling conditions or mold configuration. It is advisable to allow a margin of safety. For some very critical applications, an empirical factor may have to be obtained.

# FBS-200-G/H HSN

The "FBS" Full Body Style HSN - 200 Series Hot Sprue Nozzle utilizes a Ø.500 resin bore. The **"G" Style Nozzle** is engineered for general purpose resins and the **"H" Style Nozzle** is engineered for the toughest High Heat / Heat Sensitive Resins.

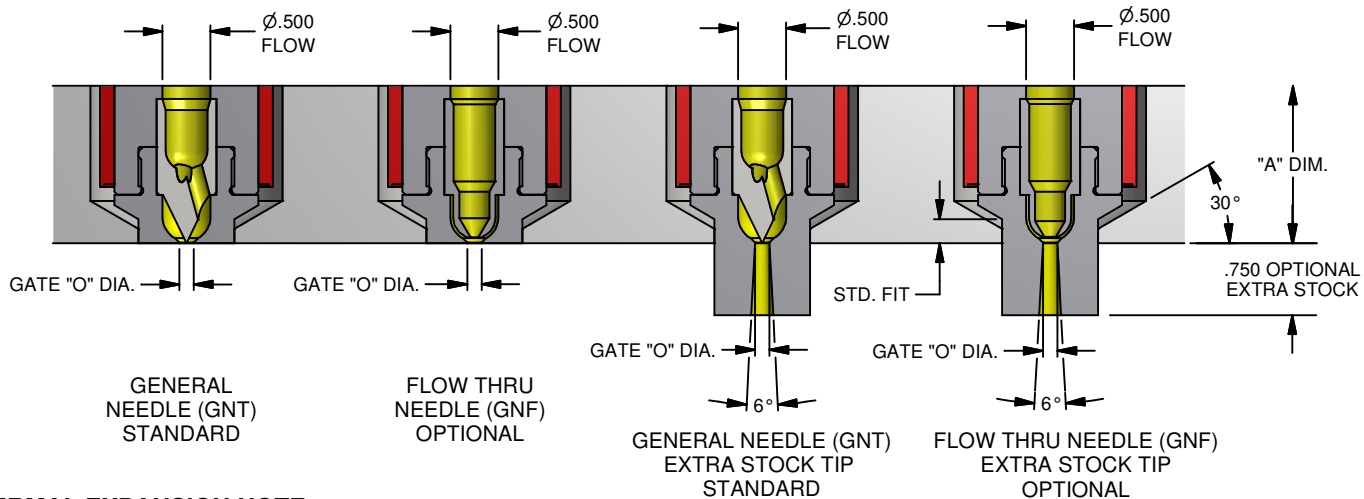
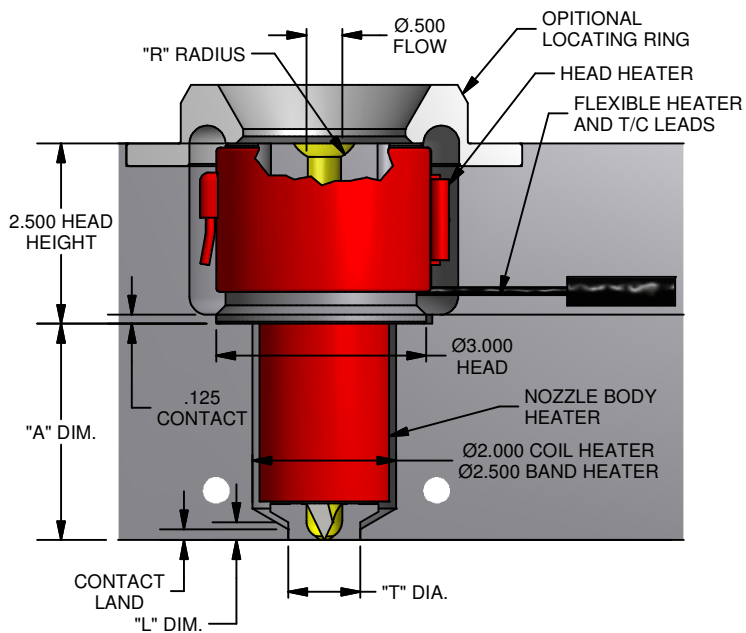
## "G" STYLE

For Processing Temps (<500°F)



## "H" STYLE

For Processing Temps (>500°F)



### THERMAL EXPANSION NOTE

"AA" DIM. = "A" DIM. + THERMAL EXPANSION

EXPANSION = "A" DIM. X .00000633 X (PROCESSING TEMP. - 68°F)

NOZZLE TYPE		"A" DIM.	STYLE	"T" TIP	"L" LAND	"O" GATE	"R" RADIUS	BODY HEATER
<b>F</b>	<b>B</b>	<b>S</b>	<b>2</b>	<b>0</b>				
<b>HOW TO ORDER:</b> Specify dimensions by completing the following chart. <b>Call:</b> <b>1-800-499-OSCO</b>		3.000" = <b>30</b> 4.000" = <b>40</b> 5.000" = <b>50</b> 6.000" = <b>60</b> 7.000" = <b>70</b> 8.000" = <b>80</b> 9.000" = <b>90</b> 10.000" = <b>10</b>	<b>G</b> = Style <b>H</b> = Style	<b>7</b> = Ø.750 <b>1</b> = Ø1.000	Std. = <b>S</b> Extra Stock = <b>X</b>	<b>12</b> = Ø.120 <b>15</b> = Ø.150	<b>1/2</b> = <b>5</b> <b>3/4</b> = <b>7</b>	<b>MC</b> = MINI-COIL <b>B</b> = BAND
					Specify resin to be processed.			

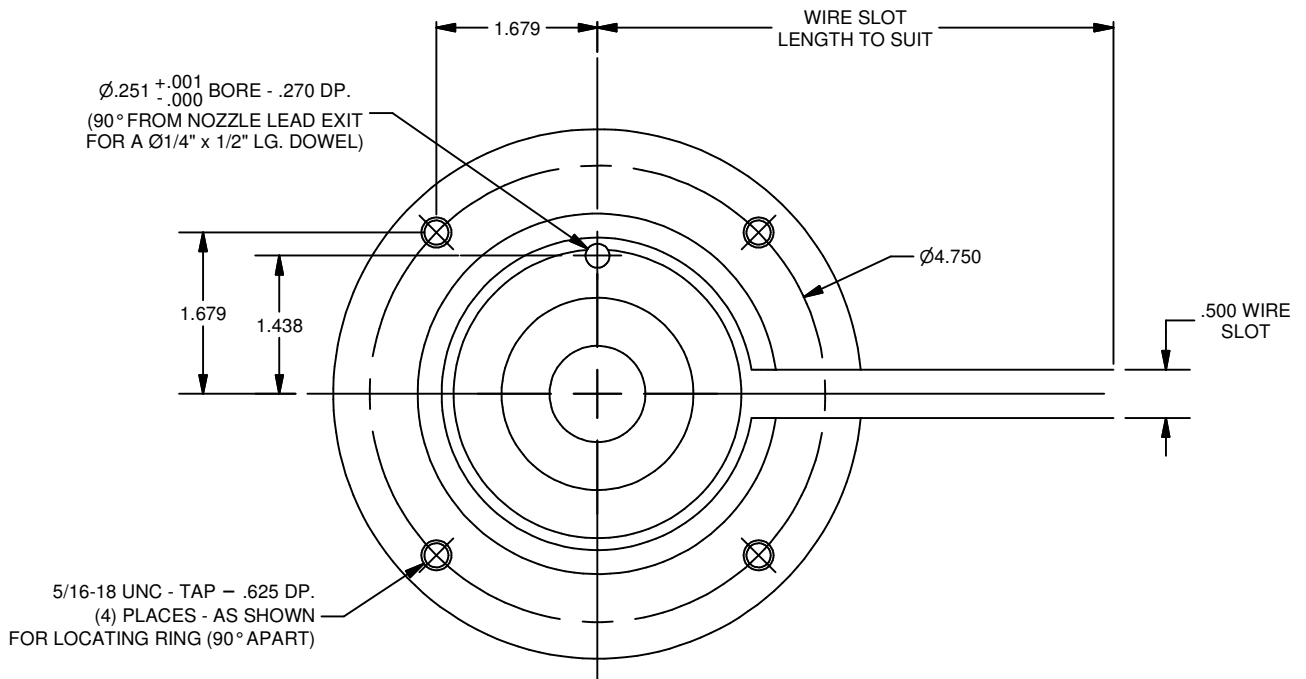
*NOTE: For sizes other than shown, please contact Osco Tech Service.*

35.0

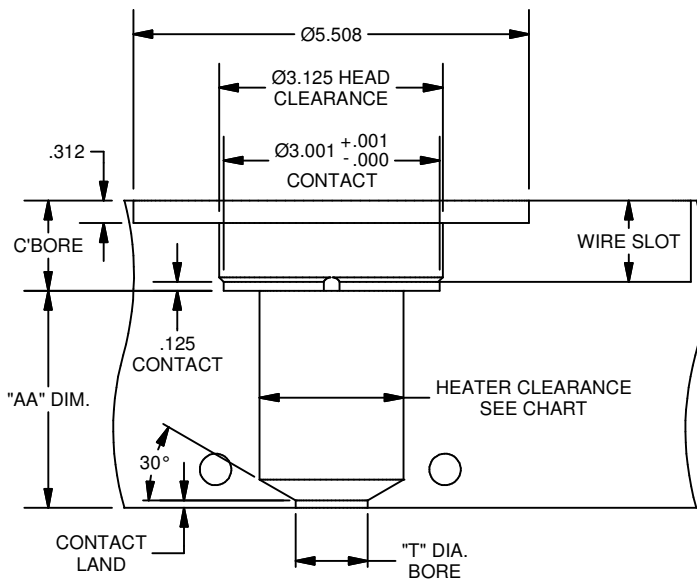
**OSCO<sup>o</sup> inc.**  
RUNNERLESS MOLDING SYSTEMS

\* *Note: The information given here should be used as a guide. A variation in growth of any nozzle from the formulation is possible due to cooling conditions or mold configuration. It is advisable to allow a margin of safety. For some very critical applications, an empirical factor may have to be obtained.*

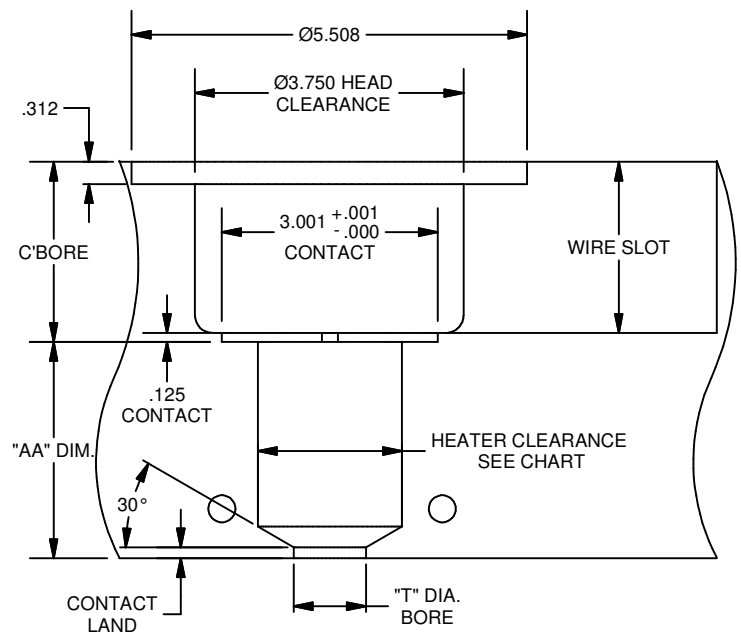
# FBS-200-G/H BORING



## "G" STYLE BORING INFORMATION



## "H" STYLE BORING INFORMATION



### THERMAL EXPANSION NOTE

"AA" DIM. = "A" DIM. + THERMAL EXPANSION  
EXPANSION = "A" DIM. X .00000633 X (PROCESSING TEMP. - 68°F)

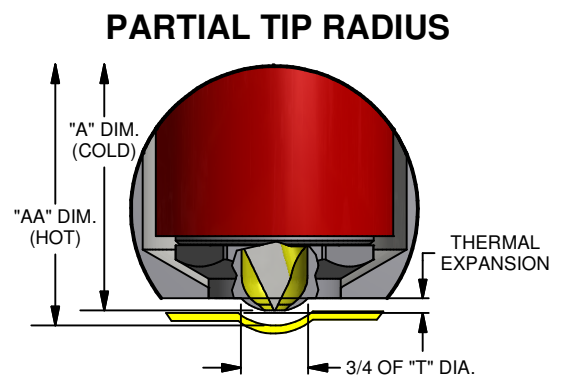
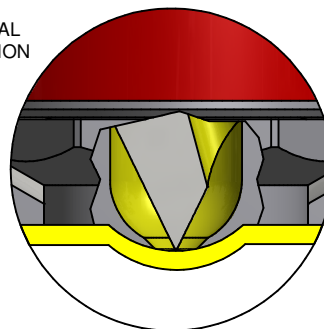
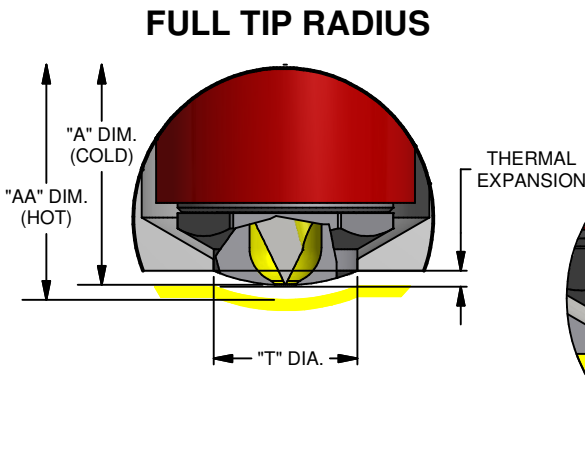
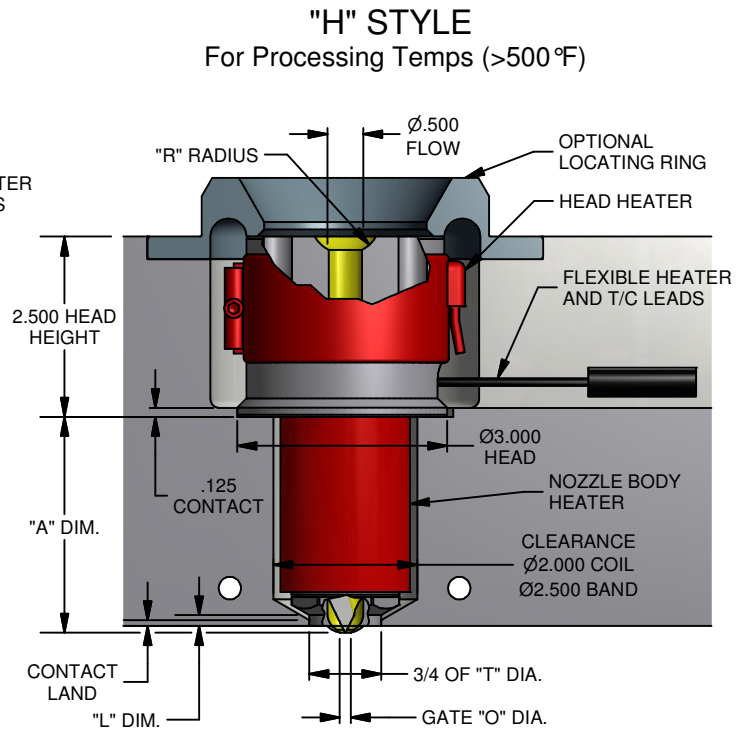
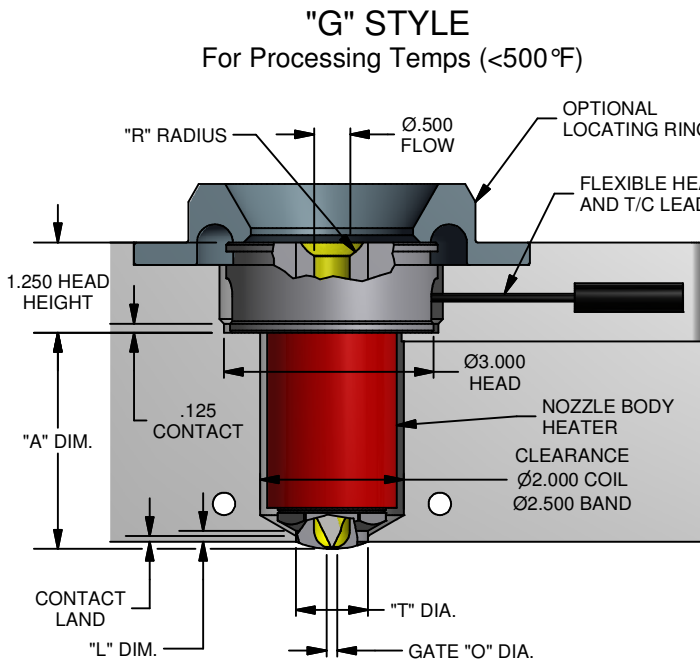
TIP INFORMATION		BORING INFORMATION	
"T" DIA.	"L" DIM.	"T" DIA. $\pm$ .0005 BORE $\pm$ .0000	CONTACT LAND
.750	.187	.7505	.100
1.000	.250	1.0005	.150

BODY HEATER	CLEARANCE REQUIRED
"MC" MINI COIL HEATER	2.000 DIA.
"BH" BAND HEATER	2.500 DIA.

\* Note: The information given here should be used as a guide. A variation in growth of any nozzle from the formulation is possible due to cooling conditions or mold configuration. It is advisable to allow a margin of safety. For some very critical applications, an empirical factor may have to be obtained.

# RGS-200-G/H HSN

The "RGS" Recessed Gate Full Body Style HSN - 200 Series Hot Sprue Nozzle utilizes a Ø.500 resin bore. The **"G" Style Nozzle** is engineered for general purpose resins and the **"H" Style Nozzle** is engineered for the toughest High Heat / Heat Sensitive Resins.



## THERMAL EXPANSION NOTE

"AA" DIM. = "A" DIM. + THERMAL EXPANSION  
EXPANSION = "A" DIM. X .00000633 X (PROCESSING TEMP. - 68°F)

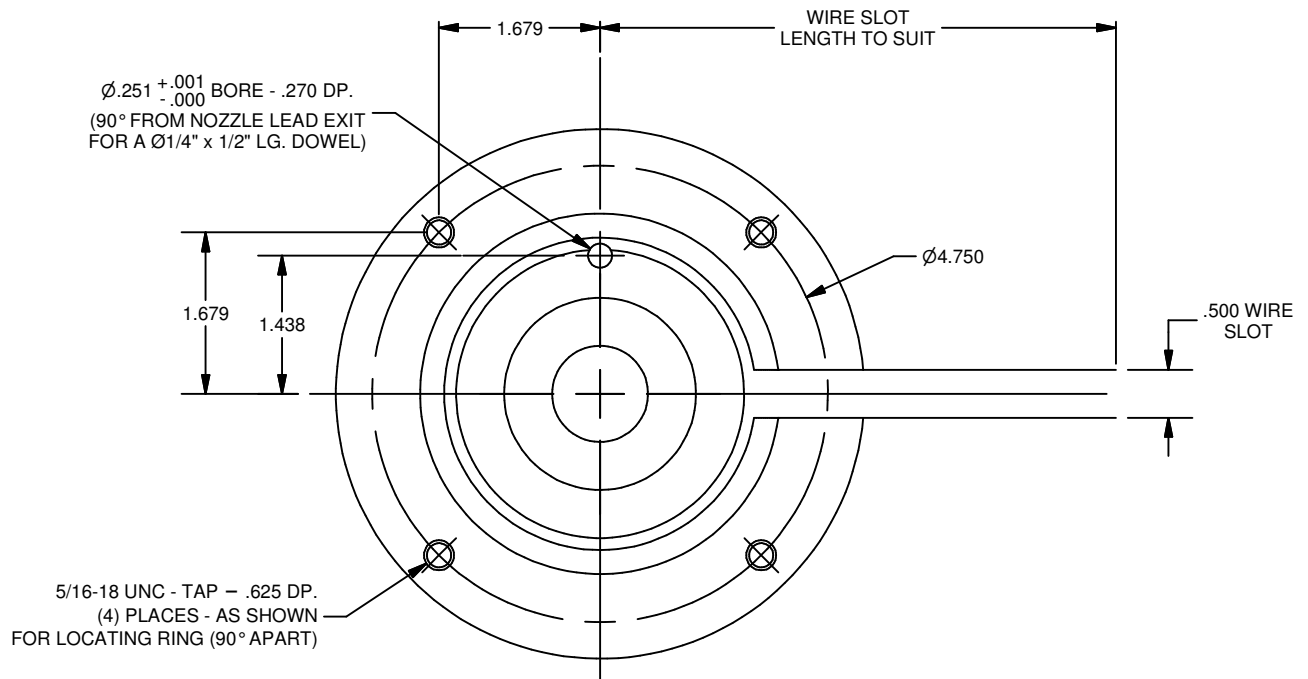
NOZZLE TYPE	"A" DIM.	STYLE	"T" TIP	DIMPLE	"O" GATE	"R" RADIUS
R G S 2 0	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<b>HOW TO ORDER:</b> Specify dimensions by completing the following chart. <b>Call:</b> <b>1-800-499-OSCO</b>	3.000" = 30 4.000" = 40 5.000" = 50 6.000" = 60 7.000" = 70 8.000" = 80 9.000" = 90 10.000" = 10	G = Style H = Style	7 = Ø.750 1 = Ø1.000	F = "T" DIA. P = 3/4 OF "T" DIA.	12 = Ø.120 15 = Ø.150	1/2 = 5 3/4 = 7
				<input type="text"/>		Specify resin to be processed.

NOTE: For sizes other than shown, please contact Osco Tech Service.

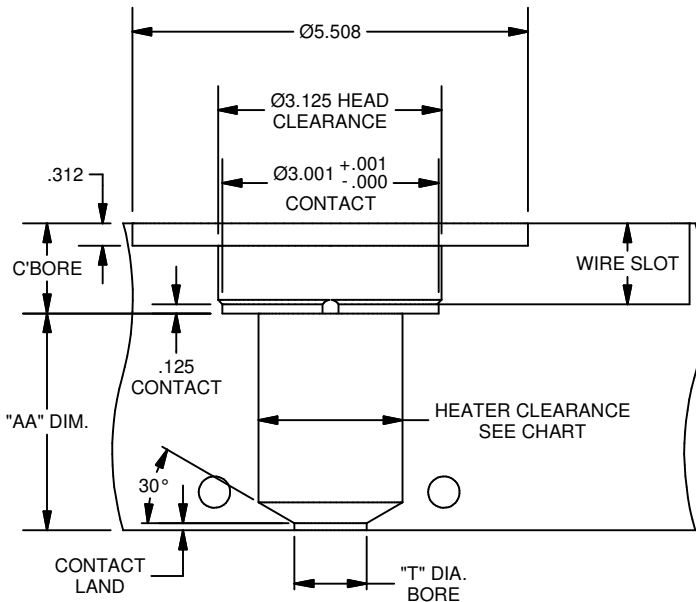
\* Note: The information given here should be used as a guide. A variation in growth of any nozzle from the formulation is possible due to cooling conditions or mold configuration. It is advisable to allow a margin of safety. For some very critical applications, an empirical factor may have to be obtained.



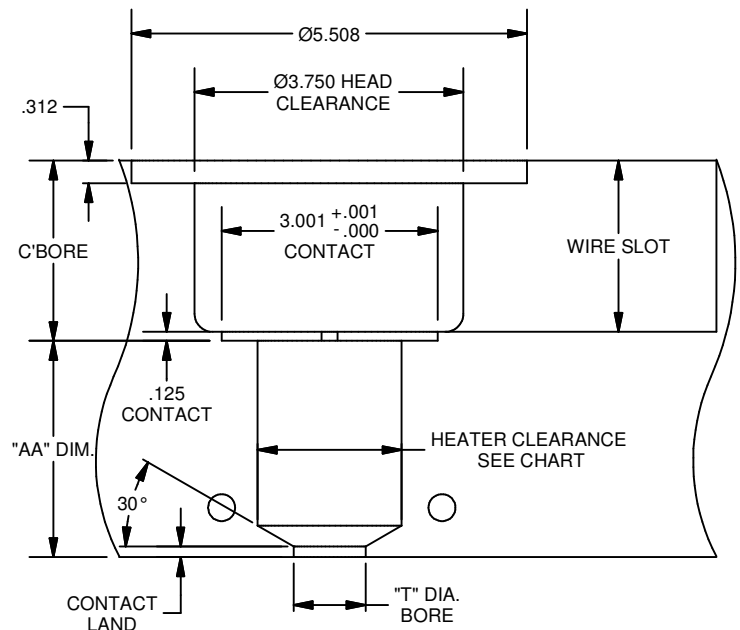
# RGS-200-G/H BORING



## "G" STYLE BORING INFORMATION



## "H" STYLE BORING INFORMATION



### THERMAL EXPANSION NOTE

"AA" DIM. = "A" DIM. + THERMAL EXPANSION  
EXPANSION = "A" DIM. X .00000633 X (PROCESSING TEMP. - 68°F)

TIP INFORMATION		BORING INFORMATION	
"T" DIA.	"L" DIM.	"T" DIA. +.0005 BORE -.0000	CONTACT LAND
.750	.187	.7505	.050 MIN.
1.000	.250	1.0005	.050 MIN.

BODY HEATER	CLEARANCE REQUIRED
"MC" MINI COIL HEATER	2.000 DIA.
"BH" BAND HEATER	2.500 DIA.

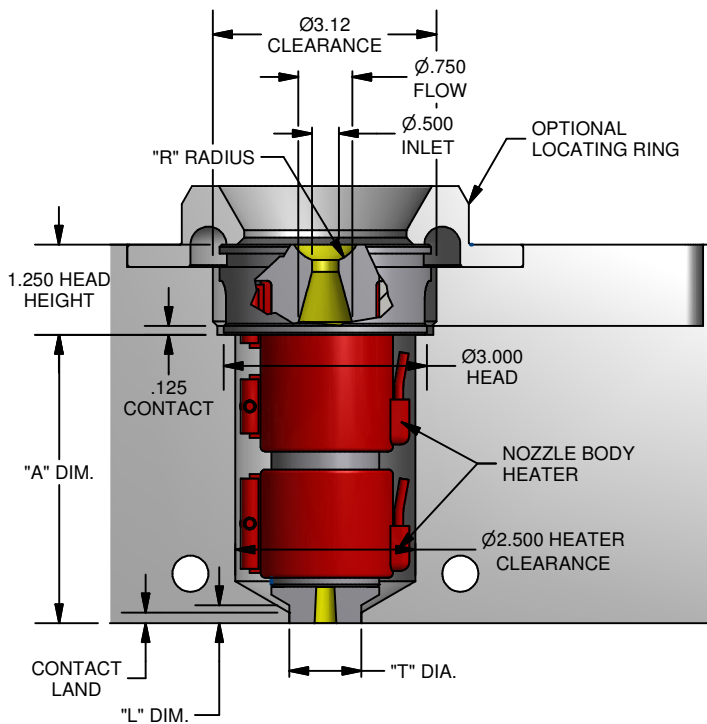
\* Note: The information given here should be used as a guide. A variation in growth of any nozzle from the formulation is possible due to cooling conditions or mold configuration. It is advisable to allow a margin of safety. For some very critical applications, an empirical factor may have to be obtained.

# AFS-300-G/H HSN

The "AFS" Absolute Flow Style HSN - 300 Series Hot Sprue Nozzle utilizes a  $\varnothing .750$  resin bore. The **"G" Style Nozzle** is engineered for general purpose resins and the **"H" Style Nozzle** is engineered for the toughest High Heat / Heat Sensitive Resins.

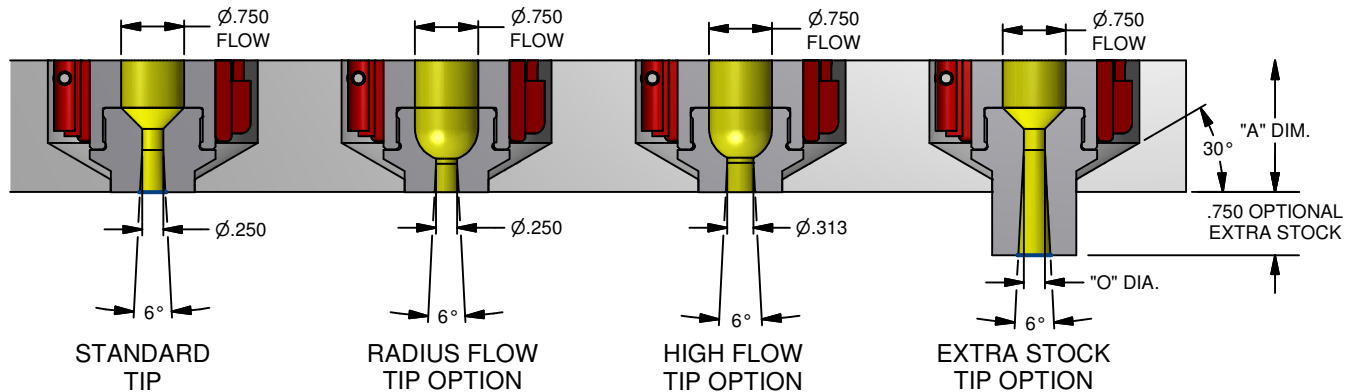
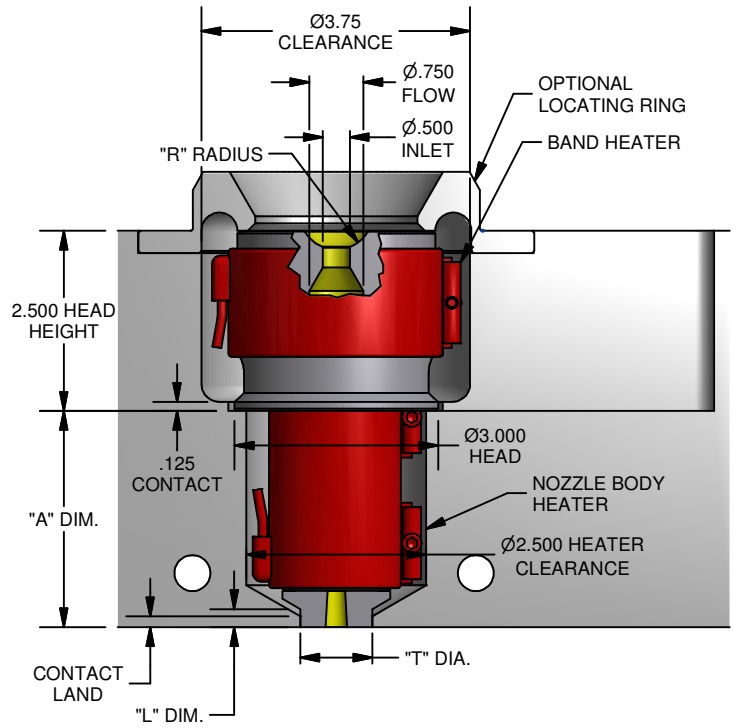
## "G" STYLE

For Processing Temps (<500°F)



## "H" STYLE

For Processing Temps (>500°F)



### THERMAL EXPANSION NOTE

"AA" DIM. = "A" DIM. + THERMAL EXPANSION

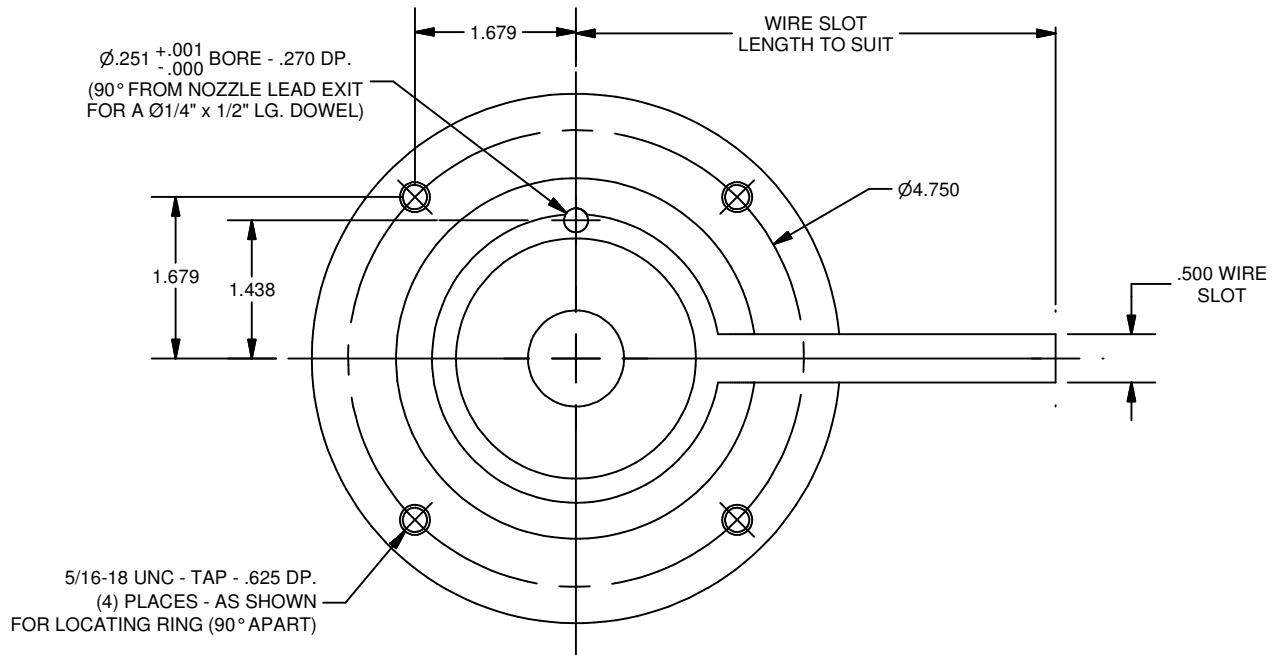
EXPANSION = "A" DIM. X .00000633 X (PROCESSING TEMP. - 68°F)

NOZZLE TYPE	"A" DIM.	STYLE	"T" TIP	"L" LAND	"O" GATE	"R" RADIUS	BODY HEATER
A F S 3 0							
HOW TO ORDER: Specify dimensions by completing the following chart. Call: 1-800-499-OSCO	3.000" = 30 4.000" = 40 5.000" = 50 6.000" = 60	7.000" = 70 8.000" = 80 9.000" = 90 10.000" = 10	G = Style H = Style	1 = $\varnothing 1.000$	Std. = S Extra Stock = X	25 = $\varnothing .250$ 31 = $\varnothing .312$	1/2 = 5 3/4 = 7 MC = MINI-COIL B = BAND

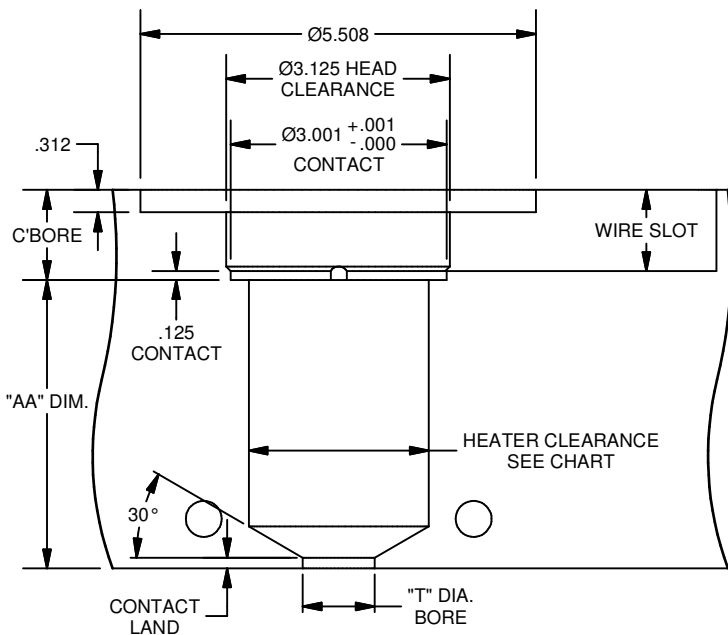
Specify resin to be processed.

NOTE: For sizes other than shown, please contact Osco Tech Service.

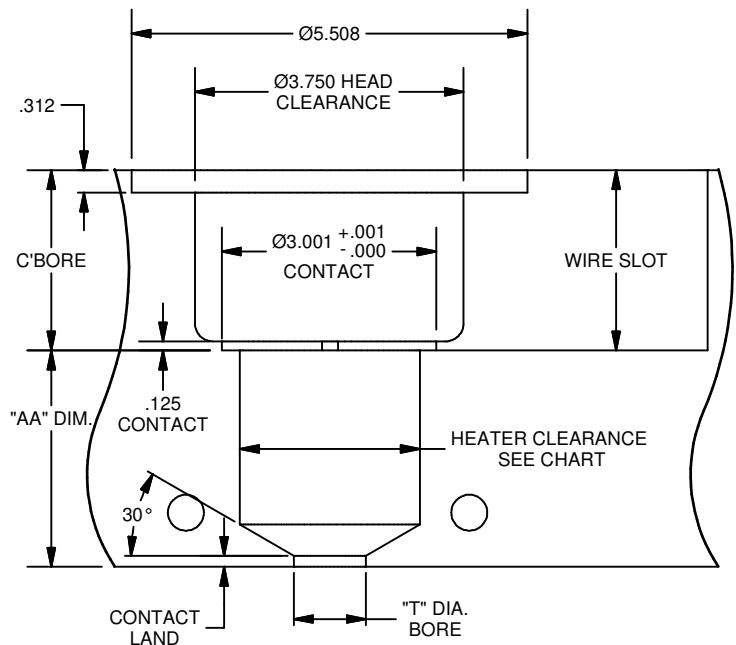
# AFS-300-G/H BORING



## "G" STYLE BORING INFORMATION



## "H" STYLE BORING INFORMATION



### THERMAL EXPANSION NOTE

"AA" DIM. = "A" DIM. + THERMAL EXPANSION

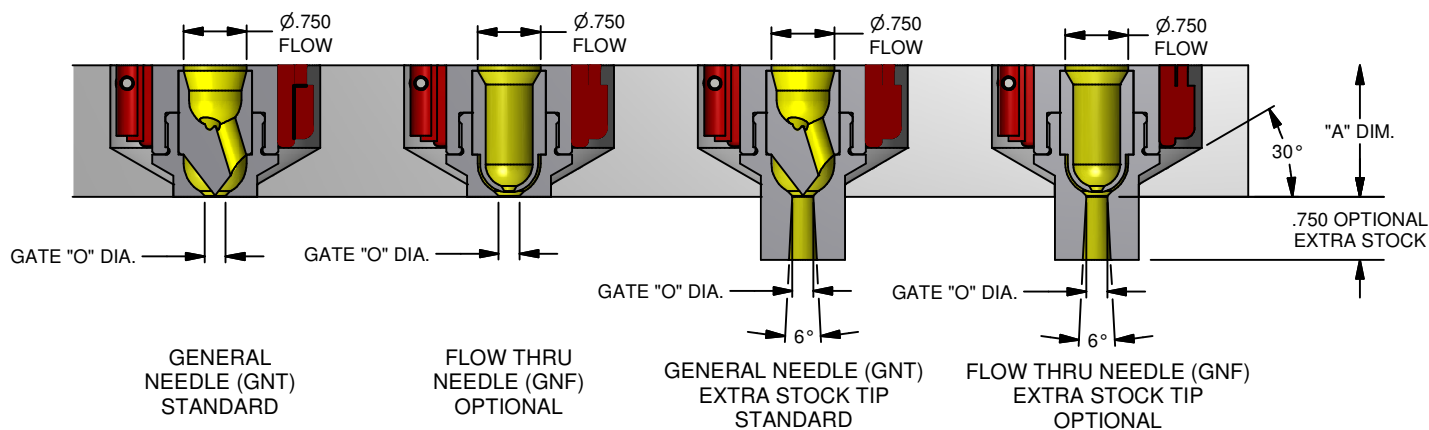
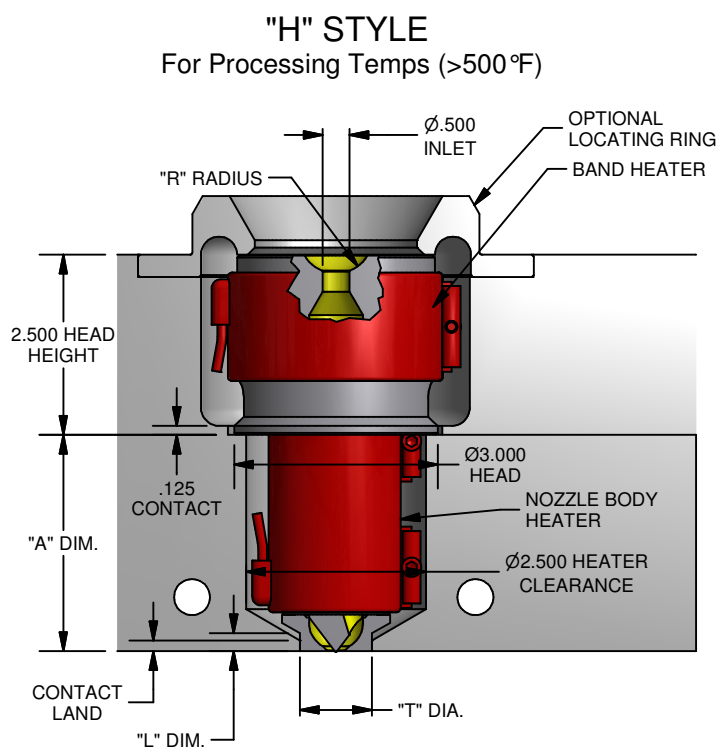
EXPANSION = "A" DIM. X .00000633 X (PROCESSING TEMP. - 68°F)

TIP INFORMATION		BORING INFORMATION	
"T" DIA.	"L" DIM.	"T" DIA. +.0005 BORE -.0000	CONTACT LAND
.750	.187	.7505	.100
1.000	.250	1.0005	.150

BODY HEATER	CLEARANCE REQUIRED
"MC" MINI COIL HEATER	2.000 DIA.
"BH" BAND HEATER	2.500 DIA.

\* Note: The information given here should be used as a guide. A variation in growth of any nozzle from the formulation is possible due to cooling conditions or mold configuration. It is advisable to allow a margin of safety. For some very critical applications, an empirical factor may have to be obtained.

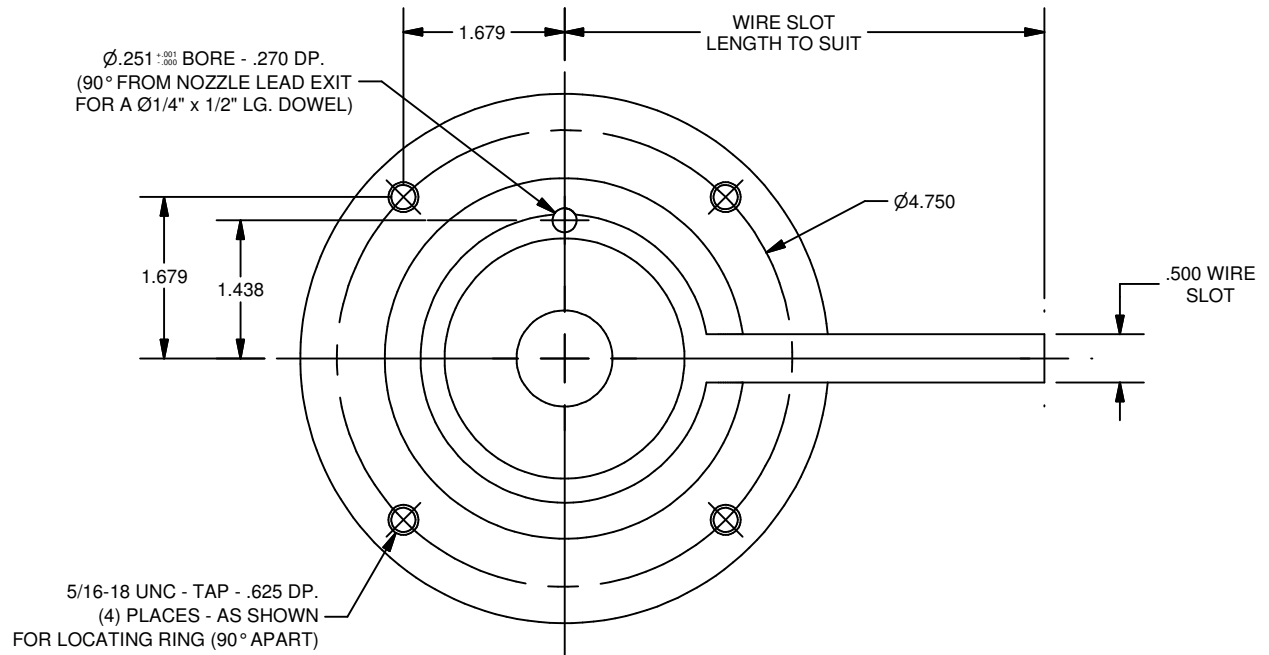
The "FBS" Full Body Style HSN - 300 Series Hot Sprue Nozzle utilizes a Ø.750 resin bore. The **"G" Style Nozzle** is engineered for general purpose resins and the **"H" Style Nozzle** is engineered for the toughest High Heat / Heat Sensitive Resins.



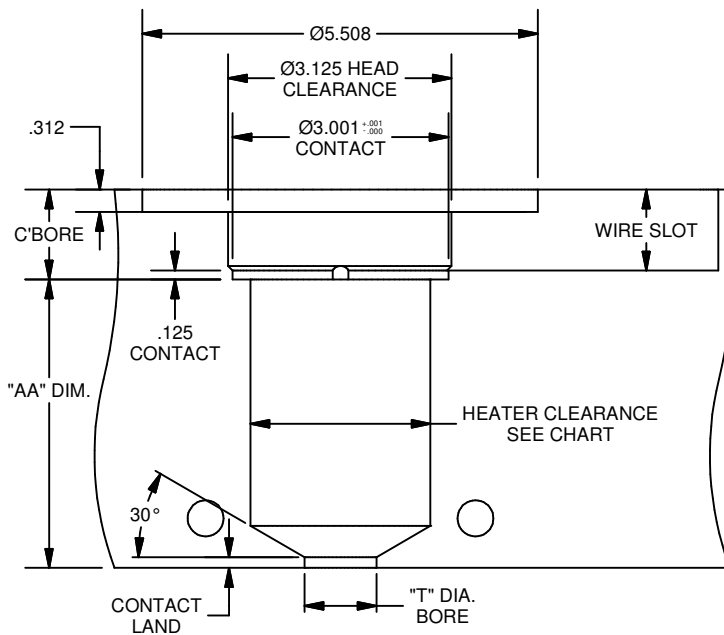
"AA" DIM. = "A" DIM. + THERMAL EXPANSION  
EXPANSION = "A" DIM. X .00000633 X (PROCESSING TEMP. - 68°F)

*NOTE: For sizes other than shown, please contact Osco Tech Service.*

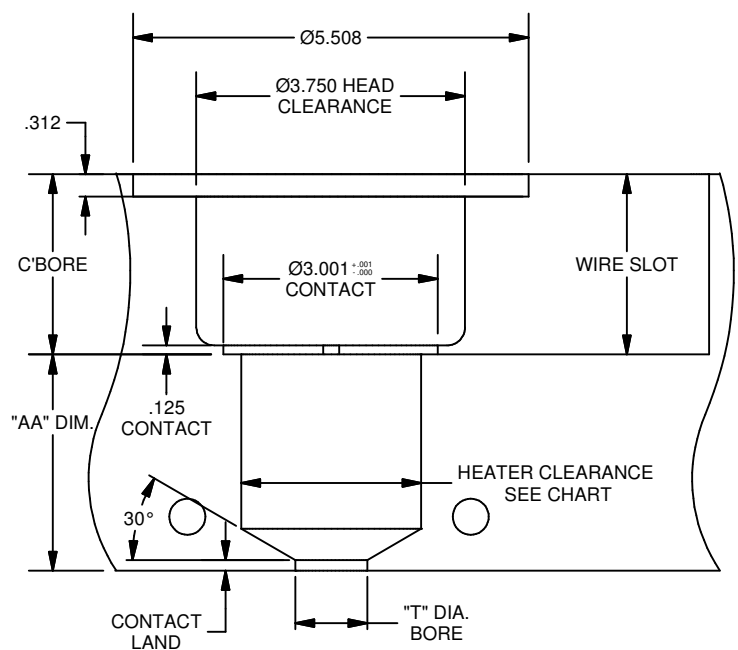
# FBS-300-G/H BORING



## "G" STYLE BORING INFORMATION



## "H" STYLE BORING INFORMATION



### THERMAL EXPANSION NOTE

"AA" DIM. = "A" DIM. + THERMAL EXPANSION  
EXPANSION = "A" DIM. X .00000633 X (PROCESSING TEMP. - 68°F)

TIP INFORMATION		BORING INFORMATION	
"T" DIA.	"L" DIM.	"T" DIA. <sup>+.0005</sup> / <sub>-.0000</sub> BORE	CONTACT LAND
.750	.187	.7505	.100
1.000	.250	1.0005	.150

BODY HEATER	CLEARANCE REQUIRED
"MC" MINI COIL HEATER	2.000 DIA.
"BH" BAND HEATER	2.500 DIA.

★ Note: The information given here should be used as a guide. A variation in growth of any nozzle from the formulation is possible due to cooling conditions or mold configuration. It is advisable to allow a margin of safety. For some very critical applications, an empirical factor may have to be obtained.