

“SOLUTION” Molding Machine Nozzles.....For Reliability And Performance

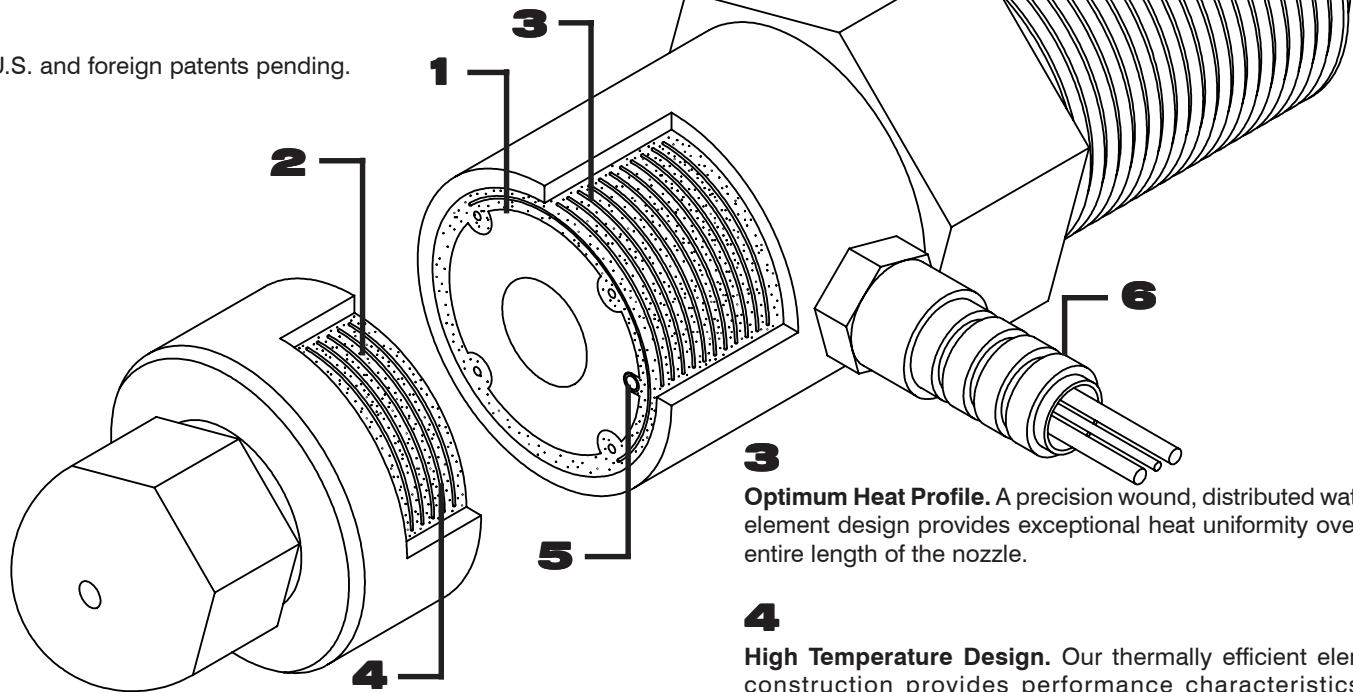
The impressive "SOLUTION" nozzle construction establishes a level of durability and performance far surpassing that of other machine nozzles. Our unique construction creates an incredibly compact, high strength nozzle capable of reliable performance under the most severe operating conditions.

The "SOLUTION" integral heated nozzle design provides the temperature uniformity essential to quality molding of all thermoplastic resins.

A mineral insulated thermocouple installed into the "SOLUTION" nozzles' integral thermowell provides rapid response to changing process conditions and the precise temperature control demanded by heat sensitive resins.

"SOLUTION" nozzle performance has been extensively evaluated in a variety machine applications and has been acknowledged as the best choice for processing of both commodity and engineering resins.

U.S. and foreign patents pending.



1

High Strength Construction. A combination of high quality H13 tool steel, a substantial metal cross-section and our swaged, ultra thin element construction maximizes nozzle mechanical strength.

2

Reliable Integral Heat. The ultra thin mass of compacted ceramic surrounding the embedded element wire maximizes heat transfer efficiency and results in dramatically reduced element temperatures.

3

Optimum Heat Profile. A precision wound, distributed wattage element design provides exceptional heat uniformity over the entire length of the nozzle.

4

High Temperature Design. Our thermally efficient element construction provides performance characteristics far surpassing that of all other nozzle designs.

5

Superior Temperature Control. The thermocouple is located within the central metal core of the nozzle for precise and responsive control of melt passage surface temperatures.

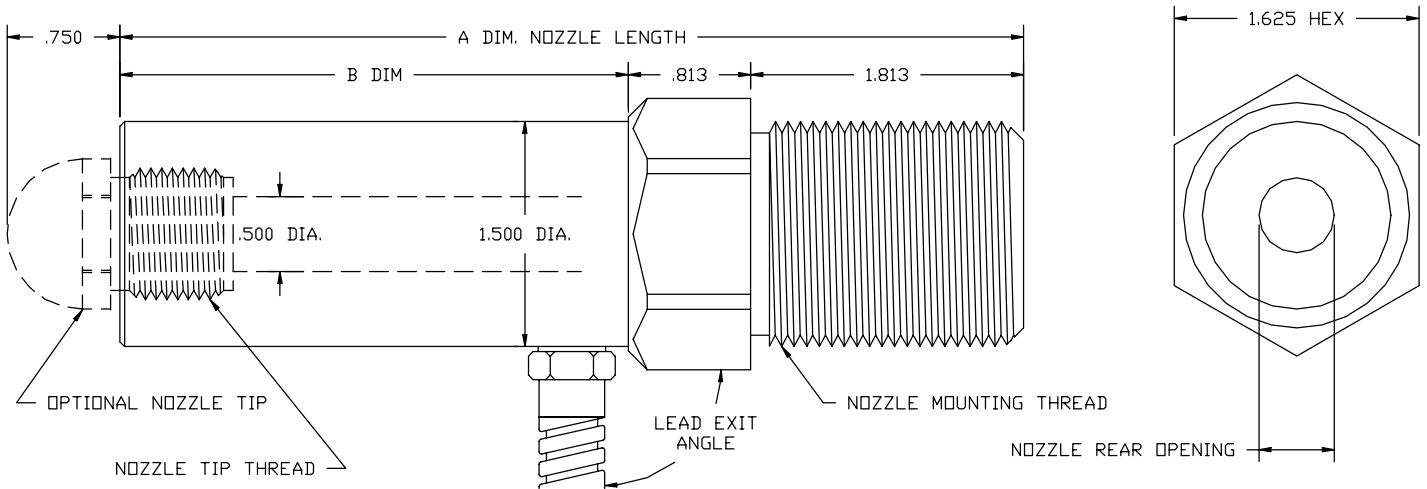
6

Rugged Lead Systems. External leads are securely attached to the internal conductors of the bushing element and sealed to prevent contaminants from entering the element assembly. Lead protection provides resistance to mechanical abuse.

Standard "SOLUTION" nozzles feature configurations and lengths suitable for use in a variety of injection molding machines. Standard variations include optional thread sizes, rear openings, lead exit styles and lead protection systems.

Custom "SOLUTION" nozzles are readily available and can be supplied in a wide variety of special diameters, lengths and configurations suitable for use in a wide range of machine applications. Special nozzle body materials can be supplied to minimize wear and/or corrosion.

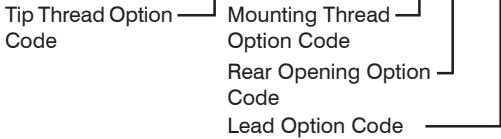
"SOLUTION" 1500 Machine Nozzles And Options



How To Order - Select the desired nozzle from the stock list in the right hand column. Standard items conform to the drawing above. To order, replace standard option codes in the product number with your option codes selected from the tables below. Order the optional thermocouple as a separate line item on your order. Standard components are designed for 240 volt operation. Special voltage or wattage ratings can be supplied if required. Nozzle tips are not supplied with the nozzle but can be ordered as a separate item from the stock lists at the lower right corner.

Product Number	A Dim.	B Dim.	Watts
MNA-1500-5.00-B50A90	5.000	2.375	535
MNA-1500-6.00-B50A90	6.000	3.375	655
MNA-1500-7.00-B50A90	7.000	4.375	770
MNA-1500-8.00-B50A90	8.000	5.375	890
MNA-1500-9.00-B50A90	9.000	6.375	1005
MNA-1500-10.00-B50A90	10.000	7.375	1125
MNA-1500-11.00-B50A90	11.000	8.375	1240
MNA-1500-12.00-B50A90	12.000	9.375	1360
MNA-1500-13.00-B50A90	13.000	10.375	1480
MNA-1500-14.00-B50A90	14.000	11.375	1595

MN A - 1500 - 5.00 - B 50 A90

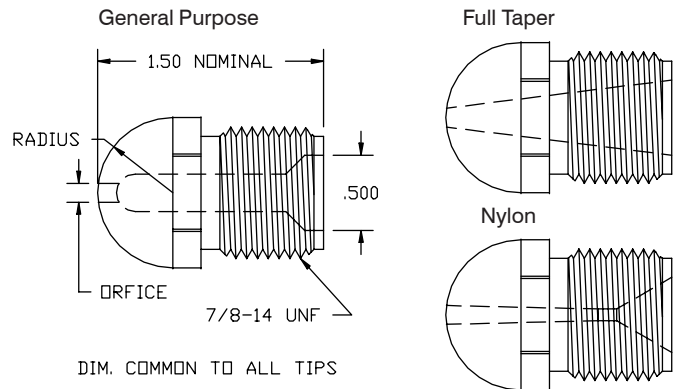


Tip Thread Options	Availability	Option Code
Standard 7/8-14 UNF	Stock	A

Mounting Thread Options	Availability	Option Code
1 1/4-12 Thread	Stock	A
1 1/2-12 Thread	Stock	B
1 3/4-8 Thread	Stock	C

Rear Opening Options	Availability	Option Code
.50 Diameter Rear Opening	Stock	50
.75 Diameter Rear Opening	Stock	75

Lead Exit Options	Availability	Option Code
Armor And Leads @ 90 Deg.	Stock	A90
Armor And Leads @ 45 Deg.	Stock	A45



Type	Radius	.125 Orifice	.187 Orifice	.250 Orifice
General Purpose	.50	NTG50-125	NTG50-187	NTG50-250
	.75	NTG75-125	NTG75-187	NTG75-250
Full Taper	.50	NTT50-125	NTT50-187	NTT50-250
	.75	NTT75-125	NTT75-187	NTT75-250
Nylon	.50	NTN50-125	NTN50-187	NTN50-250
	.75	NTN75-125	NTN75-187	NTN75-250