Hot Sprue Nozzles



NYLON / TORLON MIM / ULTEM

Where Innovation Flows

Proudly Made in the USA



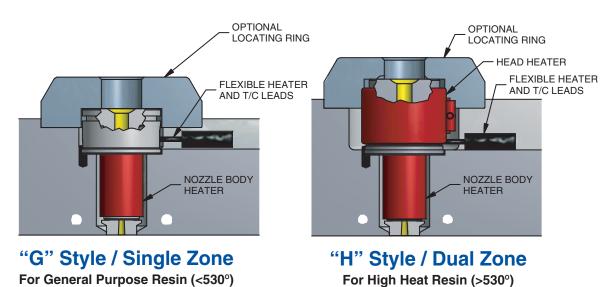


Hot Sprue Nozzles

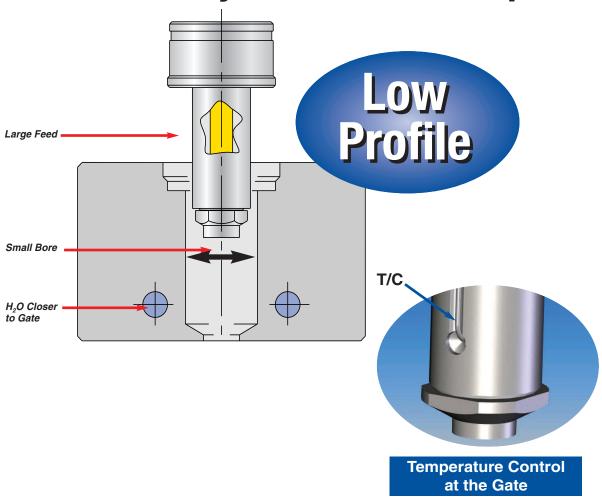
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Faster Cycle Times Replaces **Cold Sprue Bushings** For Use With General Purpose or High Heat Resins

Hot Sprue Nozzle - (HSN)



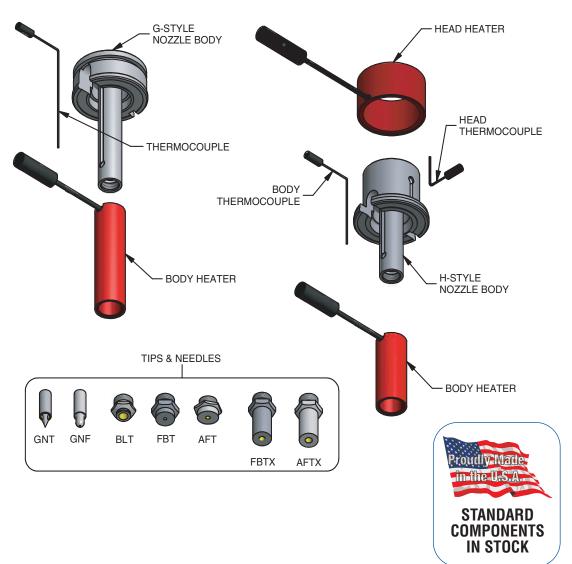
Anatomy of a Better Drop

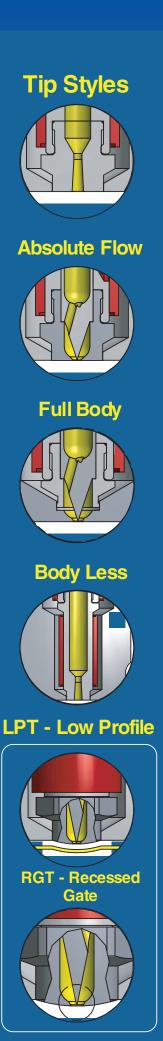


Design Versatility



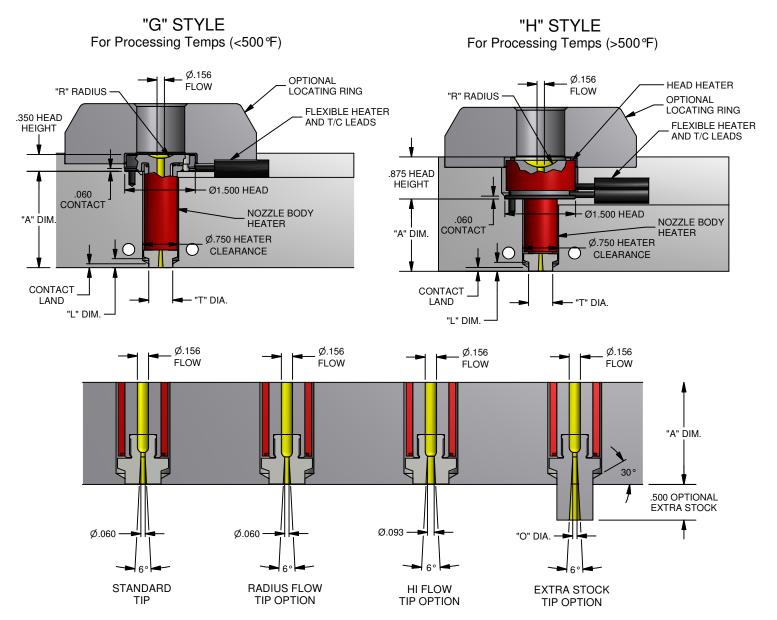
Field Serviceable





AFS-20-G/H HSN

The "AFS" Absolute Flow Style HSN - 20 Series Hot Sprue Nozzle utilizes a Ø.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.

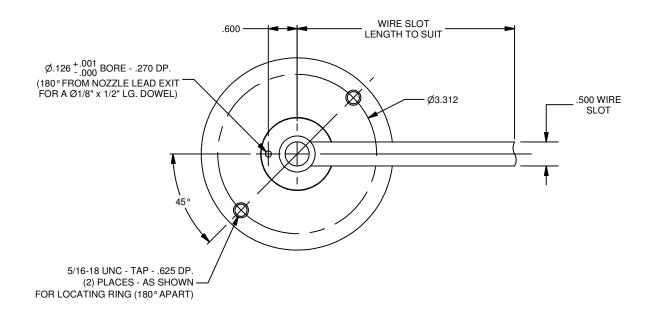


THERMAL EXPANSION NOTE

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

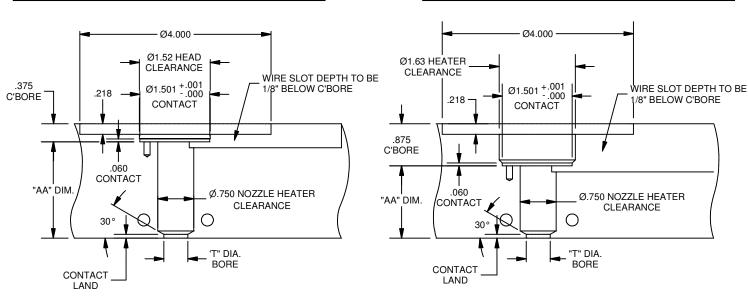
NOZZLE TYPE	"A" DIM.	STYLE	"T" TIP	"L" LAND	"O" GATE	"R" RADIUS
AFS02						
HOW TO ORDER: Specify dimensions by completing the following chart. Call: 1-800-499-OSCO	1.500" = 15 2.000" = 20 2.500" = 25 3.000" = 30	G = Style H = Style	3 = Ø.375 5 = Ø.500 7 = Ø.750	Std. = S Extra Stock = X Spe	06 = Ø.060 09 = Ø.093 cify resin to be pr	1/2 = 5 3/4 = 7 ocessed.

AFS-20-G/H BORING



"G" STYLE BORING INFORMATION

"H" STYLE BORING INFORMATION



THERMAL EXPANSION NOTE

TIP INFOR	RMATION	BORING INF	ORMATION
"T" DIA.	"L" DIM.	"T" DIA. +.0005 BORE0000	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 Ø.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 "H" STYLE For Processing Temps (<500°F) For Processing Temps (>500 °F) Ø.156 Ø.156 OPTIONAL LOCATING RING FLOW **HEAD HEATER** FLOW "R" RADIUS "R" RADIUS **OPTIONAL** LOCATING RING .350 HEAD FLEXIBLE HEATER **HEIGHT** AND T/C LEADS .875 HEAD **HEIGHT** Ø1.500 HEAD CONTACT **NOZZLE BODY** Ø1.500 "A" DIM. **HEATER HEAD** NOZZLE BODY CONTACT "A" DIM. **HEATER** Ø.750 HEATER **CLEARANCE** Ø.750 HEATER **CLEARANCE** "T" DIA. - "T" DIA. GATE "O" DIA. ★ - GATE "O" DIA. * Ø.156 Ø.156 FLOW FLOW "A" DIM. 125 TIP .125 TIP SET BACK SET BACK **NEEDLE NEEDLE** "T" DIA. SET BACK "T" DIA. +--SET BACK

THERMAL EXPANSION NOTE

"AA" DIM. = "A" DIM. + THERMAL EXPANSION EXPANSION = "A" DIM. X .00000633 X (PROCESSING TEMP. - $68\,^{\circ}$ F)

GENERAL

NEEDLE (GNT)

STANDARD

NOZZLE TYPE	"A" DIM.	STYLE	"O" GATE	"R" RADIUS
BLS02				
HOW TO ORDER: Specify dimensions by completing the following chart. Call:	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
1-800-499-OSCO			Specify resin	to be processed.

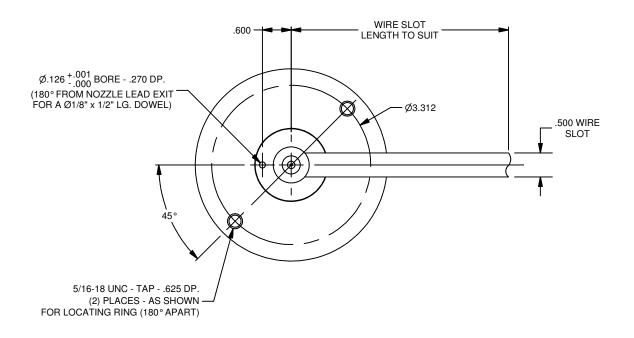
NOTE: For sizes other than shown, please contact Osco Tech Service.

FLOW THRU

NEEDLE (GNF)

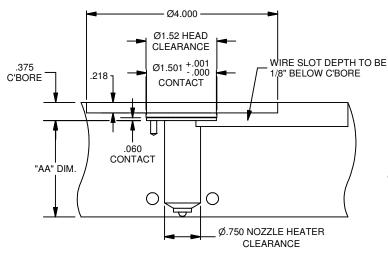
OPTIONAL

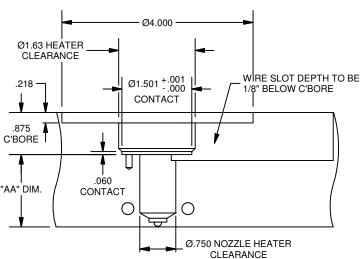
BLS-20-G/H BORING



"G" STYLE BORING INFORMATION

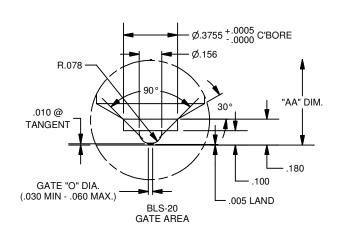
"H" STYLE BORING INFORMATION





THERMAL EXPANSION NOTE

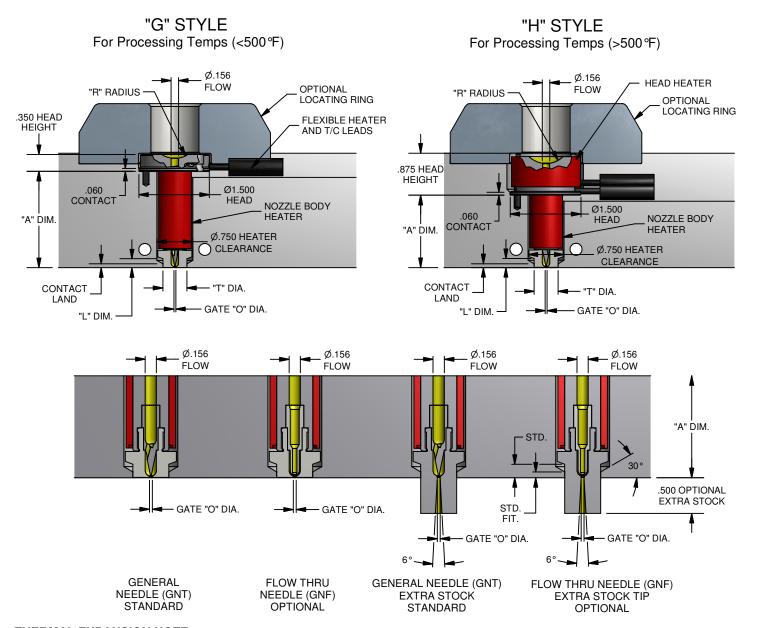
"AA" DIM. = "A" DIM. + THERMAL EXPANSION EXPANSION = "A" DIM. X .00000633 X (PROCESSING TEMP. - 68 °F) (DUE TO THE BODY LESS NOZZLE DESIGN, THERMAL EXPANSION DOES NOT NEED TO BE CONSIDERED FOR STD. NOZZLE LENGTH)



^{*} 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.

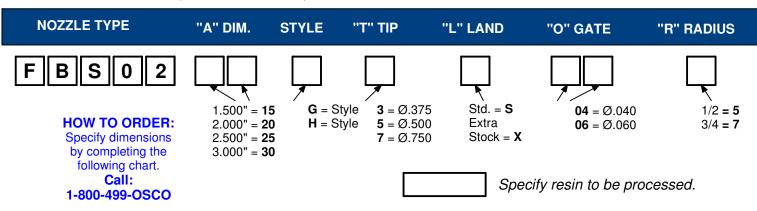
FBS-20-G/H HSN

The "FBS" Full Body Style HSN - 20 Series Hot Sprue Nozzle utilizes a Ø.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.

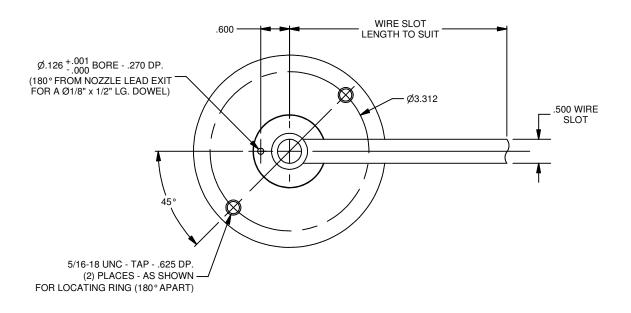


THERMAL EXPANSION NOTE

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

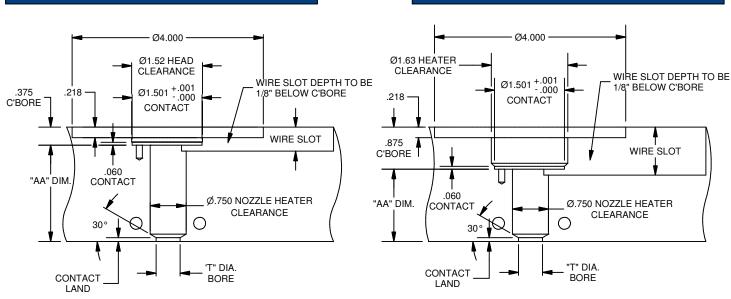


FBS-20-G/H BORING



"G" STYLE BORING INFORMATION

"H" STYLE BORING INFORMATION



THERMAL EXPANSION NOTE

TIP INFORMATION		BORING INFORMATION		
"T" DIA.	"L" DIM.	"T" DIA. +.0005 BORE0000	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 Ø.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 "H" STYLE For Processing Temps (<500°F) For Processing Temps (>500°F) LOCATING Ø.156 **OPTIONAL** Ø.156 RING **FLOW** RETAINING "R" RADIUS FLOW "R" RADIUS RING FLEXIBLE HEATER FLEXIBLE HEATER AND T/C LEADS AND T/C LEADS .375 C'BORE .875 C'BORE .350 HEAD **HEAD HEIGHT** Ø1.500 NOZZLE BODY **HEAD** "A" DIM. **HEATER** NOZZLE BODY "A" DIM. **HEATER** Ø.750 HEATER Ø.750 HEATER CLEARANCE **CLEARANCE** CONTACT T" DIA CONTACT T" DIA LAND LAND GATE "O" DIA. GATE "O" DIA. "L" DIM.

FULL TIP RADIUS

"A" DIM (COLD) "A" DIM (COLD) "AA" DIM. **THERMAL** "AA" DIM. THERMAL (HOT) **EXPANSION** (HOT) **EXPANSION** .030 RECESS .030 RECESS 3/4 OF "T" DIA. PART PART

SHOWN HOT

"L" DIM.

THERMAL EXPANSION NOTE

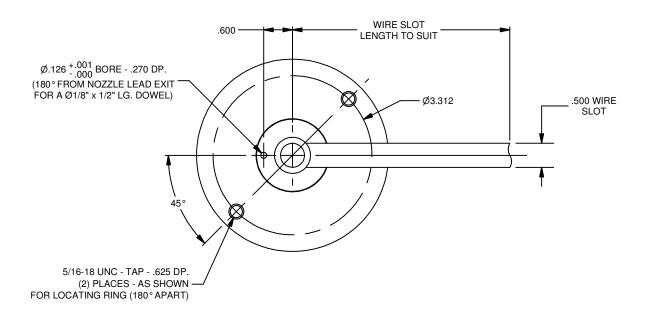
"AA" DIM. = "A" DIM. + THERMAL EXPANSION EXPANSION = "A" DIM. X .00000633 X (PROCESSING TEMP. - 68 °F)

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

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

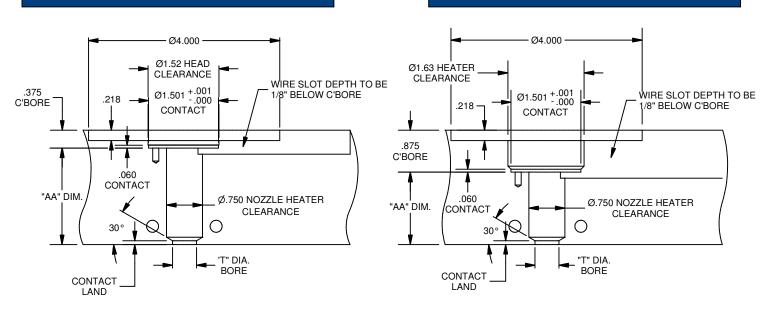
PARTIAL TIP RADIUS

RGS-20-G/H BORING



"G" STYLE BORING INFORMATION

"H" STYLE BORING INFORMATION



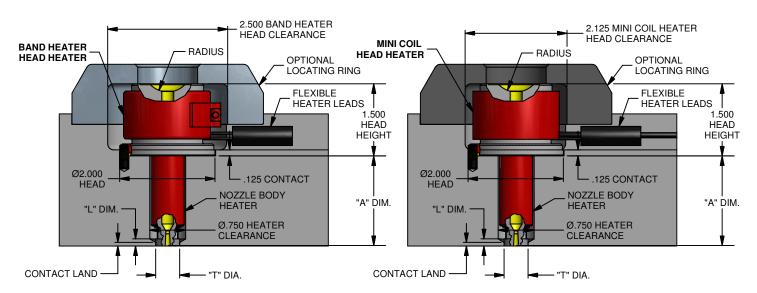
THERMAL EXPANSION NOTE

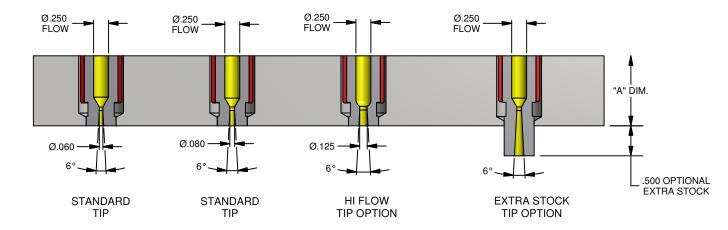
TIP INFOR	TIP INFORMATION		ORMATION
"T" DIA.	"L" DIM.	"T" DIA. +.0005 BORE0000	CONTACT LAND
.375	.182	.3755	.040 MIN.
.500	.182	.5005	.040 MIN.
.750	.182	.7505	.040 MIN.

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.





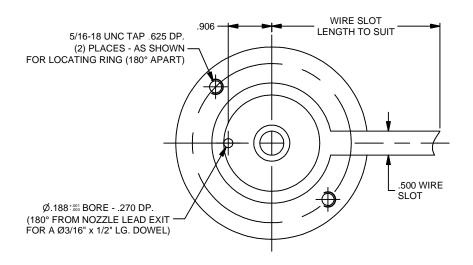
THERMAL EXPANSION NOTE

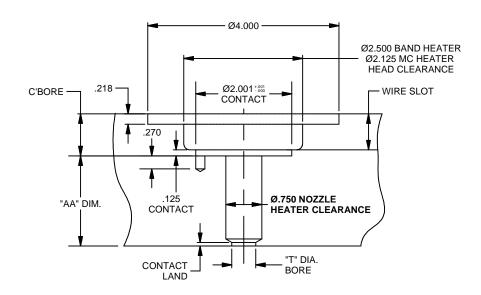
"AA" DIM. = "A" DIM. + THERMAL EXPANSION EXPANSION = "A" DIM. X .00000633 X (PROCESSING TEMP. - 68 °F)

TIP INFO	RMATION	BORING INFORMATIO		
"T" DIA.	"L" DIM.	"T" DIA. +.0005 BORE0000	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
HOW TO ORDER: Specify dimensions by completing the following chart. Call: 1-800-499-OSCO	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 HII	

AFS-35-HSN - BORING





THERMAL EXPANSION NOTE

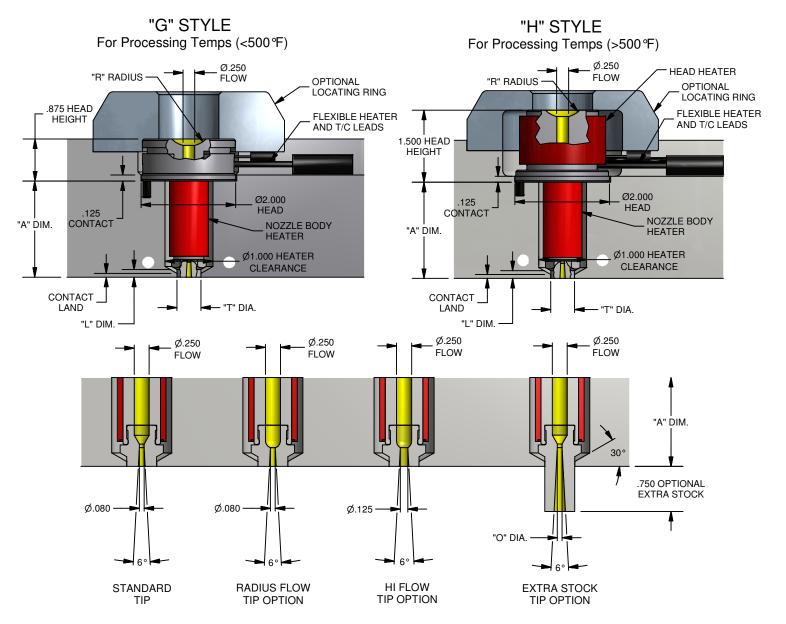
TIP INFO	TIP INFORMATION		FORMATION
"T" DIA.	"L" DIM.	"T" DIA. +.0005 BORE0000	CONTACT LAND
.375	.160	.3755	.060
.500	.160	.5005	.080
.750	.150	.7505	.150

^{*} 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.



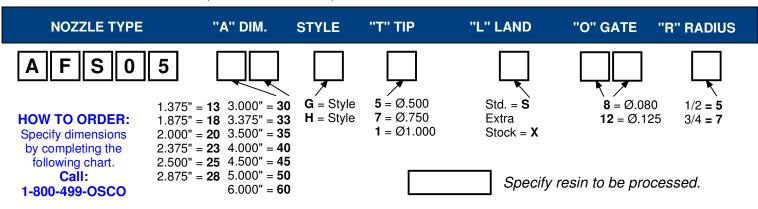
AFS-50-G/H HSN

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.

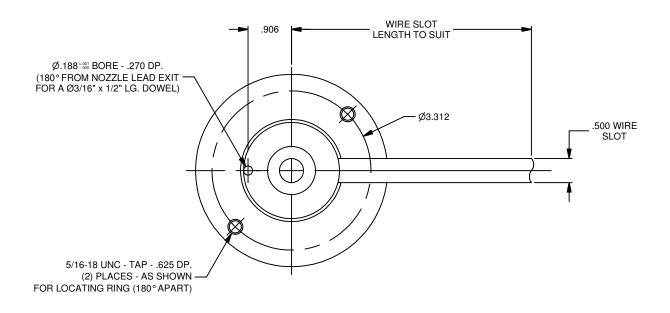


THERMAL EXPANSION NOTE

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



AFS-50-G/H BORING



"H" STYLE "G" STYLE **BORING INFORMATION BORING INFORMATION** Ø4.000 Ø4.000 Ø2.125 HEAD Ø2.500 HEAD CLEARANCE **CLEARANCE** 2.001 + .001 Ø2.001 *.001 .218 -.218 -CONTACT CONTACT WIRE SLOT WIRE SLOT 270 270 C'BORE C'BORE .125 .125 CONTACT CONTACT "AA" DIM. "AA" DIM. Ø1.000 NOZZLE HEATER Ø1.000 NOZZLE HEATER CLEARANCE CLEARANCE 30 309 "T" DIA. CONTACT CONTACT "T" DIA. LAND **BORE** LAND BORE

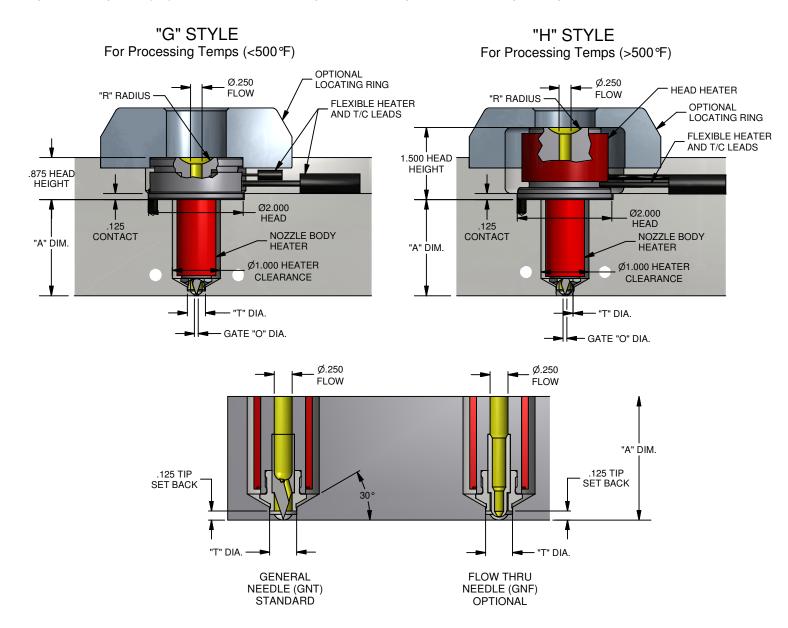
THERMAL EXPANSION NOTE

TIP INFOR	TIP INFORMATION		ORMATION
"T" DIA.	"L" DIM.	"T" DIA. +.0005 BORE0000	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 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.

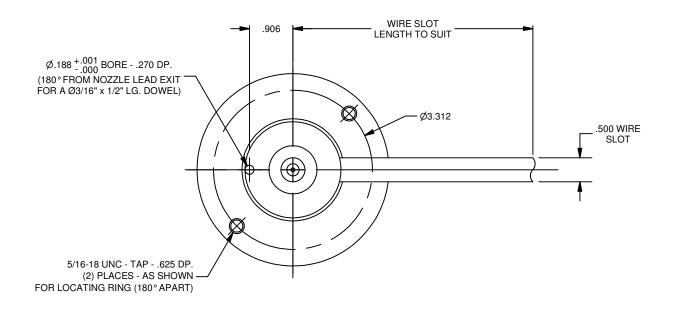


THERMAL EXPANSION NOTE

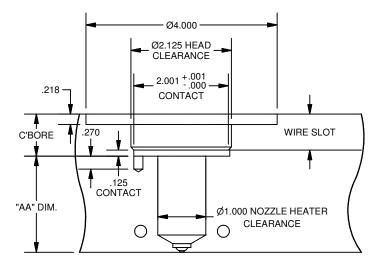
"AA" DIM. = "A" DIM. + THERMAL EXPANSION EXPANSION = "A" DIM. X .00000633 X (PROCESSING TEMP. - 68 °F)

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

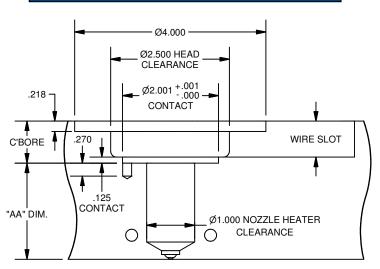
BLS-50-G/H BORING



"G" STYLE BORING INFORMATION

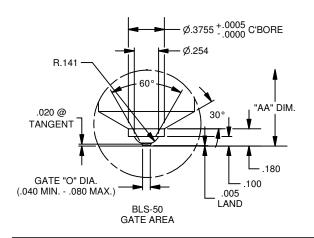


"H" STYLE BORING INFORMATION



THERMAL EXPANSION NOTE

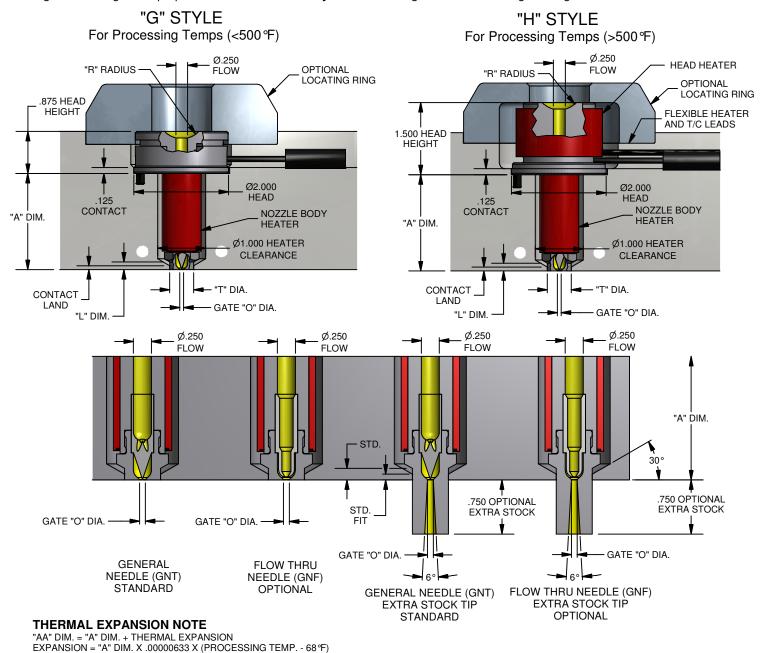
"AA" DIM. = "A" DIM. + THERMAL EXPANSION EXPANSION = "A" DIM. X .00000633 X (PROCESSING TEMP. - $68\,^\circ$ F) (DUE TO THE BODY LESS NOZZLE DESIGN, THERMAL EXPANSION DOES NOT NEED TO BE CONSIDERED FOR STD. NOZZLE LENGTH)

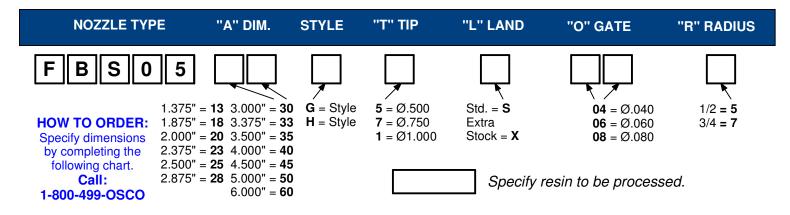


^{*} Note: The information given here should be used as a guide. A variation in growth of any nozzle from the formulation is possible due to cooling conditions or mold configuration. It is advisable to allow a margin of safety. For some very critical applications, an empirical factor may have to be obtained.

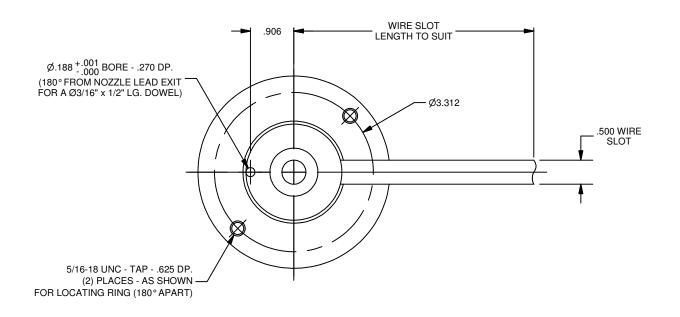
FBS-50-G/H HSN

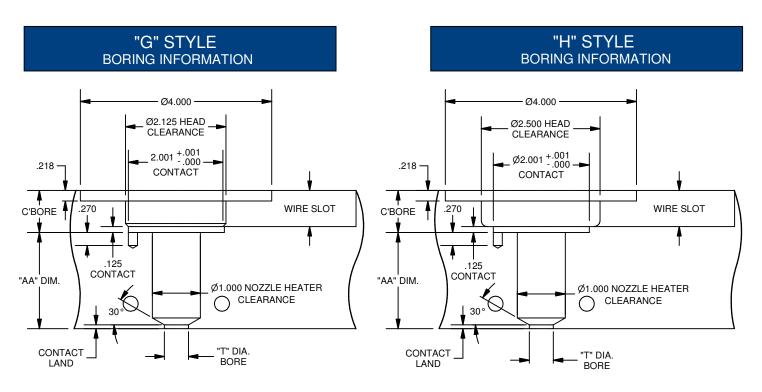
The "FBS" Full Body Style HSN - 50 Series Hot Sprue Nozzle utilizes a Ø.250 resin bore. The "G" Style Nozzle is engineered for general purpose resins and the "H" Style Nozzle is engineered for the toughest High Heat / Heat Sensitive Resins.





FBS-50-G/H BORING





THERMAL EXPANSION NOTE

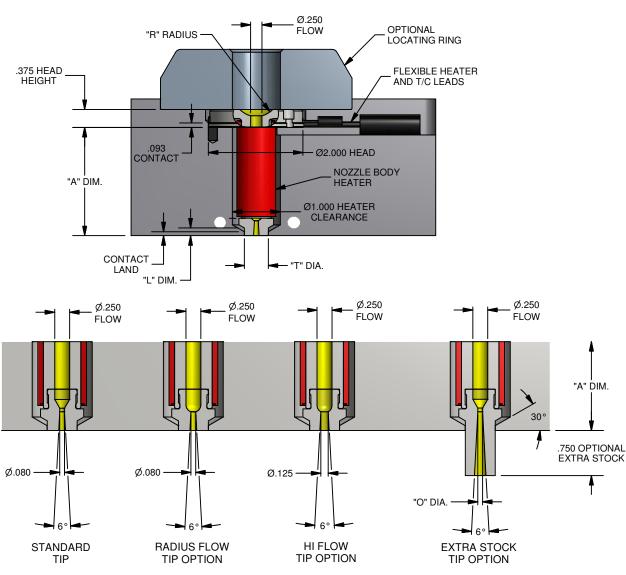
TIP INFOR	RMATION	BORING INFORMATION		
"T" DIA.	"L" DIM.	"T" DIA. +.0005 BORE0000	CONTACT LAND	
.500	.160	.5005	.080	
.750	.150	.7505	.150	
1.000	.150	1.0005	.150	

^{*} 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

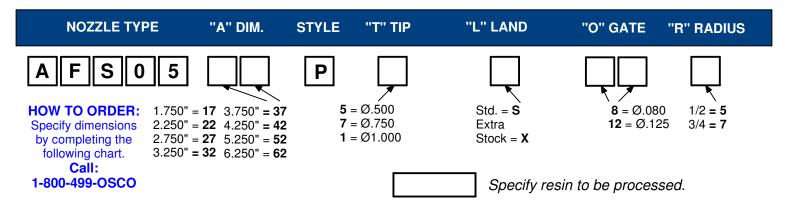
The "AFS" Absolute Flow Style HSN - 50 Series Hot Sprue Nozzle utilizes a Ø.250 resin bore. The "P" Style Nozzle is engineered for general purpose resins.

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

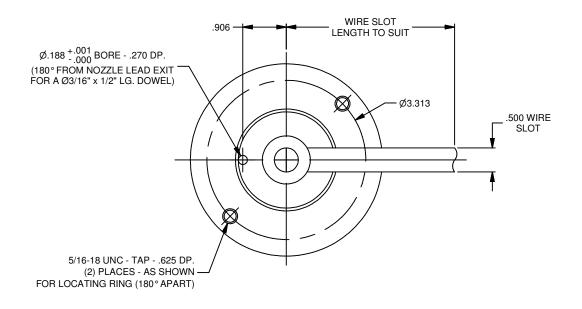


THERMAL EXPANSION NOTE

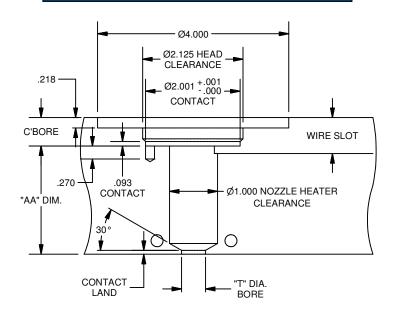
"AA" DIM. = "A" DIM. + THERMAL EXPANSION EXPANSION = "A" DIM. X .00000633 X (PROCESSING TEMP. - 68 °F)



AFS-50-P BORING



"P" STYLE BORING INFORMATION



THERMAL EXPANSION NOTE

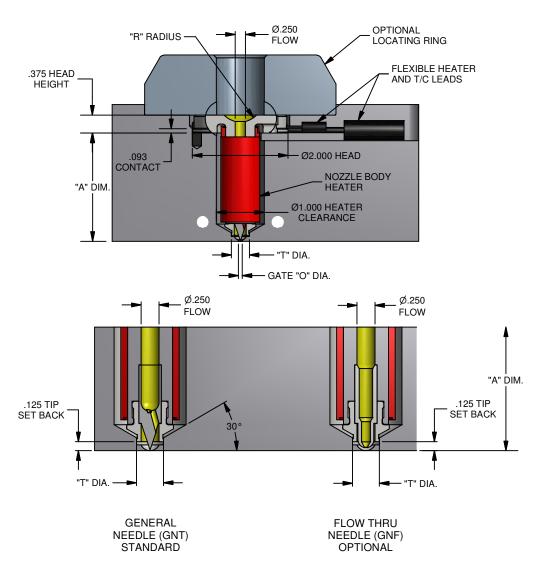
TIP INFORMATION		BORING INFORMATION		
"T" DIA.	"L" DIM.	"T" DIA. +.0005 BORE0000	CONTACT LAND	
.500	.160	.5005	.080	
.750	.150	.7505	.150	
1.000	.150	1.0005	.150	

^{*} 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-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)

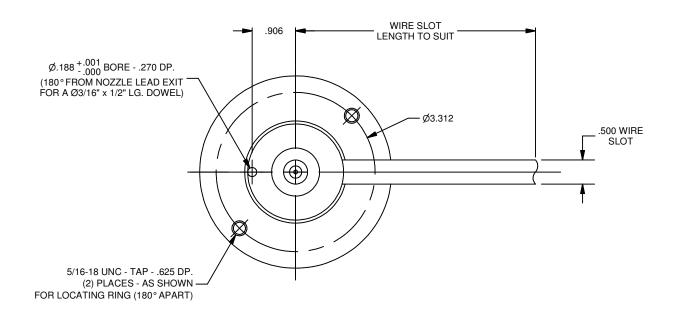


THERMAL EXPANSION NOTE

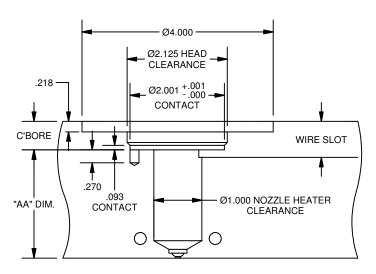
"AA" DIM. = "A" DIM. + THERMAL EXPANSION EXPANSION = "A" DIM. X .00000633 X (PROCESSING TEMP. - 68°F)

NOZZLE TYPE	"A" DIM.	STYLE	"O" GATE	"R" RADIUS
B L S 0 5 HOW TO ORDER: Specify dimensions by completing the following chart. Call: 1-800-499-OSCO	1.750" = 17 3.750" = 37 2.250" = 22 4.250" = 42 2.750" = 27 5.250" = 52 3.250" = 32 6.250" = 62	P	Specify "O" * MIN. = .040 MAX. = .080 Specify resin to be	1/2 = 5 3/4 = 7

BLS-50-P BORING

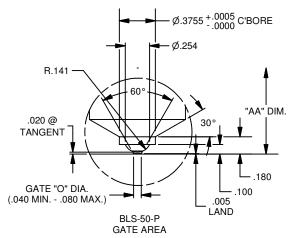


"P" STYLE BORING INFORMATION



THERMAL EXPANSION NOTE

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



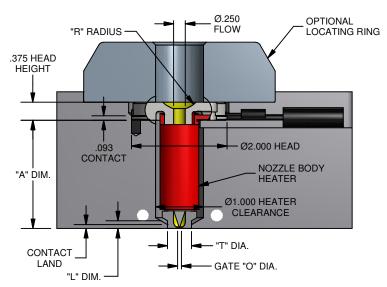
^{*} Note: The information given here should be used as a guide. A variation in growth of any nozzle from the formulation is possible due to cooling conditions or mold configuration. It is advisable to allow a margin of safety. For some very critical applications, an empirical factor may have to be obtained.

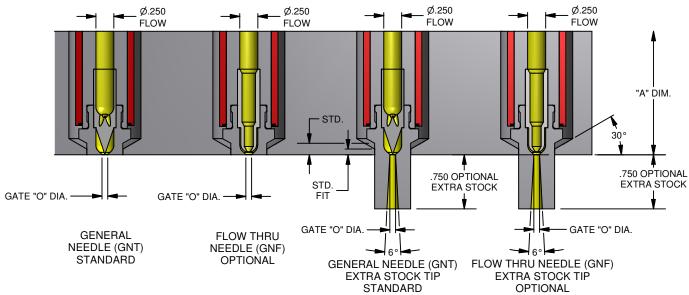
FBS-50-P HSN

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

"P" STYLE

For Processing Temps (<500°F)



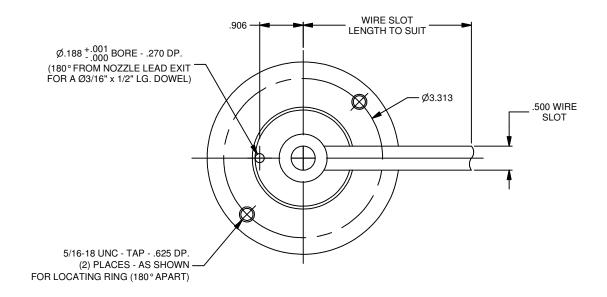


THERMAL EXPANSION NOTE

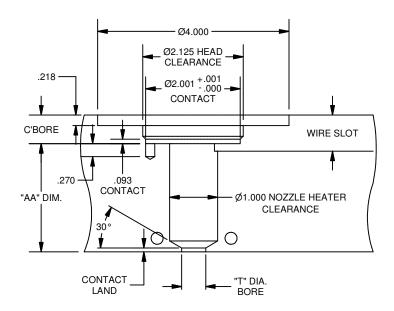
"AA" DIM. = "A" DIM. + THERMAL EXPANSION EXPANSION = "A" DIM. X .00000633 X (PROCESSING TEMP. - 68 °F)

NOZZLE TYP	E '	'A" DIM.	STYLE	"T" TIP	"L" LAND	"O" GATE	"R" RADIUS
HOW TO ORDER: Specify dimensions by completing the following chart. Call: 1-800-499-OSCO	2.250" = 2 2 2.750" = 2 7	7 3.750" = 3 2 4.250" = 4 7 5.250" = 5 2 6.250" = 6	12 52	5 = Ø.500 7 = Ø.750 1 = Ø1.000	Std. = S Extra Stock = X	04 = Ø.040 06 = Ø.060 08 = Ø.080	1/2 = 5 3/4 = 7

FBS-50-P BORING



"P" STYLE BORING INFORMATION



THERMAL EXPANSION NOTE

TIP INFORMATION		BORING INFORMATION		
"T" DIA.	"L" DIM.	"T" DIA. +.0005 BORE0000	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

"L" DIM.

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

21.0

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

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 "H" STYLE For Processing Temps (<500°F) For Processing Temps (>500°F) OPTIONAL Ø.250 OPTIONAL Ø.250 LOCATING RING FLOW LOCATING RING **FLOW** "R" RADIUS "R" RADIUS **HEAD HEATER** FLEXIBLE HEATER AND T/C LEADS 1.500 HEAD HEIGHT .875 HEAD **HEIGHT** Ø2 000 Ø2.000 **HEAD** HEAD NO77LE BODY .125 CONTACT **HEATER** "A" DIM. CONTACT "A" DIM Ø1.000 HEATER Ø1.000 HEATER CLEARANCE **CLEARANCE** "T" DIA. "T" DIA. CONTACT CONTACT LAND LAND GATE "O" DIA.

"L" DIM.

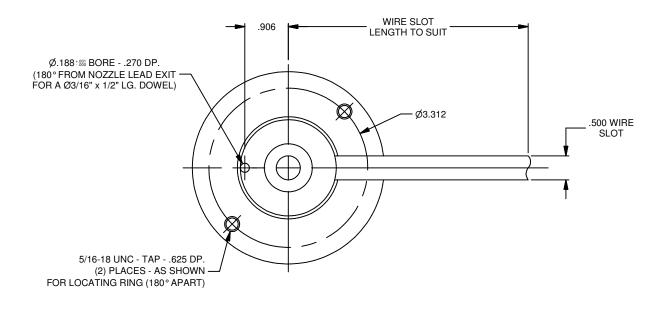
PARTIAL TIP RADIUS FULL TIP RADIUS "A" DIM. (COLD) "A" DIM. (COLD) "AA" DIM "AA" DIM. (HOT) (HOT) **THERMAL** .050 RECESS **THERMAL** 050 RECESS **EXPANSION** EXPANSION 3/4 OF "T" DIA. SHOWN HOT THERMAL EXPANSION NOTE

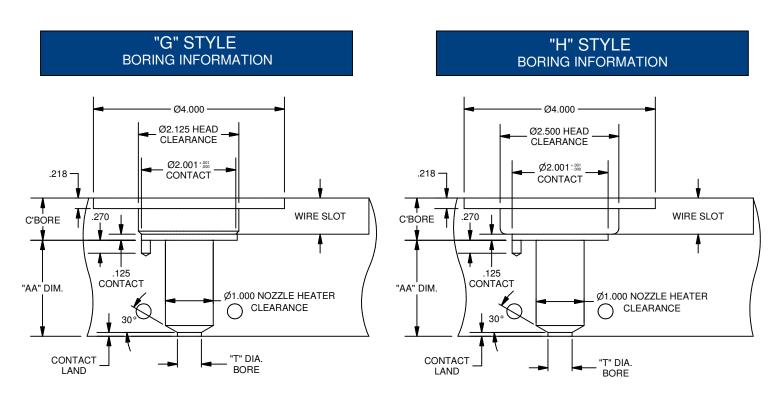
"O" GATE **NOZZLE TYPE** "A" DIM. "T" TIP "R" RADIUS **STYLE** DIMPLE **F** = "T" DIA. **G** = Style $5 = \emptyset.500$ 1.375" = **13** 3.000" = **30** $04 = \emptyset.040$ 1/2 = 5**HOW TO ORDER: P** = 3/4 OF "T" DIA. 1.500" = **15** 3.375" = **33** $7 = \emptyset.750$ **H** = Style 3/4 = 7 $06 = \emptyset.060$ Specify dimensions $1 = \emptyset 1.000$ 1.875" = **18** 3.500" = **35** $08 = \emptyset.080$ by completing the 2.000" = 20 4.000" = 40following chart. 2.375" = **23** 4.500" = **45** Call: $2.500" = 25 \ 5.000" = 50$ Specify resin to be processed. 1-800-499-OSCO 2.875" = **28** 6.000" = **60**

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

- GATE "O" DIA.

RGS-50-G/H BORING





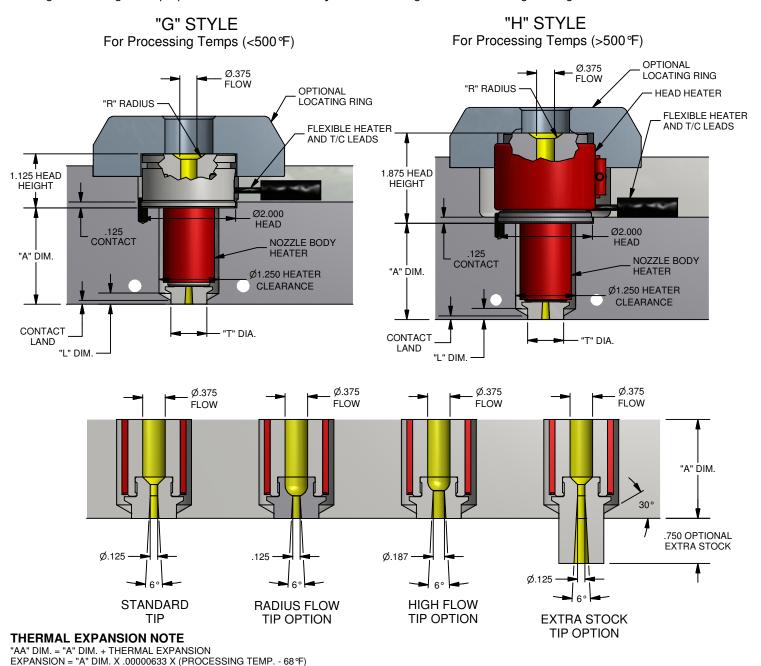
THERMAL EXPANSION NOTE

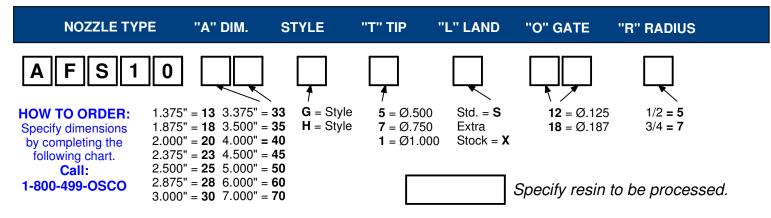
TIP INFORMATION		BORING INFORMATION		
"T" DIA.	"L" DIM.	"T" DIA. +.0005 BORE0000	CONTACT LAND	
.500	.160	.5005	.040 MIN.	
.750	.150	.7505	.040 MIN.	
1.000	.150	1.0005	.040 MIN.	

^{*} 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.

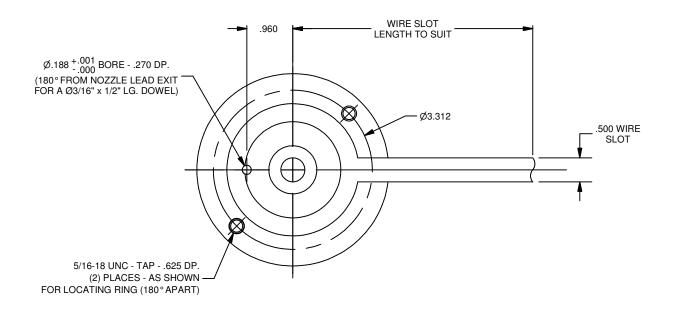
AFS-100-G/H HSN

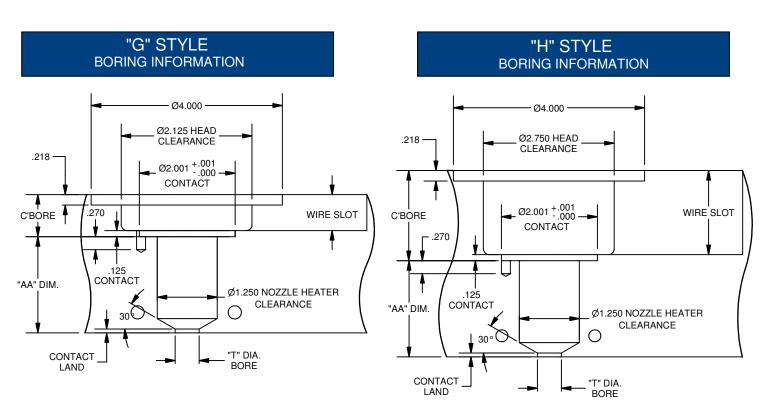
The "AFS" Absolute Flow Style HSN - 100 Series Hot Sprue Nozzle utilizes a Ø.375 resin feed. The "G" Style Nozzle is engineered for general purpose resins and the "H" Style Nozzle is engineered for the toughest High Heat / Heat Sensitive Resins.





AFS-100-G/H BORING





THERMAL EXPANSION NOTE

TIP INFORMATION		BORING INFORMATION		
"T" DIA.	"L" DIM.	"T" DIA. +.0005 BORE0000	CONTACT LAND	
.500	.125	.5005	.060	
.750	.230	.7505	.080	
1.000	.150	1.0005	.150	

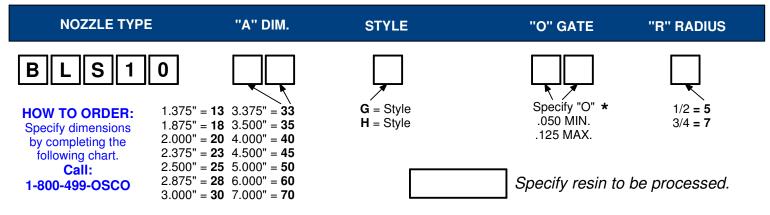
^{*} Note: The information given here should be used as a guide. A variation in growth of any nozzle from the formulation is possible due to cooling conditions or mold configuration. It is advisable to allow a margin of safety. For some very critical applications, an empirical factor may have to be obtained.

BLS-100-G/H HSN

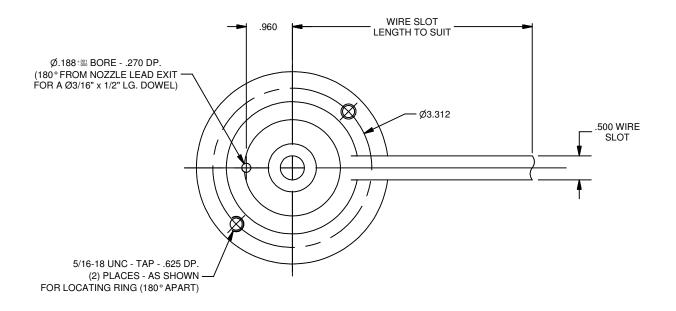
The "BLS" Body Less Style HSN - 100 Series Hot Sprue Nozzle utilizes a Ø.375 resin bore. The "G" Style Nozzle is engineered for general purpose resins and the "H" Style Nozzle is engineered for the toughest High Heat / Heat Sensitive Resins.

"G" STYLE "H" STYLE For Processing Temps (<500°F) For Processing Temps (>500°F) HEAD HEATER Ø.375 **OPTIONAL** Ø.375 "R" RADIUS **FLOW** OPTIONAL "R" RADIUS LOCATING RING FLOW LOCATING RING FLEXIBLE HEATER FLEXIBLE HEATER AND T/C LEADS AND T/C LEADS 1.125 HEAD 1.875 HEAD HEIGHT **HEIGHT** Ø2.000 **HFAD** .125 CONTACT **NOZZLE BODY** Ø2 000 **HEATER HEAD** "A" DIM. **NOZZLE BODY** Ø1.250 HEATER HEATER CLEARANCE \bigcirc "A" DIM. Ø1.250 HATER CLEARANCE .125 TIP "T" DIA. SET BACK "T" DIA .125 TIP .010 NEEDLE ★GATE "O" DIA. SET BACK SET BACK GATE "O" DIA. .010 NEEDLE SET BACK Ø.375 Ø.375 **FLOW** "A" DIM. "T" DIA. "T" DIA. **NEEDLE NEEDLE** SET BACK SET BACK 125 TIP .125 TIP SET BACK **GENERAL** FLOW THRU SET BACK **NEEDLE (GNT)** NEEDLE (GNF) **OPTIONAL STANDARD**

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



BLS-100-G/H BORING

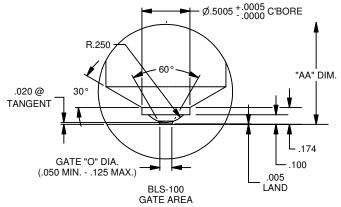


"G" STYLE **BORING INFORMATION** - Ø4.000 -Ø2.125 HEAD **CLEARANCE** Ø2.001 + .001 .218 -CONTACT WIRE SLOT .270 C'BORE 125 CONTACT Ø1.250 NOZZLE HEATER "AA" DIM. **CLEARANCE** 0 30€

"H" STYLE **BORING INFORMATION** Ø4.000 -Ø2.750 HEATER .218 CLEARANCE WIRE SLOT C'BORE Ø2.001 + .001 .270 CONTACT 125 Ø1.250 NOZZLE HEATER CONTACT "AA" DIM. **CLEARANCE** 30**O** 0

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-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 "H" STYLE For Processing Temps (<500°F) For Processing Temps (>500°F) Ø.375 OPTIONAL Ø 375 **FLOW OPTIONAL** "R" RADIUS LOCATING RING **FLOW** "R" RADIUS LOCATING RING BAND HEATER FLEXIBLE HEATER AND T/C LEADS FLEXIBLE HEATER AND T/C LEADS 1.125 HEAD 1.875 HEAD **HEIGHT** HEIGHT Ø2.000 **HFAD** CONTACT NOZZLE BODY Ø2 000 **HEATER** "A" DIM. HEAD CONTACT "A" DIM. **NOZZLE BODY** HEATER GATE "O" DIA. CONTACT LAND GATE "O" DIA. "T" DIA. "I " DIM CONTACT T" DIA. LAND "L" DIM. Ø.375 Ø.375 Ø.375 Ø.375 FLOW FLOW FLOW **FLOW** "A" DIM.

THERMAL EXPANSION NOTE

GATE "O" DIA. -

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

GENERAL

NEEDLE (GNT) STANDARD GATE "O" DIA. -

FLOW THRU NEEDLE (GNF)

OPTIONAL

"A" DIM. "T" TIP **NOZZLE TYPE STYLE** "L" LAND "O" GATE "R" RADIUS **G** = Style Std.=S 1/2 = 5 $5 = \emptyset.500$ $05 = \emptyset.050$ 1.375" = **13** 3.375" = **33 H** = Style 3/4 = 7 $7 = \emptyset.750$ Extra **HOW TO ORDER:** 1.875" = **18** 3.500" = **35** $08 = \emptyset.080$ $1 = \emptyset 1.000$ Stock=X $2.000" = 20 \ 4.000" = 40$ $12 = \emptyset.125$ Specify dimensions 2.375" = **23** 4.500" = **45** by completing the following chart. $2.500" = 25 \quad 5.000" = 50$ 2.875" = 28 6.000" = 60Specify resin to be processed. Call: $3.000" = 30 \ 7.000" = 70$ 1-800-499-OSCO

GENERAL NEEDLE (GNT)

EXTRA STOCK TIP

STANDARD

GATE "O" DIA.

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

STD.

FIT

GATE "O" DIA.

FLOW THRU NEEDLE (GNF)

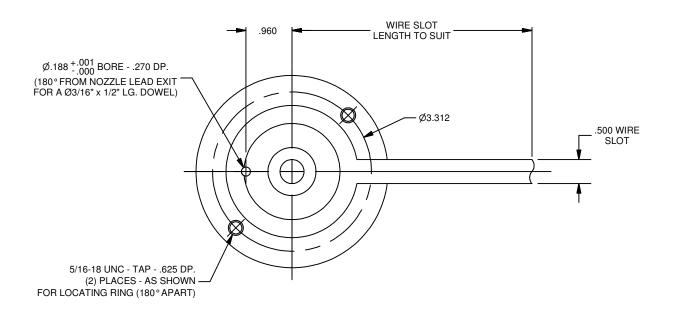
EXTRA STOCK TIP

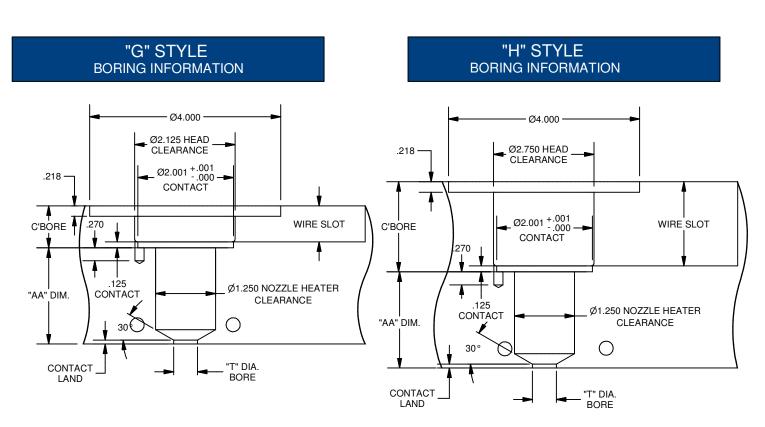
OPTIONAL

.750 OPTIONAL

EXTRA STOCK

FBS-100-G/H BORING





THERMAL EXPANSION NOTE

TIP INFORMATION		BORING INFORMATION		
"T" DIA.	"L" DIM.	"T" DIA. +.0005 BORE0000	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 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.

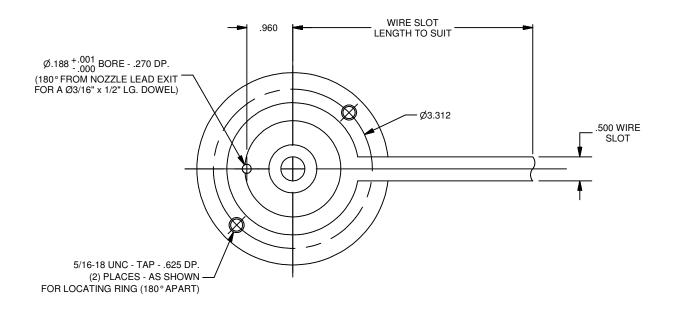
"G" STYLE "H" STYLE For Processing Temps (<500°F) For Processing Temps (>500°F) Ø.375 OPTIONAL Ø.375 **OPTIONAL** FLOW "R" RADIUS LOCATING RING FLOW LOCATING RING "R" RADIUS FLEXIBLE HEATER **HEAD HEATER** AND T/C LEADS FLEXIBLE HEATER AND T/C LEADS 1.125 HEAD 1.875 HEAD HEIGHT HEIGHT HEAD Ø2.000 NOZZLE HEAD 125 CONTACT "A" DIM. HEAD CONTACT **HEATER** NOZZLE HEAD Ø1.250 HEATER "A" DIM. **HEATER CLEARANCE** Ø1.250 HEATER O CLEARANCE CONTACT T" DIA. LAND CONTACT "L" DIM. -3/4 "T" DIA. GATE "O" DIA. LAND - GATE "O" DIA. "L" DIM. **FULL TIP RADIUS PARTIAL TIP RADIUS** "A" DIM. THERMAL "A" DIM. (COLD) **EXPANSION** (COLD) "AA" DIM (HOT) "AA" DIM. **THERMAL EXPANSION** (HOT) 3/4 OF "T" DIA. THERMAL EXPANSION NOTE **SHOWN HOT** "AA" DIM. = "A" DIM. + THERMAL EXPANSION

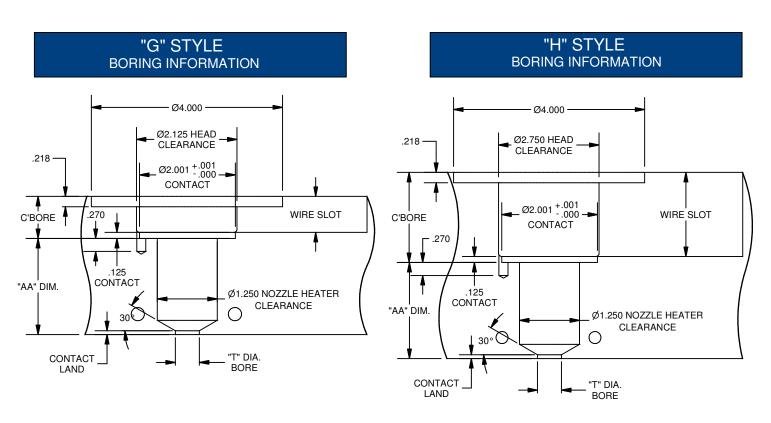
NOZZLE TYPE	"A" DIM.	STYLE	"T" TIP	DIMPLE	"O" GATE "R"	RADIUS
Specify dimensions by completing the following chart. Call: 1-800-499-OSCO 1.8 2.0 2.1 2.5 2.5	0 375" = 13 3.375" = 33 375" = 18 3.500" = 35 3000" = 20 4.000" = 40 375" = 23 4.500" = 45 500" = 25 5.000" = 50 375" = 28 6.000" = 60 300" = 30 7.000" = 70	G = Style H = Style	5 = Ø.500 7 = Ø.750 1 = Ø1.000	F = "T" DIA. P = 3/4 OF "T" DIA. Specify re	05 = Ø.050 08 = Ø.080 12 = Ø.125 esin to be proces	1/2 = 5 3/4 = 7

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

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

RGS-100-G/H BORING





THERMAL EXPANSION NOTE

TIP INFORMATION		BORING INFORMATION		
"T" DIA.	"L" DIM.	"T" DIA. +.0005 BORE0000	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.

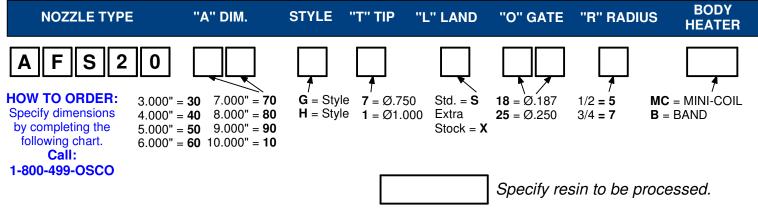
AFS-200-G/H HSN

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.

"H" STYLE "G" STYLE For Processing Temps (<500°F) For Processing Temps (>500°F) OPTIONAL Ø.500 FLOW Ø.500 **OPTIONAL** LOCATING RING LOCATING RING "R" RADIUS HEAD HEATER "R" RADIUS FLEXIBLE HEATER FLEXIBLE HEATER AND T/C LEADS AND T/C LEADS 1.250 HEAD HEIGHT 2.500 HEAD **HEIGHT** Ø3.000 **HEAD NOZZLE BODY HEATER** Ø3 000 CONTACT "A" DIM **HEAD** CLEARANCE **NOZZLE BODY** Ø2.000 COIL CONTACT **HEATER** Ø2.500 BAND "A" DIM. **CLEARANCE** Ø2.000 COIL Ø2.500 BAND CONTACT "T" DIA LAND "L" DIM. CONTACT T" DIA LAND "L" DIM. Ø.500 Ø.500 Ø.500 Ø.500 FLOW FLOW FLOW **FLOW** "A" DIM. 30° .750 OPTIONAL EXTRA STOCK Ø.250 Ø.187 Ø.187 - "O" DIA. **STANDARD RADIUS FLOW** HIGH FLOW **EXTRA STOCK** TIP OPTION TIP OPTION **TIP OPTION**

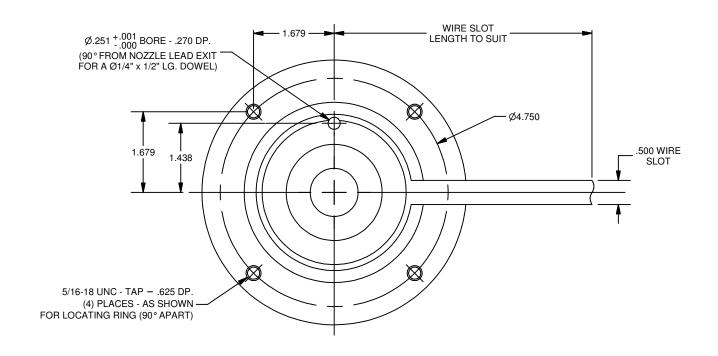
THERMAL EXPANSION NOTE

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



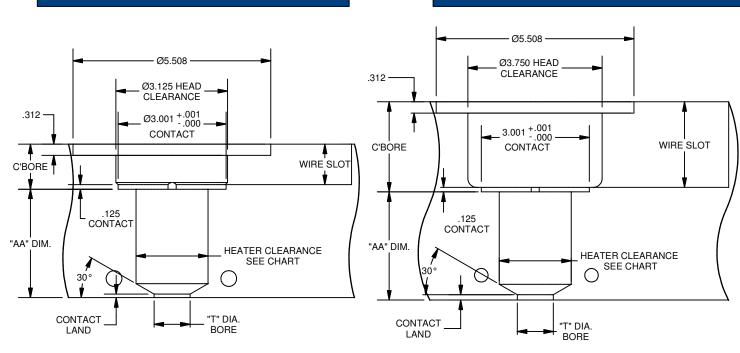
NOTE: For sizes other than shown, please contact Osco Tech Service.

AFS-200-G/H BORING



"G" STYLE BORING INFORMATION

"H" STYLE BORING INFORMATION



THERMAL EXPANSION NOTE

TIP INFORMATION		BORING INFORMATION		
"T" DIA.	"L" DIM.	"T" DIA. +.0005 BORE0000	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 "H" STYLE For Processing Temps (<500°F) For Processing Temps (>500°F) OPTIONAL **OPTIONAL** Ø.500 LOCATING RING Ø.500 LOCATING RING **FLOW FLOW** "R" RADIUS FLEXIBLE HEATER "R" RADIUS HEAD HEATER AND T/C LEADS FLEXIBLE HEATER AND T/C LEADS 1.250 HEAD **HEIGHT** 2.500 HEAD HEIGHT Ø3.000 **HEAD NOZZLE BODY** CONTACT **HEATER** "A" DIM. Ø2.750 HEAD CLEARANCE Ø2.000 COIL NOZZLE BODY Ø2.500 BAND CONTACT **HEATER** "A" DIM. **CLEARANCE** Ø2.000 COIL "T" DIA. Ø2.500 BAND GATE **%**0" DIA. "T" DIA GATE "❸" DIA. Ø.500 Ø.500 FLOW FLOW "A" DIM. "T" DIA. "T" DIA. .150 TIP 150 TIP SET BACK SET BACK NEEDLE **NEEDLE** GENERAL FLOW THRU SET BACK SET BACK

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
B L S 2 HOW TO ORDER: Specify dimensions by completing the following chart. Call: 1-800-499-OSCO	3.000" = 30 7.000" = 70 4.000" = 40 8.000" = 80 5.000" = 50 9.000" = 90 6.000" = 60 10.000" = 10	G = Style H = Style	Specify "O" * 1/2 = 5 MC = MINI-COIL MIN. = .080 3/4 = 7 B = BAND Specify resin to be processed.

NEEDLE (GNF)

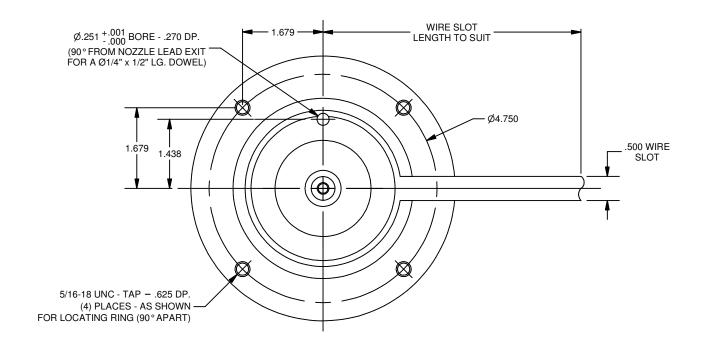
OPTIONAL

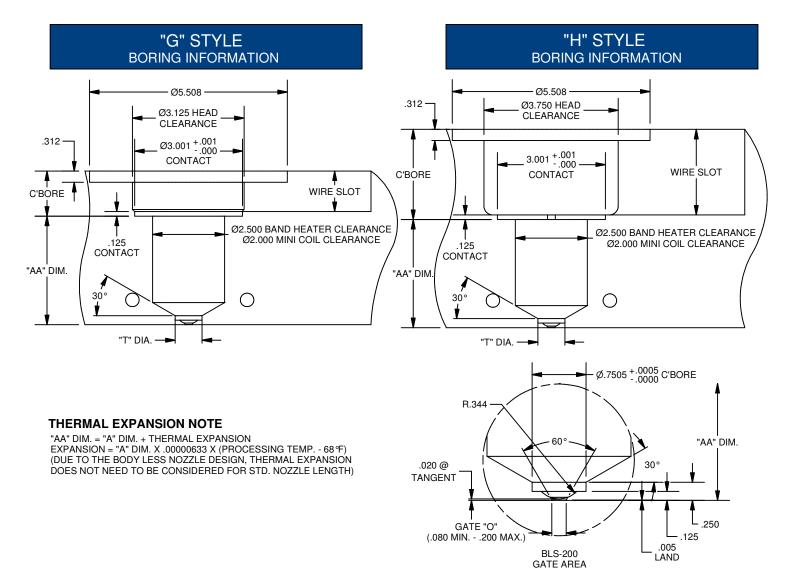
NOTE: For sizes other than shown, please contact Osco Tech Service.

NEEDLE (GNT)

STANDARD

BLS-200-G/H BORING

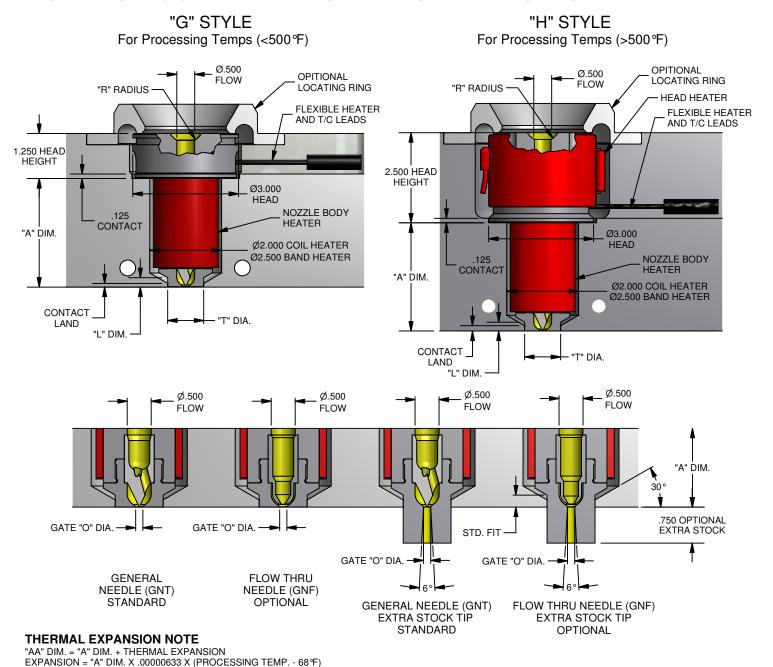


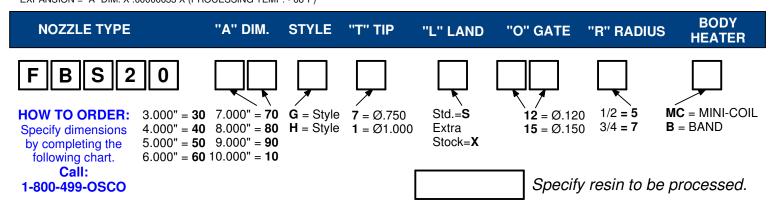


[★] Note: The information given here should be used as a guide. A variation in growth of any nozzle from the formulation is possible due to cooling conditions or mold configuration. It is advisable to allow a margin of safety. For some very critical applications, an empirical factor may have to be obtained.

FBS-200-G/H HSN

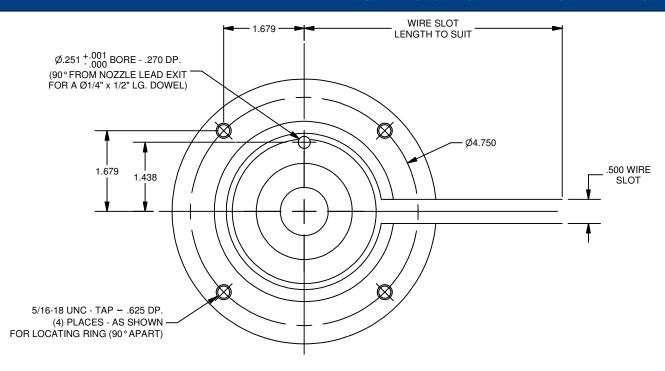
The "FBS" Full Body Style HSN - 200 Series Hot Sprue Nozzle utilizes a Ø.500 resin bore. The "G" Style Nozzle is engineered for general purpose resins and the "H" Style Nozzle is engineered for the toughest High Heat / Heat Sensitive Resins.





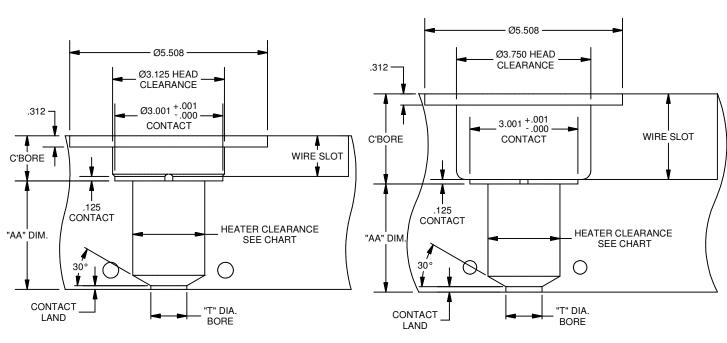
NOTE: For sizes other than shown, please contact Osco Tech Service.

FBS-200-G/H BORING



"G" STYLE BORING INFORMATION

"H" STYLE BORING INFORMATION



THERMAL EXPANSION NOTE

TIP INFORMATION		BORING INFORMATION		
"T" DIA.	"L" DIM.	"T" DIA. +.0005 BORE0000	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.

"G" STYLE "H" STYLE For Processing Temps (<500°F) For Processing Temps (>500°F) OPTIONAL Ø.500 Ø.500 LOCATING RING "R" RADIUS OPTIONAL **FLOW** FLOW "R" RADIUS LOCATING RING FLEXIBLE HEATER AND T/C LEADS **HEAD HEATER** FLEXIBLE HEATER 1.250 HEAD AND T/C LEADS **HEIGHT** 2.500 HEAD HEIGHT Ø3.000 **HEAD NOZZLE BODY** .125 **HEATER** CONTACT Ø3.000 "A" DIM. **CLEARANCE** HEAD Ø2.000 COIL NOZZLE BODY 0 Ø2.500 BAND **HEATER** CONTACT "A" DIM. **CLEARANCE** Ø2.000 COIL 0 О Ø2.500 BAND CONTACT T" DIA. LAND "I " DIM GATE "O" DIA. CONTACT 3/4 OF "T" DIA. LAND GATE "O" DIA. "L" DIM. **FULL TIP RADIUS PARTIAL TIP RADIUS** "A" DIM. "A" DIM. (COLD) (COLD) THERMAL **EXPANSION** "AA" DIM. (HOT) "AA" DIM. (HOT) **THERMAL EXPANSION** - "T" DIA. 🖚 3/4 OF "T" DIA. **SHOWN HOT** THERMAL EXPANSION NOTE "AA" DIM. = "A" DIM. + THERMAL EXPANSION

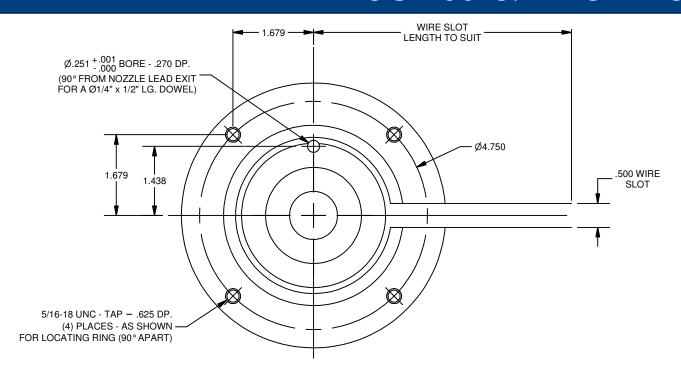
NOZZLE TYP	E "A" DIM.	STYLE	"T" TIP	DIMPLE	"O" GATE	"R" RADIUS
R G S 2 HOW TO ORDER Specify dimensions by completing the following chart. Call: 1-800-499-OSCO	4.000" = 40 5.000" = 50 6.000" = 60 7.000" = 70	G = Style H = Style	7 = Ø.750 1 = Ø1.000	F = "T" DIA. P = 3/4 OF "T" DIA	12 = Ø.120 15 = Ø.150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

OSCO° inc.

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

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

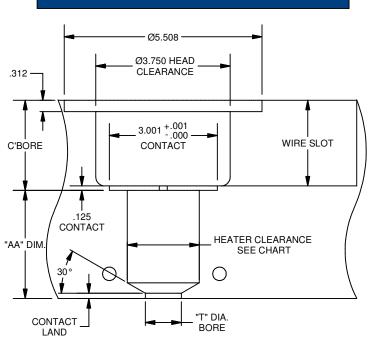
RGS-200-G/H BORING



"G" STYLE BORING INFORMATION

Ø5.508 -Ø3.125 HEAD CLEARANCE Ø3.001 ^{+.001} _{-.000} .312 -CONTACT C'BORE WIRE SLOT .125 CONTACT HEATER CLEARANCE "AA" DIM. SEE CHART CONTACT T" DIA LAND **BORE**

"H" STYLE BORING INFORMATION



THERMAL EXPANSION NOTE

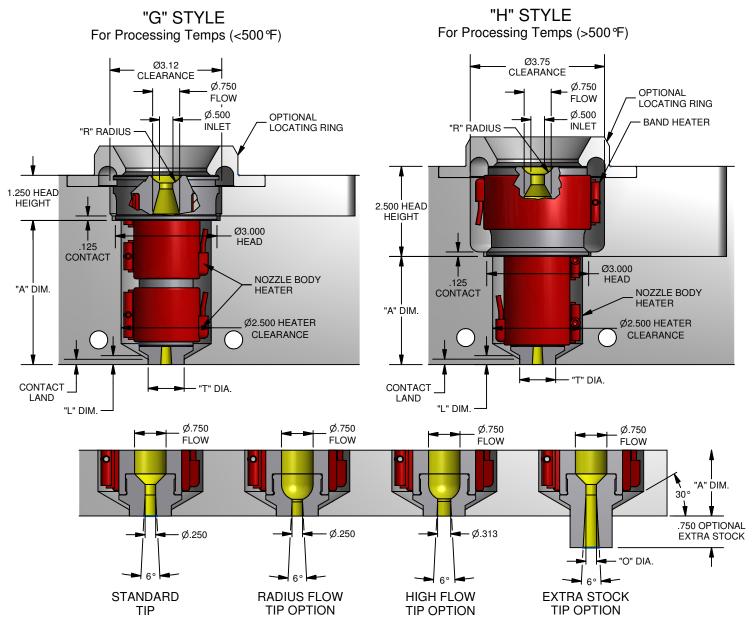
TIP INFORMATION		BORING INFORMATION		
"T" DIA.	"L" DIM.	"T" DIA. +.0005 BORE0000	CONTACT LAND	
.750	.187	.7505	.050 MIN.	
1.000	.250	1.0005	.050 MIN.	

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 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.



THERMAL EXPANSION NOTE

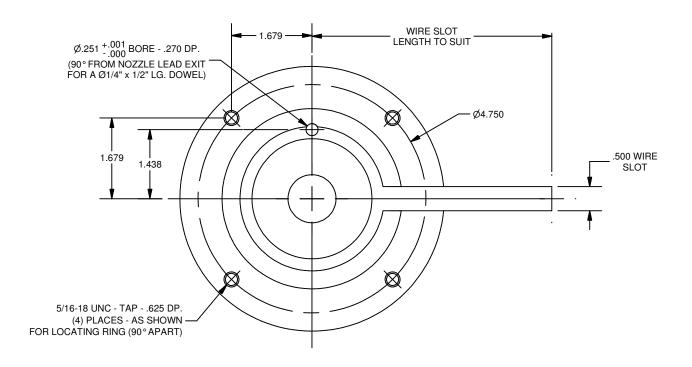
"AA" DIM. = "A" DIM. + THERMAL EXPANSION EXPANSION = "A" DIM. X .00000633 X (PROCESSING TEMP. - 68°F)

	,					
NOZZLE TYPE	"A" DIM. STYL	E "T" TIP	"L" LAND	"O" GATE	"R" RADIUS	BODY HEATER
by completing the following chart 4.000" = 40 5.000" = 50	7.000" = 70 G = Si 8.000" = 80 H = Si 9.000" = 90 110.000" = 10		0 Std. = S Extra Stock = X	25 = Ø.250 31 = Ø.312	1/2 = 5 3/4 = 7 resin to be pro	MC = MINI-COIL B = BAND

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.

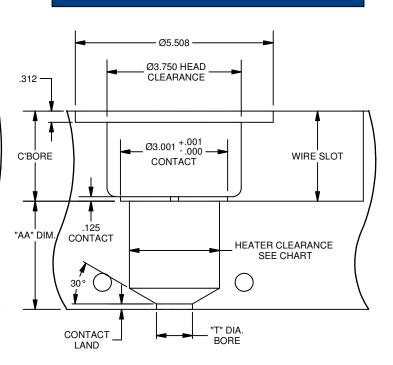
AFS-300-G/H BORING



"G" STYLE BORING INFORMATION

Ø5.508 -Ø3.125 HEAD CLEARANCE Ø3.001 ^{+.001} _{-.000} .312 CONTACT WIRE SLOT C'BORE .125 CONTACT "AA" DIM HEATER CLEARANCE SEE CHART 30° CONTACT **BORE** LAND

"H" STYLE BORING INFORMATION



THERMAL EXPANSION NOTE

TIP INFORMATION		BORING INFORMATION		
"T" DIA.	"L" DIM.	"T" DIA. +.0005 BORE0000	CONTACT LAND	
.750	.187	.7505	.100	
1.000	.250	1.0005	.150	

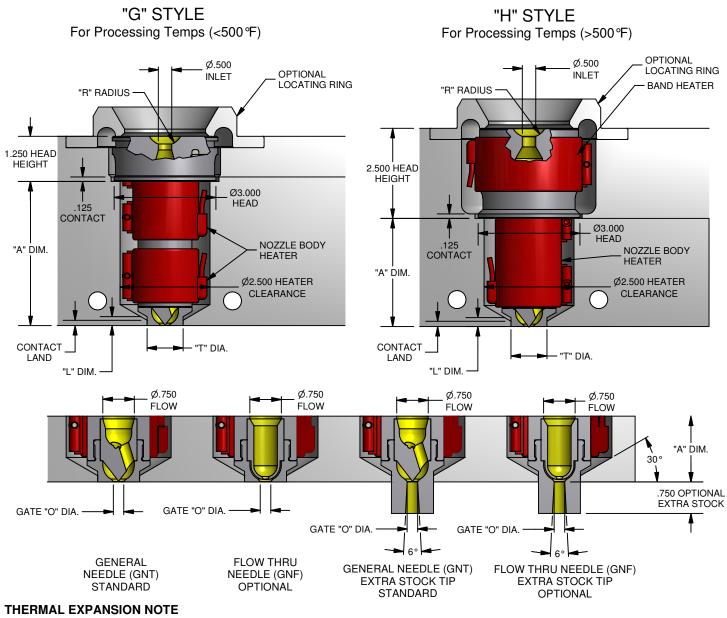
BODY HEATER	CLEARANCE REQUIRED
"MC" MINI COIL HEATER	2.000 DIA.
"BH" BAND HEATER	2.500 DIA.

^{*} 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.

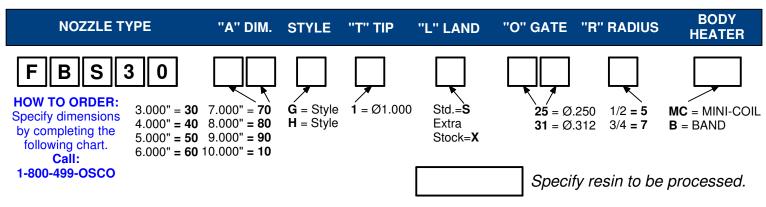


FBS-300-G/H HSN

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.

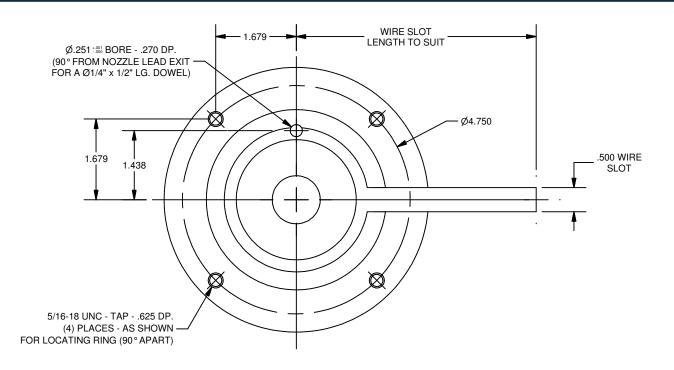


"AA" DIM. = "A" DIM. + THERMAL EXPANSION EXPANSION = "A" DIM. X .00000633 X (PROCESSING TEMP. - 68°F)



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

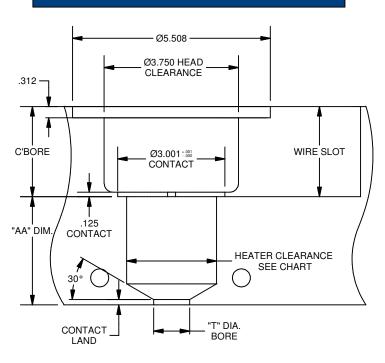
FBS-300-G/H BORING



"G" STYLE BORING INFORMATION

Ø5.508 -Ø3.125 HEAD CLEARANCE .312 Ø3.001 ± .001 CONTACT WIRE SLOT C'BORE .125 CONTACT "AA" DIM. HEATER CLEARANCE SEE CHART 30° "T" DIA. CONTACT BORE LAND

"H" STYLE BORING INFORMATION



THERMAL EXPANSION NOTE

TIP INFORMATION		BORING INFORMATION		
"T" DIA.	"L" DIM.	"T" DIA. +.0005 BORE0000	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.