



**anderson & forrester™**

**Service  
Products for  
Natural Gas &  
Liquid Propane  
Applications**

**Gauging Drills**

**Broaches**

**Reamers**

**Valves**

**Burner Jets**

**Orifices**

**Compression  
Fittings**

**Special Tools**

**Accessories**

**Catalog 33**

**August 2015**



# About Us



## Our Past and Future

From the beginning in 1928, and as outlined in our Catalog #11 above from 1959, the focus and mission of Anderson & Forrester has been to provide quality products and outstanding customer service. As in the beginning, Anderson & Forrester continues these attributes.

As the markets we serve continue to evolve, we remain committed to uncompromising quality and customer satisfaction. Our focus is to be the “one source” provider for any original equipment manufacturer for their natural

gas and propane orifice and conversion fitting needs, and to be the top supplier of replacement parts, gauging drills, broaches, reamers, and special tools in support of the gas service industry.

We value the customer relationships we have and look to expand our business by growth from the original equipment manufacturer, distributors, and direct customers throughout the United States and beyond.



# Popular Products



**GDK4080**

**VA103 &  
VA000-A1**

**RS827**

**TL102**

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ANDERSON & FORRESTER has a full line of production equipment for manufacturing custom orifices. We supply custom fittings to Original Equipment Manufacturers according to their specifications.

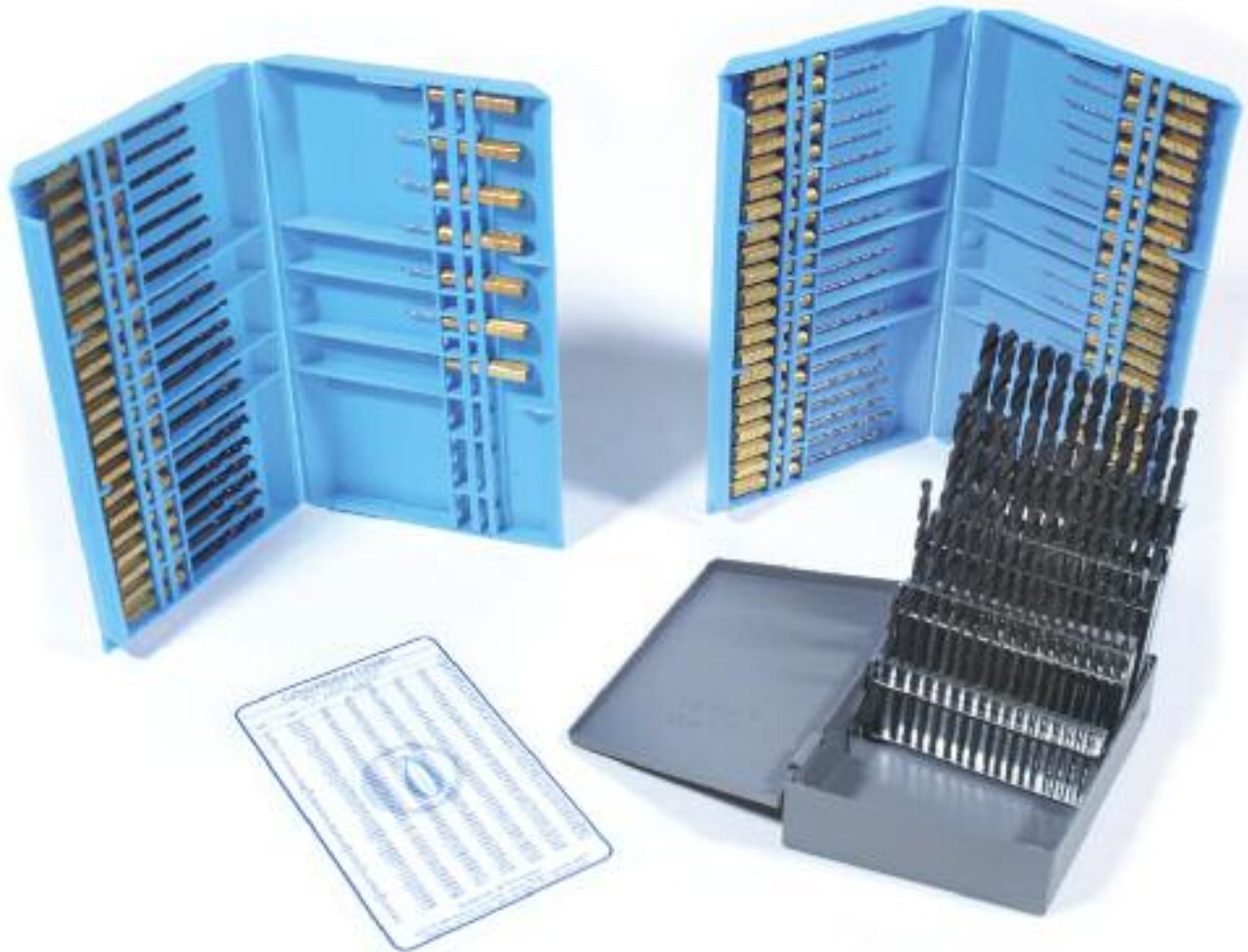
- Sheet metal fabrication
- Complex turning and drilling
- Precision screw machine work

Terms: Net 30 days with approved credit  
F.O.B.: Wheat Ridge, Colorado  
Minimum Billing: \$35.00

Return Policy: All returns must have return authorization number from customer service.  
A 25% restocking fee will apply to merchandise that is not defective.

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# Gauging Drill Kits



**These gauging drills are a must have for the service technician.**

We have created the most popular drill combinations into individual kits and these kits are offered at a considerable cost savings! Each kit, except the GDK0160 which comes only in a metal case, is provided in our durable heavy gauge plastic case with a tight claps and features easy drill removal and replacement. The drills fit snugly and cannot fall out. Drills kits can be custom made to your specifications.

Kit Part #	Contents of Kit	Kit Case
GDK0160	60 Gauging Drills without handles. GD1001 through GD1060.	Metal Case Only
GDK1939	21 Gauging Drills with handles. GD0019 through GD0039	Standard Plastic Case*
GDK1960	42 Gauging Drills with handles. GD0019 through GD0060.	Standard Plastic Case*
GDK1985	31 Total Gauging Drills with handles..... 27 Gauging Drills GD0019 through GD0039 <b>plus GD0180 through GD0185 Heavy Shank</b>	Standard Plastic Case*
GDK4080	41 Gauging Drills with handles. GD0040 through GD0080..... <b>Plus the GB3020 tapered broach with handle</b>	Standard Plastic Case*
GDK4080HS	41 Total Gauging Drills with handles. GD0040 through GD0069, GD0072..... and Heavy Shank GD0077. GD0170, GD0171, GD0173, GD0174, GD0175, GD0176, GD0178, GD0179, and GD0180 <b>Plus the GB3020 tapered broach with handle</b>	Standard Plastic Case*
GDK6080	21 Gauging Drills with handles. GD0060 through GD0080	Standard Plastic Case*
GDK7085HS	16 Gauging Drills with handles..... <b>GD0170 through GD1085 Heavy Shank</b> Except GD0072 and GD0077 are regular shank	Standard Plastic Case*







# Gauging Drill Kits

## Fractional Gauging Drill Kit without Handles



Kit Part #	Contents of Kit	Kit Case
GDK1/16-1/2.....	29 Gauging Drills without handles ..... Fractional sizes from 1/16" to 1/2"	Metal Case Only

## Fractional, Number & Letter Gauging Drill Kit without Handles



Kit Part #	Contents of Kit	Kit Case
GDK3-in-1.....	100 Gauging Drills without handles ..... Fractional sizes from 0/00" to 0/0" Number sizes from 000 to 000 Letter sizes from A to Z	Metal Case Only

## Letter Gauging Drill Kit without Handles



Kit Part #	Contents of Kit	Kit Case
GDK-A-Z .....	26 Gauging Drills without handles ..... Letter sizes from A to Z	Metal Case Only

## Metal Case for Gauging Drill Kits



This is a very popular metal drill case redesigned to allow the user the visually inspect all the drills...but with added protection.

Part #
SC4080M.....

Add "M" to the Gauging Drill Kit ordered.



# Gauging Drills

## Gauging Drills WITH Handles



### Exclusive pressure-bonded high-speed steel gauging drills.

Small diameter precision drills for sizing gas orifices, burners and carburetor jets. A&F's exclusive pressure bonding process provides much closer concentricity than models that are glued together. This enables the serviceman to maintain much closer hole size tolerances. Straight shank drills are available with 1/4 inch hex handles in sizes #19 - #80 and with heavy shanks down to #85. The number drill size is stamped on the side of the handle for easy identification. Gauging drills are also available without handles in sizes ranging from #1- #80 (see page 18 for part numbers). See orifice capacities chart on page 41 for drill sizes in decimal inches.

Part #	Size	Part #	Size	Part #	Size
GD0019.....	#19	GD0040.....	#40	GD0061.....	#61
GD0020.....	#20	GD0041.....	#41	GD0062.....	#62
GD0021.....	#21	GD0042.....	#42	GD0063.....	#63
GD0022.....	#22	GD0043.....	#43	GD0064.....	#64
GD0023.....	#23	GD0044.....	#44	GD0065.....	#65
GD0024.....	#24	GD0045.....	#45	GD0066.....	#66
GD0025.....	#25	GD0046.....	#46	GD0067.....	#67
GD0026.....	#26	GD0047.....	#47	GD0068.....	#68
GD0027.....	#27	GD0048.....	#48	GD0069.....	#69
GD0028.....	#28	GD0049.....	#49	GD0070.....	#70
GD0029.....	#29	GD0050.....	#50	GD0071.....	#71
GD0030.....	#30	GD0051.....	#51	GD0072.....	#72
GD0031.....	#31	GD0052.....	#52	GD0073.....	#73
GD0032.....	#32	GD0053.....	#53	GD0074.....	#74
GD0033.....	#33	GD0054.....	#54	GD0075.....	#75
GD0034.....	#34	GD0055.....	#55	GD0076.....	#76
GD0035.....	#35	GD0056.....	#56	GD0077.....	#77
GD0036.....	#36	GD0057.....	#57	GD0078.....	#78
GD0037.....	#37	GD0058.....	#58	GD0079.....	#79
GD0038.....	#38	GD0059.....	#59	GD0080.....	#80
GD0039.....	#39	GD0060.....	#60		

## Large Shank Gauging Drills WITH Handles



### Exclusive pressure-bonded large shank high-speed steel gauging drills.

Reinforced shanks for longer drill life. Micro sizes down to .008" diameter. Exclusive with Anderson & Forrester. See orifice capacities chart on page 41 for drill sizes in decimal inches.

Part #	Size	Part #	Size	Part #	Size
GD0170.....	#70	GD0176.....	#76	GD0181.....	#81 (.012)
GD0171.....	#71	GD0177.....	#77	GD0182.....	#82 (.011)
GD0172.....	#72	GD0178.....	#78	GD0183.....	#83 (.010)
GD0173.....	#73	GD0179.....	#79	GD0184.....	#84 (.009)
GD0174.....	#74	GD0180.....	#80	GD0185.....	#85 (.008)
GD0175.....	#75				

# Gauging Drills

## Gauging Drills WITHOUT Handles



### Exclusive pressure-bonded high-speed steel gauging drills.

High-speed gauging drill sold without hex handles, to enable servicemen to use with TL072 pinvise or small electric drill. See orifice capacities chart on page 41 for drill sizes in decimal inches.

Part #	Size	Part #	Size	Part #	Size
GD1001	.....#1	GD1028	.....#28	GD1055	.....#55
GD1002	.....#2	GD1029	.....#29	GD1056	.....#56
GD1003	.....#3	GD1030	.....#30	GD1057	.....#57
GD1004	.....#4	GD1031	.....#31	GD1058	.....#58
GD1005	.....#5	GD1032	.....#32	GD1059	.....#59
GD1006	.....#6	GD1033	.....#33	GD1060	.....#60
GD1007	.....#7	GD1034	.....#34	GD1061	.....#61
GD1008	.....#8	GD1035	.....#35	GD1062	.....#62
GD1009	.....#9	GD1036	.....#36	GD1063	.....#63
GD1010	.....#10	GD1037	.....#37	GD1064	.....#64
GD1011	.....#11	GD1038	.....#38	GD1065	.....#65
GD1012	.....#12	GD1039	.....#39	GD1066	.....#66
GD1013	.....#13	GD1040	.....#40	GD1067	.....#67
GD1014	.....#14	GD1041	.....#41	GD1068	.....#68
GD1015	.....#15	GD1042	.....#42	GD1069	.....#69
GD1016	.....#16	GD1043	.....#43	GD1070	.....#70
GD1017	.....#17	GD1044	.....#44	GD1071	.....#71
GD1018	.....#18	GD1045	.....#45	GD1072	.....#72
GD1019	.....#19	GD1046	.....#46	GD1073	.....#73
GD1020	.....#20	GD1047	.....#47	GD1074	.....#74
GD1021	.....#21	GD1048	.....#48	GD1075	.....#75
GD1022	.....#22	GD1049	.....#49	GD1076	.....#76
GD1023	.....#23	GD1050	.....#50	GD1077	.....#77
GD1024	.....#24	GD1051	.....#51	GD1078	.....#78
GD1025	.....#25	GD1052	.....#52	GD1079	.....#79
GD1026	.....#26	GD1053	.....#53	GD1080	.....#80
GD1027	.....#27	GD1054	.....#54		

## Large Shank Gauging Drills WITHOUT Handles



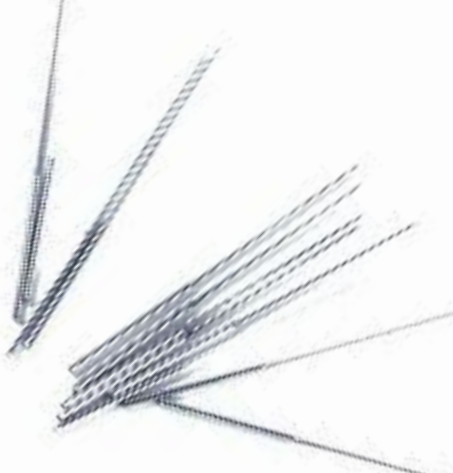
### Exclusive pressure-bonded large shank high-speed steel gauging drills.

Reinforced shanks for longer drill life. Micro sizes down to .008" diameter. Exclusive with Anderson & Forrester. See orifice capacities chart on page 41 for drill sizes in decimal inches.

Part #	Size	Part #	Size	Part #	Size
GD1170	.....#70	GD1176	.....#76	GD1181	.....#81 (.012)
GD1171	.....#71	GD1177	.....#77	GD1182	.....#82 (.011)
GD1172	.....#72	GD1178	.....#78	GD1183	.....#83 (.010)
GD1173	.....#73	GD1179	.....#79	GD1184	.....#84 (.009)
GD1174	.....#74	GD1180	.....#80	GD1185	.....#85 (.008)
GD1175	.....#75				

# Broaches & Reamers

## Tapered Broach without Handle



To serve multiple purposes, tapered broaches are offered in the individual sizes as shown below. They are offered in the four cornered and three cornered style.

Each individual size are sold by the dozen.

Part #	Description	Size
GB1008.....	Four cornered style.....	Tapered from .008" to .017"
GB1010.....	Four cornered style.....	Tapered from .010" to .017"
GB1012.....	Four cornered style.....	Tapered from .012" to .017"
GB3015.....	Three cornered style.....	Tapered from .003" to .013"

An absolute must for cleaning Pilot Orifices.

## Tapered Broach with Handle



This handy 3 cornered broach is the GB3015, but with a handle for ease of use. It is tapered from .003" to .013".

This item is sold individually.

Part #	Description	Size
GB3020.....	Three cornered style.....	Tapered from .003" to .013"

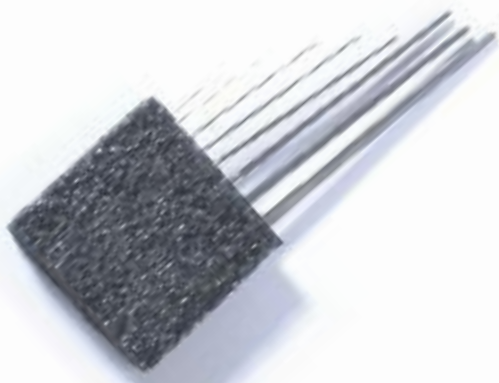
## Gauging Reamer



Five cornered reamers in packages of 5.

Part #	Size	Decimal Inches
GR5020 .....	#20.....	0.104 to 0.145
GR5030 .....	#30.....	0.081 to 0.116
GR5040 .....	#40.....	0.065 to 0.095
GR5050 .....	#50.....	0.041 to 0.068
GR5060 .....	#60.....	0.024 to 0.040
GR5070 .....	#70.....	0.017 to 0.028
GR5080 .....	#80.....	0.007 to 0.015
GR5090 .....	#90.....	0.003 to 0.013

## Gauging Reamer Kit



Kit contains 1 each of the individual reamers above in a slim plastic case.

Part #	Description	Size
GRK5000.....	Set of 8 five-corned reamers, sized from .003 to .145 inches	

# Valves

## Pipe Inlet Valve

Our valves VA101 through VA114 are heavy-duty brass body needle valves. These precision valves have stainless steel stems, tapered to allow accurate micro control of air, liquids and gases that do not affect brass. 125 pounds working pressures.



Valve #	Inlet End	Outlet End
VA101	1/4" Female Pipe	1/4" Male Pipe
VA103	1/4" Male Pipe	1/4" Male Pipe
VA104	1/4" Female Pipe	1/4" Female Pipe
VA107	1/4" Male Pipe	9/16" -18 Left Hand Male
VA108	1/8" Male Pipe	1/8" Male Pipe
VA109	3/8" Male Pipe	3/8" Male Pipe
VA110	9/16" -18 Left Hand Male	1/4" Male Pipe
VA111	1/8" Female Pipe	1/8" Female Pipe
VA113	1/4" Male Pipe	1/4" Female Pipe
VA114	9/16" -18 Left Hand Male	1/4" Female Pipe

## Valve Knob Assembly







VA000-A1 .....Knob & Stem - Fits all valves VA101 thru VA114

Note: Parts not shown to scale.






# Burner Jets

## Gas Jet

		Hex Size	Decimal Length	Fractional Length	Threads
	Oxygen port is #20 (.1610)				
	BJ200	Blank	7/16"	1.360	1 23/64" ..... 5/16-27 UNS
	BJ200-68	Natural	7/16"	1.360	1 23/64" ..... 5/16-27 UNS
	Oxygen port is 1/4". Same application as BJ200 for LP gas				
	BJ201	Blank	7/16"	1.360	1 23/64" ..... 5/16-27 UNS
	BJ201-68	Natural	7/16"	1.360	1 23/64" ..... 5/16-27 UNS
	Oxygen port is #12 (.1890) With pilot ignition ring				
	BJ203	Blank	7/16"	1.756	1 3/4" ..... 1/8-27 NPT
	BJ203-68	Natural	7/16"	1.756	1 3/4" ..... 1/8-27 NPT
	BJ203-77	LP	7/16"	1.756	1 3/4" ..... 1/8-27 NPT
	Oxygen port is #17 (.2656)				
	BJ206	Blank	1/2" sq.	1.515	5/16-27 UNS
	BJ206-68	Natural	1/2" sq.	1.515	5/16-27 UNS
	BJ206-77	LP	1/2" sq.	1.515	5/16-27 UNS

## Slotted Cap Jet

		Hex Size	Decimal Length	Fractional Length	Threads
	Cap has 6 slots with 4 cross drilled air intakes. Cap #BJ231. Oxygen port is 1/4" (.25)				
	BJ214	Blank	5/8"	2.375	2 3/8" ..... 5/16-24 UNF
	BJ214-68	Natural	5/8"	2.375	2 3/8" ..... 5/16-24 UNF
	BJ214-77	LP	5/8"	2.375	2 3/8" ..... 5/16-24 UNF
	Cap has 6 slots. Cap #BJ230. Oxygen port is #13 (.185)				
	BJ215	Blank	1/2"	2.812	2 13/16" ..... 5/16-24 UNF
	BJ215-68	Natural	1/2"	2.812	2 13/16" ..... 5/16-24 UNF
	BJ215-77	LP	1/2"	2.812	2 13/16" ..... 5/16-24 UNF
	Cap has 7 slots. Cap #BJ234. Oxygen port is 11/32" (.343)				
	BJ216	Blank	3/4"	2.180	2 3/16" ..... 1/8-27 NPT
	BJ216-68	Natural	3/4"	2.180	2 3/16" ..... 1/8-27 NPT
	BJ216-77	LP	3/4"	2.180	2 3/16" ..... 1/8-27 NPT

Note: Parts not shown to scale.

# Burner Jets

## Slotted Cap Jet (continued)



	Hex Size	Decimal Length	Fractional Length	Threads
Cap has 7 slots. Cap #BJ234. Oxygen port is 11/32" (.343)				
BJ217	Blank	3/4"	2.180	2 3/16" .....7/16-24 UNS
BJ217-68	Natural	3/4"	2.180	2 3/16" .....7/16-24 UNS
BJ217-77	LP	3/4"	2.180	2 3/16" .....7/16-24 UNS



Cap has 6 slots. For 1/4" compression connection. Cap #BJ232. Oxygen port is 17/64" (.265)				
BJ218	Blank	1/2"	2.160	2 5/32" .....7/16-24 UNS
BJ218-68	Natural	1/2"	2.160	2 5/32" .....7/16-24 UNS
BJ218-77	LP	1/2"	2.160	2 5/32" .....7/16-24 UNS



Cap has 6 slots. Cap #BJ230. Oxygen port is #12 (.189)				
BJ220	Blank	1/2"	2.250	2 1/4" .....5/16-24 UNF
BJ220-68	Natural	1/2"	2.250	2 1/4" .....5/16-24 UNF
BJ220-77	LP	1/2"	2.250	2 1/4" .....5/16-24 UNF

## Cap Only



	Hex Size	Decimal Length	Fractional Length	Threads
BJ230	All	1/2" O.D.	.750	3/4" .....3/8-24 UNF
Fits BJ215 & BJ220				



BJ231	All	11/16" O.D.	.875	7/8" .....9/16-27 UNS
Fits BJ214				



BJ232	All	9/16" O.D.	.703	45/64" .....7/16-24 UNS
Fits BJ218				



BJ234	All	11/16" O.D.	1.060	1 1/16" .....5/8-18 UNF
Fits BJ216 & BJ217				

Note: Parts not shown to scale.

# Orifice Kits

## MIK131LP & MIK131N



### **Serviceman's Orifice Assortment Kit - LP Gas or Nat Gas 9 3/4" x 13 1/2" x 2"**

Our MIK131 orifice cabinet contains 23 of those orifices most commonly used. Over 300 orifices in proportion to normal demand. Have the right orifice at the right time! Save a trip back to the shop! Kit comes in steel case #SC134.

A chart describing and illustrating each item is just inside the cover. Cabinet is made of heavy gauge steel with durable baked enamel finish and radiused bottom sections for easy removal.

**Priced for substantial savings.**

#### **Kit contains:**

C0400.....25 pcs.	P0518.....20 pcs.	P0538.....10 pcs.
MI100.....30 pcs.	P0519.....15 pcs.	P0539.....15 pcs.
MI108.....10 pcs.	P0520.....10 pcs.	P0543.....10 pcs.
P0501.....12 pcs.	P0523.....12 pcs.	P0554.....8 pcs.
P0505.....5 pcs.	P0529.....15 pcs.	P0557.....10 pcs.
P0508.....20 pcs.	P0530.....12 pcs.	P0558.....10 pcs.
P0511.....10 pcs.	P0533.....10 pcs.	P0559.....8 pcs.
P0515.....12 pcs.	P0536.....8 pcs.	

## MIK132LP & MIK132N



### **Master Pilot Orifice Assortment Kit - LP Gas or Nat Gas 9 3/4" x 13 1/2" x 2"**

In one kit you now have 32 of the most needed pilot orifices with over 100 pieces. These are the replacement pilot orifices for Penn Baso, Robertshaw, General Controls, Honeywell and White-Rodgers. A most for every efficient serviceman. Drill sizes for these parts are shown in this catalog. Kit comes in steel case #SC134.

A chart describing and illustrating each item is just inside the cover. Cabinet is made of heavy gauge steel with durable baked enamel finish and radiused bottom sections for easy removal.

**Priced for substantial savings.**

#### **Kit contains:**

BA701.....3 pcs.	RS803.....5 pcs.	MH856.....4 pcs.
BA702.....2 pcs.	RS804.....4 pcs.	MH857.....6 pcs.
BA703.....3 pcs.	RS805.....3 pcs.	MH858.....4 pcs.
BA718.....6 pcs.	RS806.....3 pcs.	MH859.....5 pcs.
BA719.....3 pcs.	RS807.....3 pcs.	WR900.....3 pcs.
BA720.....4 pcs.	RS813.....5 pcs.	WR901.....1 pc.
GE751.....1 pc.	RS818.....6 pcs.	WR902.....1 pc.
GE752.....2 pcs.	RS820.....5 pcs.	WR903.....2 pcs.
GE753.....3 pcs.	RS821.....4 pcs.	WR904.....1 pc.
GE757.....9 pcs.	RS851.....3 pcs.	WR905.....1 pc.
RS801.....7 pcs.	RS854.....4 pcs.	



# Orifice Kits

## MIK135LP



### Special LP Plug and Cap Orifice Master Kit 9 3/4" x 13 1/2" x 2"

This special kit is for LP only and consists of nearly 300 pieces. There are 29 popular items included. All items are drilled to a 72, except P0527-80, P0539-010 and P0519, and P0520 and MI108, which are furnished blank. Kit comes in steel case #SC134.

A chart describing and illustrating each item is just inside the cover. Cabinet is made of heavy gauge steel with durable baked enamel finish and radiused bottom sections for easy removal.

**Priced for substantial savings.**

#### Kit contains:

C0400 .....25 pcs.	P0501 .....10 pcs.	P0529 .....15 pcs.
C0401 .....10 pcs.	P0508 .....20 pcs.	P0531 .....10 pcs.
C0402 .....10 pcs.	P0511 .....10 pcs.	P0533 .....15 pcs.
C0403 .....10 pcs.	P0518 .....10 pcs.	P0536 .....10 pcs.
C0405 .....5 pcs.	P0519 .....15 pcs.	P0538 .....10 pcs.
MI100 .....30 pcs.	P0520 .....10 pcs.	P0539 .....15 pcs.
MI108 .....10 pcs.	P0527 .....10 pcs.	P0543 .....10 pcs.
MI109 .....10 pcs.		
MI110 .....10 pcs.		

## MIK136LP & MIK136N



### Special LP or NAT Burner Master Kit 11" x 7" x 1 3/4"

This special kit consists of 213 pieces. There are 18 popular items included. All items are drilled to orifice size listed below. Kit comes in plastic case #SC135. A chart describing and illustrating each item is just inside the cover.

**Priced for substantial savings.**

#### MIK136LP

C0400-72 .....10 pcs.
MI100-72 .....30 pcs.
P0501-72 .....12 pcs.
P0505-72 .....6 pcs.
P0507-80 .....12 pcs.
P0508-72 .....12 pcs.
P0511-72 .....12 pcs.
P0512-75 .....12 pcs.
P0518-72 .....12 pcs.
P0519-72 .....12 pcs.
P0520-72 .....6 pcs.
P0523-72 .....12 pcs.
P0525-72 .....6 pcs.
P0529-72 .....10 pcs.
P0533-72 .....12 pcs.
P0539-010 .....15 pcs.
P0543-72 .....12 pcs.
P0577-72 .....10 pcs.

#### MIK136N

C0400-56 .....10 pcs.
MI100-72 .....30 pcs.
P0501-56 .....12 pcs.
P0505-72 .....6 pcs.
P0507-72 .....12 pcs.
P0508-56 .....12 pcs.
P0511-56 .....12 pcs.
P0512-73 .....12 pcs.
P0518-56 .....12 pcs.
P0519-56 .....12 pcs.
P0520-56 .....6 pcs.
P0523-56 .....12 pcs.
P0525-56 .....6 pcs.
P0529-56 .....10 pcs.
P0533-56 .....12 pcs.
P0539-80 .....15 pcs.
P0543-56 .....12 pcs.
P0577-53 .....10 pcs.



# Orifice Kits

## MIK137LP & MIK137N

### Special LP or NAT Pilot Master Kit 11" x 7" x 1 3/4"

Special kit is for LP or natural gas and consists of 137 pieces. There are 18 popular items included. All items are drilled to orifice size listed below. Kit comes in plastic case #SC135. A chart describing and illustrating each item is just inside the cover.

**Priced for substantial savings.**

#### MIK137LP

#### MIK137N

BA701-80.....5 pcs.	BA701-110.....5 pcs.
BA703-80.....5 pcs.	BA703-110.....5 pcs.
BA715-021.....4 pcs.	BA715-112.....4 pcs.
BA718-021.....5 pcs.	BA718-112.....5 pcs.
BA719-021.....5 pcs.	BA719-112.....5 pcs.
GE753-78.....6 pcs.	GE753-011.....6 pcs.
GE755-77.....4 pcs.	GE755-010.....4 pcs.
MH854-018.....3 pcs.	MH854-010.....3 pcs.
MH856-0135...12 pcs.	MH856-010.....12 pcs.
MH858-018.....12 pcs.	MH858-010.....12 pcs.
PS691-80.....4 pcs.	PS691-010.....4 pcs.
RS803-016.....12 pcs.	RS803-009.....12 pcs.
RS804-016.....12 pcs.	RS804-008.....12 pcs.
RS807-016.....12 pcs.	RS807-008.....12 pcs.
RS813-018.....12 pcs.	RS813-010.....12 pcs.
RS817-010.....6 pcs.	RS817-010.....6 pcs.
RS820-011.....6 pcs.	RS820-011.....6 pcs.
RS821-018.....12 pcs.	RS821-010.....12 pcs.

## MIK138LP

### Special LP Burner Master Kit 11" x 7" x 1 3/4"

Special kit is for LP only and consists of 203 pieces. There are 18 popular items included. All items are drilled to orifice size listed below. Kit comes in plastic case #SC135. A chart describing and illustrating each item is just inside the cover.

**Priced for substantial savings.**

#### MIK138LP

C0400-72.....10 pcs.	P0518-72.....10 pcs.
C0401-72.....10 pcs.	P0519-72.....10 pcs.
C0403-72.....10 pcs.	P0520-72.....6 pcs.
MI100-72.....30 pcs.	P0523-72.....12 pcs.
MI108.....10 pcs.	P0525-72.....12 pcs.
P0501-72.....10 pcs.	P0529-72.....12 pcs.
P0505-72.....6 pcs.	P0533-72.....10 pcs.
P0508-72.....15 pcs.	P0539-010.....10 pcs.
P0511-72.....10 pcs.	P0543-72.....10 pcs.

# Orifice Kits

MIK139LP & MIK139N



## Special LP or NAT Master Burner and Pilot Orifice Kit 9 3/4" x 13 1/2" x 2"

Special kit is for LP or natural gas and consists of 131 pieces. This kit consists of our 20 most popular burner and pilot orifices/fittings. All items are drilled to the appropriate size for the gas specified. A chart describing and illustrating each item is just inside the cover. The cabinet is made of heavy gauge steel with durable baked enamel finish and radiused bottom sections for easy part removal. Kit comes in steel case #SC134.

**Priced for substantial savings.**

### Kit Contains:

BA718-012.....5 pcs.	P0505-72.....15 pcs.
CF641.....5 pcs.	P0508-72.....15 pcs.
C0400-72.....15 pcs.	P0510-72.....15 pcs.
C0401-72.....15 pcs.	P0511-72.....15 pcs.
C0403-72.....15 pcs.	P0518-72.....15 pcs.
C0406-72.....15 pcs.	P0519-72.....15 pcs.
MH858-010.....15 pcs.	P0523-72.....15 pcs.
MI100-72.....50 pcs.	P0543-72.....15 pcs.
MI108.....10 pcs.	RS813-010.....15 pcs.
P0501-72.....15 pcs.	RS821-010.....15 pcs.

# Adapters

## MIK100 - Master Adapter Kit

This brass adaptor will renew from 80% to 90% of all orifices, enabling them to use a higher B.T.U gas. Obsolete as well as modern appliance orifices can be renewed efficiently at a minimum cost. The MI100 Adaptor is the most essential item in the serviceman's kit. Very often, the Adaptor saves the serviceman a trip back to the shop when he does not have the proper replacement. The existing cap or plug on the appliance can be quickly renewed on the job, saving time and money.

Explanation of tools and how to install the MI100 Adaptor:

First, remove the existing orifice from the appliance and insert it in the Anvil (TL074 provided), where it is secured by the thumb screw. Next, ream out the orifice, using the Reamer (TL010 provided) in conjunction with the Hand piece (TL061 provided). Always turn the reamer in one direction. This will provide the proper size hold for the adaptor.

Remove the orifice from the anvil. Insert adaptor (which is tapered to allow for insertion) into the reamed hole.

Place the orifice on the end of the anvil. Using the Driving Tool (TL063 provided) strike with hammer to fully position the adaptor. On the end of the anvil is a small counter sunk hole located off center; place head of adaptor into this hole.

With the orifice in this position, insert the Crimping Tool (TL062 provided) and strike once or twice. This will flare the adaptor and allow an uninterrupted flow of gas.



### Kit Includes:

	Description	Size	Piece Count
MI100-72 .....LP .....	Master Orifice Adapter .....	#72 .....	100
TL061 .....	Handle For Reamer & Broach.....		1
TL062 .....	Crimping Tool For Large Plugs .....		1
TL063 .....	Driving Tool .....		1
TL064 .....	Crimping Tool For Smaller Plugs .....		1
TL070 .....	Large Reamer 5/32" Diameter.....		1
TL074 .....	Safety Anvil .....		1

### Master Orifice Adapter

	Description	Size
MI100.....Blank .....	Master Orifice Adapter	
MI100-80 .....Natural.....	Master Orifice Adapter .....	#80
MI100-72 .....LP.....	Master Orifice Adapter .....	#72

### Needle



	Description	Size
MI109.....Not drilled .....	Shoulder Needle. Press in Fit.....	11/16"
MI110.....#72 drilled only .....	Universal Needle.....	11/16"

# Burner Orifices

## Burner Orifices for McLain Furnaces



		Hex Size	Decimal Length	Fractional Length	Threads	Barrel Diameter
OB205	Blank	5/8"	1.058		1/4-18 NPT	0.360
OB205-56	Natural	5/8"	1.058		1/4-18 NPT	0.360
OB205-80	LP	5/8"	1.058		1/4-18 NPT	0.360

## Burner Orifices for American Burners, Models GUA & GIA



		Hex Size	Decimal Length	Fractional Length	Threads	Barrel Diameter
OB207	Blank	9/16"	0.937		1/4-18 NPT	0.500
OB207-56	Natural	9/16"	0.937		1/4-18 NPT	0.500
OB207-72	LP	9/16"	0.937		1/4-18 NPT	0.500

## Burner Orifices for Carrier Unit Heater



		Hex Size	Decimal Length	Fractional Length	Threads	Barrel Diameter
OB208	Blank	9/16"	1.063		1/4-18 NPT	0.425
OB208-56	Natural	9/16"	1.063		1/4-18 NPT	0.425
OB208-72	LP	9/16"	1.063		1/4-18 NPT	0.425

# Cap Orifices

## Counter-Bored Cap Orifices



		Hex Size	Decimal Length	Fractional Length	Threads	Barrel Diameter
C0403	Blank	1/2"	0.750	3/4"	3/8-27 UNS	0.430
C0403-56	Natural	1/2"	0.750	3/4"	3/8-27 UNS	0.430
C0403-72	LP	1/2"	0.750	3/4"	3/8-27 UNS	0.430
C0408	Blank	1/2"	0.812	13/16"	3/8-27 UNS	0.430
C0408-56	Natural	1/2"	0.812	13/16"	3/8-27 UNS	0.430
C0408-72	LP	1/2"	0.812	13/16"	3/8-27 UNS	0.430

## Cap Orifice Including #PO501 Drilled #78



		Hex Size	Decimal Length	Fractional Length	Threads	Barrel Diameter
C0414	LP ONLY	1/2"	1.000	1"	3/8-27	0.428

Note: Parts not shown to scale.



# Cap Orifices

## Regular Cap Orifices



		Hex Size	Decimal Length	Fractional Length	Threads	Barrel Diameter
C0400	Blank	1/2"	0.725		1/8-27 NPT	0.428
C0400-56	Natural	1/2"	0.725		1/8-27 NPT	0.428
C0400-72	LP	1/2"	0.725		1/8-27 NPT	0.428
C0401	Blank	1/2"	0.685		1/8-27 NPT	0.428
C0401-56	Natural	1/2"	0.685		1/8-27 NPT	0.428
C0401-72	LP	1/2"	0.685		1/8-27 NPT	0.428
C0402	Blank	1/2"	0.725		3/8-40 UNS	0.428
C0402-56	Natural	1/2"	0.725		3/8-40 UNS	0.428
C0402-72	LP	1/2"	0.725		3/8-40 UNS	0.428
C0404	Blank	9/16"	0.925		1/2-27 UNS	0.550
C0404-56	Natural	9/16"	0.925		1/2-27 UNS	0.550
C0404-72	LP	9/16"	0.925		1/2-27 UNS	0.550
C0405	Blank	9/16"	0.925		1/2-20 UNF	0.550
C0405-56	Natural	9/16"	0.925		1/2-20 UNF	0.550
C0405-72	LP	9/16"	0.925		1/2-20 UNF	0.550
C0406	Blank	1/2"	0.812	13/16"	3/8-27 UNS	0.428
C0406-56	Natural	1/2"	0.812	13/16"	3/8-27 UNS	0.428
C0406-72	LP	1/2"	0.812	13/16"	3/8-27 UNS	0.428
C0407	Blank	1/2"	0.925		3/8-27 UNS	0.430
C0407-56	Natural	1/2"	0.925		3/8-27 UNS	0.430
C0407-72	LP	1/2"	0.925		3/8-27 UNS	0.430
C0409	Blank	1/2"	0.815		3/8-40 UNS	0.428
C0409-56	Natural	1/2"	0.815		3/8-40 UNS	0.428
C0409-72	LP	1/2"	0.815		3/8-40 UNS	0.428
C0410	Blank	11/16"	1.171	1 11/64"	9/16-24 UNEF	0.630
C0410-56	Natural	11/16"	1.171	1 11/64"	9/16-24 UNEF	0.630
C0410-72	LP	11/16"	1.171	1 11/64"	9/16-24 UNEF	0.630
C0415	Blank	9/16"	0.890	57/64"	7/16-27 UNS	0.425
C0415-56	Natural	9/16"	0.890	57/64"	7/16-27 UNS	0.425
C0415-72	LP	9/16"	0.890	57/64"	7/16-27 UNS	0.425
C0417	Blank	1/2"	0.725		3/8-27 UNS Internal 60 Degree Incl. Angle	
C0417-56	Natural	1/2"	0.725		3/8-27 UNS Internal 60 Degree Incl. Angle	
C0417-72	LP	1/2"	0.725		3/8-27 UNS Internal 60 Degree Incl. Angle	

Note: Parts not shown to scale.

# Compression Fittings

## Ferrule Sleeve



Tube Size	Diameter	Decimal Length	Fractional Length
The compression fittings listed below are used in Anderson & Forrester pilot orifices and are sold separately under the part numbers listed.			
CF500.....1/8"	0.130	0.188	3/16"
CF501.....3/16"	0.192	0.220	7/32"
CF502.....1/4"	0.255	0.250	1/4"
CF503.....5/16"	0.318	0.250	1/4"
CF504.....3/8"	0.382	0.250	1/4"

## Nut



Tube Size	Hex Size	Diameter	Decimal Length	Fractional Length	Threads
CF509.....1/8"	3/8"	0.130	0.375	3/8"	5/16-24 UNF
CF510.....3/16"	7/16"	0.192	0.410	13/32"	3/8-24 UNF
CF511.....1/4"	1/2"	0.255	0.440	7/16"	7/16-24 UNS
CF512.....5/16"	9/16"	0.318	0.440	7/16"	1/2-24 UNS
CF513.....3/8"	5/8"	0.382	0.470	15/32"	9/16-24 UNEF

## Inverted Flare Style Nut



Tube Size	Hex Size	Diameter	Decimal Length	Fractional Length	Threads
CF613.....3/16"	3/8"	0.196	0.563	9/16"	3/8-24 UNF
CF614.....1/4"	7/16"	0.259	0.563	9/16"	7/16-24 UNS

## Break-Away Nut & Sleeve



Tube Size	Hex Size	Decimal Length	Fractional Length	Threads
Break-away type separates upon tightening.				
CF639.....1/8"	3/8"	0.563	9/16"	5/16-24 UNF
CF640.....3/16"	3/8"	0.641	41/64"	3/8-24 UNF
CF641.....1/4"	7/16"	0.656	21/32"	7/16-24 UNF
CF642.....1/4"	7/16"	0.797	51/64"	7/16-24 UNF
CF643.....1/4"	7/16"	1.125	1 1/8"	7/16-24 UNF
CF644.....3/8"	9/16"	0.750	3/4"	9/16-24 UNEF
CF645.....7/16"	5/8"	0.787	25/32"	5/8-24 UNEF
CF646.....3/16"	7/16"	0.708		7/16-24 UNS

Note: Parts not shown to scale.

# Pilot Orifices

## Pilot Extension with Orifice



	Hex Size	Decimal Length	Fractional Length	Threads
PL629.....Blank.....	1/2"		15/16"	1/8-27 Ext. & Int. NPT
PL629-80.....Natural.....	1/2"		15/16"	1/8-27 Ext. & Int. NPT
PL629-010....LP.....	1/2"		15/16"	1/8-27 Ext. & Int. NPT
PL630.....Blank.....	1/2"		15/16"	1/8-27 Ext. & Int. NPT
PL630-80.....Natural.....	1/2"		15/16"	1/8-27 Ext. & Int. NPT
PL630-010....LP.....	1/2"		15/16"	1/8-27 Ext. & Int. NPT

## Pilot Orifice - 3/16" Flare Connection



PS648.....Sold drilled only....	7/16"	1.500	1 1/2"	1/4-32 External UNEF 3/8-24 Internal UNF
PS648-80.....Natural.....	7/16"	1.500	1 1/2"	1/4-32 External UNEF 3/8-24 Internal UNF
PS648-010....LP.....	7/16"	1.500	1 1/2"	1/4-32 External UNEF 3/8-24 Internal UNF

## Pilot Orifice - 3/16" Compression Connection



PS649	Sold drilled only	7/16"	1.425	1 7/16"	1/4-32 External UNEF 3/8-24 Internal UNF
PS649-80.....Natural.....		7/16"	1.425	1 7/16"	1/4-32 External UNEF 3/8-24 Internal UNF
PS649-010....LP.....		7/16"	1.425	1 7/16"	1/4-32 External UNEF 3/8-24 Internal UNF

## Pilot Orifice - 1/4" Compression Connection - Aluminum Insert



PS650.....Sold drilled only....	7/16"	1.508	1 1/2"	1/4-32 External UNEF 7/16-24 Internal UNS
PS650-80.....Natural.....	7/16"	1.508	1 1/2"	1/4-32 External UNEF 7/16-24 Internal UNS
PS650-010....LP.....	7/16"	1.508	1 1/2"	1/4-32 External UNEF 7/16-24 Internal UNS

## Pilot Orifice Tip - 3/16" Compression Connection - Aluminum



PS652.....Sold drilled only	.3/8"	0.835		3/8-24 UNF
PS652-80.....Natural	.3/8"	0.835		3/8-24 UNF
Tip drilled .009 Insert drilled #80				
PS652-010....LP	.3/8"	0.835		3/8-24 UNF
Tip drilled #80 Insert drilled #75				

## Pilot Insert Orifice - Aluminum



PS653.....Blank.....	O.D. 3/16"	0.200
PS653-80.....Natural.....	O.D. 3/16"	0.200
PS653-010....LP.....	O.D. 3/16"	0.200

# Pilot Orifices

## Pilot Orifice Tip - 1/4" Compression Connection



	Hex Size	Decimal Length	Fractional Length	Threads
PS668 .....Blank.....	1/2"	0.750	3/4"	7/16-24 UNS x 7/16-27 UNF
PS668-80.....Natural.....	1/2"	0.750	3/4"	7/16-24 UNS x 7/16-27 UNF
PS668-010....LP.....	1/2"	0.750	3/4"	7/16-24 UNS x 7/16-27 UNF

## Pilot Orifice



PS675 .....Blank.....	1/2"	1.115		7/16-27 UNS
PS675-80.....Natural.....	1/2"	1.115		7/16-27 UNS
PS675-010....LP.....	1/2"	1.115		7/16-27 UNS

## Pilot Orifice Tip



PS676 .....Blank.....	1/2"	0.719	23/32"	7/16-27 UNS
PS676-80.....Natural.....	1/2"	0.719	23/32"	7/16-27 UNS
PS676-010....LP.....	1/2"	0.719	23/32"	7/16-27 UNS

## Pilot Orifice - 3/16" Compression Connection - Aluminum



PS677 .....Blank.....	3/8"	0.830		3/8-24 x 12-28 UNF
PS677-80.....Natural.....	3/8"	0.830		3/8-24 x 12-28 UNF
PS677-010....LP.....	3/8"	0.830		3/8-24 x 12-28 UNF

## Pilot Extension with Orifice - Aluminum



PS690 .....Blank.....	O.D. .186	0.200		
PS690-80.....Natural.....	O.D. .186	0.200		
PS690-010....LP.....	O.D. .186	0.200		

## Pilot Orifice - 1/4" Compression Connection



PS691 .....Sold drilled only.....	1/2"	1.160		1/4-28 External UNEF 7/16-24 Internal UNS
PS691-80.....Natural.....	1/2"	1.160		1/4-28 External UNEF 7/16-24 Internal UNS
PS691-010....LP.....	1/2"	1.160		1/4-28 External UNEF 7/16-24 Internal UNS

## Pilot Orifice - 3/16" Compression Connection - Includes Retaining Ring #01-583



PS692 .....Sold drilled only.....	1/2"	1.140		5/16-24 UNF
PS692-80.....Natural.....	1/2"	1.140		5/16-24 UNF
PS692-010....LP.....	1/2"	1.140		5/16-24 UNF

## Pilot Orifice - 1/4" Compression Connection - Includes Retaining Ring #01-583














PS693 .....Sold drilled only.....	1/2"	1.140		7/16-24 UNS
PS693-80.....Natural.....	1/2"	1.140		7/16-24 UNS
PS693-010....LP.....	1/2"	1.140		7/16-24 UNS



# Plug Orifices

## Flat Tip Plug Orifice with Chamfer

		Hex Size	Decimal Length	Fractional Length	Threads	
	P0501	Blank	5/16"	0.344	11/32"	0.286-36 Special
	P0501-56	Natural	5/16"	0.344	11/32"	0.286-36 Special
	P0501-72	LP	5/16"	0.344	11/32"	0.286-36 Special
	P0515	Blank	5/16"	0.344	11/32"	1/4-32 UNEF
	P0515-56	Natural	5/16"	0.344	11/32"	1/4-32 UNEF
	P0515-72	LP	5/16"	0.344	11/32"	1/4-32 UNEF
	P0529	Blank	3/8"	0.375	3/8"	5/16-27 UNS
	P0529-56	Natural	3/8"	0.375	3/8"	5/16-27 UNS
	P0529-72	LP	3/8"	0.375	3/8"	5/16-27 UNS
	P0532	Blank	5/8"	0.703	45/64"	5/8-18 UNF
	P0532-56	Natural	5/8"	0.703	45/64"	5/8-18 UNF
	P0532-72	LP	5/8"	0.703	45/64"	5/8-18 UNF
	P0534	Blank	7/8"	0.813	13/16"	3/4-16 UNF
	P0534-56	Natural	7/8"	0.813	13/16"	3/4-16 UNF
	P0534-72	LP	7/8"	0.813	13/16"	3/4-16 UNF
	P0536	Blank	7/16"	0.438	7/16"	3/8-27 UNS
	P0536-56	Natural	7/16"	0.438	7/16"	3/8-27 UNS
	P0536-72	LP	7/16"	0.438	7/16"	3/8-27 UNS
	P0542	Blank	7/16"	0.438	7/16"	3/8-24 UNF
	P0542-56	Natural	7/16"	0.438	7/16"	3/8-24 UNF
	P0542-72	LP	7/16"	0.438	7/16"	3/8-24 UNF
	P0553	Blank	9/16"	0.563	9/16"	1/2-20 UNF
	P0553-56	Natural	9/16"	0.563	9/16"	1/2-20 UNF
	P0553-72	LP	9/16"	0.563	9/16"	1/2-20 UNF
	P0556	Blank	9/16"	0.563	9/16"	1/2-27 UNS
	P0556-56	Natural	9/16"	0.563	9/16"	1/2-27 UNS
	P0556-72	LP	9/16"	0.563	9/16"	1/2-27 UNS
	P0567	Blank	3/8"	0.325		11/32-32
	P0567-57		3/8"	0.325		11/32-32
	P0569	Blank	3/8"	0.325		11/32-32
	P0569-53		3/8"	0.325		11/32-32

# Plug Orifices

## Hex Barrel Plug Orifice



		Hex Size	Decimal Length	Fractional Length	Threads	Barrel Diameter
P0502	Blank	5/16"	0.625	5/8"	0.265-36 Special	
P0502-72	Natural	5/16"	0.625	5/8"	0.265-36 Special	
P0502-75	LP	5/16"	0.625	5/8"	0.265-36 Special	

## Round Barrel Plug Orifice



P0505	Blank	1/2"	1.180	1 3/16"	1/8-27 NPT	0.430
P0505-72	LP & Natural	1/2"	1.180	1 3/16"	1/8-27 NPT	0.430



P0510	Blank	1/2"	1.180	1 3/16"	1/8-27 NPT	0.370
P0510-72	LP & Natural	1/2"	1.180	1 3/16"	1/8-27 NPT	0.370



P0561	Blank	3/8"	0.870		1/16-27 NPT	0.250
P0561-72	LP	3/8"	0.870		1/16-27 NPT	0.250



P0590	Blank	7/16"	1.125	1 1/8"	1/8-27 NPT	0.312
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## Flat Tip Plug Orifice

Note: Parts not shown to scale.



P0504	Blank	1/4"	0.250	1/4"	1/4-40 UNS	
P0504-76	Natural	1/4"	0.250	1/4"	1/4-40 UNS	
P0504-80	LP	1/4"	0.250	1/4"	1/4-40 UNS	



P0508	Blank	1/4"	0.344	11/32"	1/4-28 UNF	
P0508-56	Natural	1/4"	0.344	11/32"	1/4-28 UNF	
P0508-72	LP	1/4"	0.344	11/32"	1/4-28 UNF	



P0509	Blank	3/16"	0.281	9/32"	6/32 UNC	
P0509-80	Natural	3/16"	0.281	9/32"	6/32 UNC	
P0509-010	LP	3/16"	0.281	9/32"	6/32 UNC	



P0511	Blank	1/2"	0.375	3/8"	7/16-27 UNS	
P0511-56	Natural	1/2"	0.375	3/8"	7/16-27 UNS	
P0511-72	LP	1/2"	0.375	3/8"	7/16-27 UNS	



P0518	Blank	3/8"	0.313	5/16"	11/32-32 Special	
P0518-56	Natural	3/8"	0.313	5/16"	11/32-32 Special	
P0518-72	LP	3/8"	0.313	5/16"	11/32-32 Special	



P0523	Blank	7/16"	0.438	7/16"	1/8-27 NPT	
P0523-56	Natural	7/16"	0.438	7/16"	1/8-27 NPT	
P0523-72	LP	7/16"	0.438	7/16"	1/8-27 NPT	















P0525	Blank	9/16"	0.594	19/32"	1/4-18 NPT	
P0525-56	Natural	9/16"	0.594	19/32"	1/4-18 NPT	
P0525-72	LP	9/16"	0.594	19/32"	1/4-18 NPT	

# Plug Orifices








## Flat Tip Plug Orifice (continued)

Note: Parts not shown to scale.






		Hex Size	Decimal Length	Fractional Length	Threads	
	P0527	Blank	3/8"	0.219	7/32"	6/16-32 UNEF
	P0527-77	Natural	3/8"	0.219	7/32"	6/16-32 UNEF
	P0527-80	LP	3/8"	0.219	7/32"	6/16-32 UNEF
	P0528	Blank	1/4"	0.344	11/32"	10-32 UNC
	P0528-80	Natural	1/4"	0.344	11/32"	10-32 UNC
	P0528-010	LP	1/4"	0.344	11/32"	10-32 UNC
	P0530	Blank	5/16"	0.344	11/32"	5/16-24 UNF
	P0530-56	Natural	5/16"	0.344	11/32"	5/16-24 UNF
	P0530-72	LP	5/16"	0.344	11/32"	5/16-24 UNF
	P0531	Blank	3/8"	0.438	7/16"	11/32-27
	P0531-56	Natural	3/8"	0.438	7/16"	11/32-27
	P0531-72	LP	3/8"	0.438	7/16"	11/32-27
	P0535	Blank	7/8"	0.563	9/16"	3/4-27 UNS
	P0535-56	Natural	7/8"	0.563	9/16"	3/4-27 UNS
	P0535-72	LP	7/8"	0.563	9/16"	3/4-27 UNS
	P0537	Blank	5/8"	0.672	43/64"	1/8-27 NPT
	P0537-56	Natural	5/8"	0.672	43/64"	1/8-27 NPT
	P0537-72	LP	5/8"	0.672	43/64"	1/8-27 NPT
	P0538	Blank	7/16"	0.406	13/32"	3/8-32 UNEF
	P0538-56	Natural	7/16"	0.406	13/32"	3/8-32 UNEF
	P0538-72	LP	7/16"	0.406	13/32"	3/8-32 UNEF
	P0543	Blank	1/2"	0.375	3/8"	7/16-24 UNS
	P0543-56	Natural	1/2"	0.375	3/8"	7/16-24 UNS
	P0543-72	LP	1/2"	0.375	3/8"	7/16-24 UNS
	P0554	Blank	9/16"	0.438	7/16"	1/2-24 UNS
	P0554-56	Natural	9/16"	0.438	7/16"	1/2-24 UNS
	P0554-72	LP	9/16"	0.438	7/16"	1/2-24 UNS
	P0557	Blank	5/8"	0.500	1/2"	9/16-18 UNF
	P0557-56	Natural	5/8"	0.500	1/2"	9/16-18 UNF
	P0557-72	LP	5/8"	0.500	1/2"	9/16-18 UNF
	P0558	Blank	9/16"	0.544	17/32"	9/16-27 UNS
	P0558-56	Natural	9/16"	0.544	17/32"	9/16-27 UNS
	P0558-72	LP	9/16"	0.544	17/32"	9/16-27 UNS
	P0559	Blank	11/16"	0.563	9/16"	5/8-27 UNS
	P0559-56	Natural	11/16"	0.563	9/16"	5/8-27 UNS
	P0559-72	LP	11/16"	0.563	9/16"	5/8-27 UNS

# Plug Orifices

## Flat Tip Plug Orifice (continued)

		Hex Size	Decimal Length	Fractional Length	Threads	
	P0560	Blank	7/32"	0.280	9/32"	8-32 UNC
	P0560-80	Natural	7/32"	0.280	9/32"	8-32 UNC
	P0560-010	LP	7/32"	0.280	9/32"	8-32 UNC
	P0571	Blank	7/16"	0.443		8-27 NPT
	P0573	Blank	1/2"	0.469	15/32"	3/8-27 UNS
	P0573-54		1/2"	0.469	15/32"	3/8-27 UNS
	P0575	Blank	3/8"	0.365		11/32-32 Special
	P0575-52		3/8"	0.365		11/32-32 Special
	P0576	Blank	7/16"	0.438	7/16"	1/8-27 NPT
	P0576-37		7/16"	0.438	7/16"	1/8-27 NPT
	P0577	Blank	1/4"	0.362		6 x .75mm
	P0577-53		1/4"	0.362		6 x .75mm
	P0582	Blank	9/32"	0.367		0.236-32 UNS
	P0582-64		9/32"	0.367		0.236-32 UNS

## Bullet Tip Plug Orifice

	P0507	Blank	1/4"	0.344	11/32"	1/4-28 UNF
	P0507-72	Natural	1/4"	0.344	11/32"	1/4-28 UNF
	P0507-80	LP	1/4"	0.344	11/32"	1/4-28 UNF
	P0512	Blank	3/8"	0.594	19/32"	5/16-32 UNEF
	P0512-73	Natural	3/8"	0.594	19/32"	5/16-32 UNEF
	P0512-75	LP	3/8"	0.594	19/32"	5/16-32 UNEF
	P0533	Blank	3/8"	0.375	3/8"	5/16-32 UNEF
	P0533-56	Natural	3/8"	0.375	3/8"	5/16-32 UNEF
	P0533-72	LP	3/8"	0.375	3/8"	5/16-32 UNEF
	P0544	Blank	5/16"	0.656	21/32"	5/16-18 UNC
	P0544-56	Natural	5/16"	0.656	21/32"	5/16-18 UNC
	P0544-72	LP	5/16"	0.656	21/32"	5/16-18 UNC
	P0555	Blank	5/8"	0.875	7/8"	1/2-27 UNS
	P0555-56	Natural	5/8"	0.875	7/8"	1/2-27 UNS
	P0555-72	LP	5/8"	0.875	7/8"	1/2-27 UNS



# Plug Orifices

## Reverse Plug Orifice

Note: Parts not shown to scale.



		Hex Size	Decimal Length	Fractional Length	Threads
P0506	Blank	1/4" round	0.344	11/32"	1/4-28 UNF
P0506-80	Natural	1/4" round	0.344	11/32"	1/4-28 UNF
P0506-010	LP	1/4" round	0.344	11/32"	1/4-28 UNF



P0539	Blank	3/16" round	0.375	3/8"	10-32 UNF
P0539-80	Natural	3/16" round	0.375	3/8"	10-32 UNF
P0539-010	LP	3/16" round	0.375	3/8"	10-32 UNF

## Flat Tip Plug Orifice (Tip is round)



P0516	Blank	5/32" round	0.234	15/64"	6-32 UNC
P0516-80	Natural	5/32 round"	0.234	15/64"	6-32 UNC
P0516-010	LP	5/32" round	0.234	15/64"	6-32 UNC



P0519	Blank	7/16" round	0.468	15/32"	1/8-27 NPT
P0519-56	Natural	7/16" round	0.468	15/32"	1/8-27 NPT
P0519-72	LP	7/16" round	0.468	15/32"	1/8-27 NPT



P0520	Blank	9/16" round	0.531	17/32"	1/4-18 NPT
P0520-56	Natural	9/16" round	0.531	17/32"	1/4-18 NPT
P0520-72	LP	9/16" round	0.531	17/32"	1/4-18 NPT



P0521	Blank	11/16" round	0.625	5/8"	3/8-18 NPT
P0521-56	Natural	11/16" round	0.625	5/8"	3/8-18 NPT
P0521-72	LP	11/16" round	0.625	5/8"	3/8-18 NPT



P0522	Blank	7/8" round	0.687	11/16"	1/2-14 NPT
P0522-56	Natural	7/8" round	0.687	11/16"	1/2-14 NPT
P0522-72	LP	7/8" round	0.687	11/16"	1/2-14 NPT

## Fitting with Orifice - 1/4" Compression Connection at Both Ends



P0541	Blank	1/2"	0.828	53/64"	7/16-24 UNS
P0541-80	Natural	1/2"	0.828	53/64"	7/16-24 UNS
P0541-010	LP	1/2"	0.828	53/64"	7/16-24 UNS

## Flat Tip Plug Orifice - Tip Has Counter Bore



P0568	Blank	3/8"	0.315	5/16"	5/16-32 UNEF
P0568-37		3/8"	0.315	5/16"	5/16-32 UNEF

Counter bore is .250 x .035 deep.

## Nipple Orifice (Similar to close nipple, but has a solid wall for orifice)



P0591	Blank	7/16"	0.812	13/16"	18-27 NPT
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P0592	Blank	9/16"	1.125	1 1/8"	1/4-18 NPT
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# General Controls

## Pilot Orifice

Hex Size	Decimal Length	Fractional Length	Threads
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Replaces PG-1 Clip Type Model 10109HD. 1/4" Compression Connection with aluminum insert.

GE751	Sold drilled only	1/2"sq.	1.000	1"	7/16-24 UNS
GE751-76	Natural	1/2"sq.	1.000	1"	7/16-24 UNS
GE751-011	LP	1/2"sq.	1.000	1"	7/16-24 UNS



Replaces 260, PG-9, and PG-1, L Model. 1/4" Compression Connection w/aluminum insert.

GE752	Sold drilled only	1/2"	1.000	1"	7/16-24 UNS
GE752-76	Natural	1/2"	1.000	1"	7/16-24 UNS
GE752-011	LP	1/2"	1.000	1"	7/16-24 UNS



Replaces 1260, 26T, PC, PG9, PG1, T model. Compression Connection w/aluminum insert.

GE753	Sold drilled only	7/16"	0.790		5/16-32 UNEF
GE753-78	Natural	7/16"	0.790		5/16-32 UNEF
GE753-011	LP	7/16"	0.790		5/16-32 UNEF



Replaces 26T and PG-99. 1/4" Compression Connection w/aluminum insert.

GE754	Sold drilled only	1/2"	0.905	29/32"	5/16-32 Ext. UNEF 7/16-24 Int. UNS
GE754-77	Natural	1/2"	0.905	29/32"	5/16-32 Ext. UNEF 7/16-24 Int. UNS
GE754-010	LP	1/2"	0.905	29/32"	5/16-32 Ext. UNEF 7/16-24 Int. UNS



Replaces 26T and PG-9. 10109HK HD. 1/4" Compression Connection w/aluminum insert.

GE755	Sold drilled only	7/16"	1.150		7/16-24 UNS
GE755-77	Natural	7/16"	1.150		7/16-24 UNS
GE755-010	LP	7/16"	1.150		7/16-24 UNS

## Pilot Elbow



Replaces High type pilot elbow 1/4" Compression Connection w/aluminum insert.

GE756	Sold drilled only	1/2"sq.	1.430	1 7/16"	7/16-24 UNS
GE756-78	Natural	1/2"sq.	1.430	1 7/16"	7/16-24 UNS
GE756-010	LP	1/2"sq.	1.430	1 7/16"	7/16-24 UNS

## Pilot



Aluminum Thread Spur For General Controls RC. Pilot.

GE757	Blank	1/4"round	0.225		8-32 UNC
GE757-80	Natural	1/4"round	0.225		8-32 UNC
GE757-010	LP	1/4"round	0.225		8-32 UNC

## Pilot Insert



Aluminum. Used in GE751-GE755.

GE758	Blank	5/16"	0.156		
GE758-80	Natural	5/16"	0.156		
GE758-010	LP	5/16"	0.156		

# Honeywell

## Pilot Orifice

	Hex Size	Decimal Length	Fractional Length	Threads		
Replaces Q-305, Q-324, CS-893, and CS-894. For 1/4" Compression Connection. Aluminum Insert.						
	MH850	Sold drilled only	1/2"	1.017	11/64"	7/16-27 Ext. UNS 7/16-24 Int. UNS
	MH850-0135	Natural	1/2"	1.017	11/64"	1/4-28 UNF 7/16-24 Int. UNS
	MH850-010	LP	1/2"	1.017	11/64"	1/4-28 UNF 7/16-24 Int. UNS
Replaces Q-327, 388146AF, KR, AC, A-11. Includes CF641 insert for 1/4" Compression Connection.						
	MH851	Sold drilled only	1/2"	1.500	1 1/2"	7/16-27 Ext. UNS 7/16-24 Int. UNS
	MH851-018	Natural	1/2"	1.500	1 1/2"	1/4-28 UNF 7/16-24 Int. UNS
	MH851-011	LP	1/2"	1.500	1 1/2"	1/4-28 UNF 7/16-24 Int. UNS
Replaces Q-320 for fitting 388146. Includes PS653 insert.						
	MH852	Sold drilled only	1/2"	1.250	1 1/4"	1/8-27 Ext. NPT 7/16-27 Int. UNS
	MH852-018	Natural	1/2"	1.250	1 1/4"	1/8-27 Ext. NPT 7/16-27 Int. UNS
	MH852-012	LP	1/2"	1.250	1 1/4"	1/8-27 Ext. NPT 7/16-27 Int. UNS
Replaces #38846-F and AB386289B. Includes PS653 Insert. Used on Pilot burner CS-893.						
	MH853	Sold drilled only	1/2"	0.9375	15/16"	1/8-27 Ext. NPT 7/16-27 Int. UNS
	MH853-013	Natural	1/2"	0.9375	15/16"	1/8-27 Ext. NPT 7/16-27 Int. UNS
	MH853-010	LP	1/2"	0.9375	15/16"	1/8-27 Ext. NPT 7/16-27 Int. UNS
MH854 Replaces No. 1 Pilot Q-305. MH854-010 Replaces #388468D. MH854-018 Replaces #388468H.						
	MH854	Sold drilled only	1/2"	1.175		7/16-27 Ext. UNS 7/16-24 Int. UNS
	MH854-018	Natural	1/2"	1.175		7/16-27 Ext. UNS 7/16-24 Int. UNS
	MH854-010	LP	1/2"	1.175		7/16-27 Ext. UNS 7/16-24 Int. UNS
Replaces #388469-F, Q-303. Aluminum insert. Picture is shown with the A&F part CF654 inserted (right end). Does not come with that. Combination part is MH854.						
	MH855	Sold drilled only	1/2"	0.820	11/64"	1/8-27 NPT to 7/16-27 UNS
	MH855-77	Natural	1/2"	0.820	11/64"	1/8-27 NPT to 7/16-27 UNS
	MH855-010	LP	1/2"	0.820	11/64"	1/8-27 NPT to 7/16-27 UNS

Note: Parts not shown to scale.

# Honeywell

## Pilot Orifice (continued)

		Round Size	Decimal Length	Fractional Length
	Replaces Power Pile type. Aluminum.			
	MH856 .....	Blank .....	3/8" .....	0.415
	MH856-0135 .....	Natural .....	3/8" .....	0.415
	MH856-010 .....	LP .....	3/8" .....	0.415
	Replaces Power Pile #388256G. Aluminum.			
	MH857 .....	Blank .....	3/8" .....	0.395
	MH857-0135 .....	Natural .....	3/8" .....	0.395
	MH857-010 .....	LP .....	3/8" .....	0.395
	Replaces #Q-308, Q-314. Aluminum.			
	MH858 .....	Blank .....	0.342 .....	0.600
	Replaces #Q-308, Q-314. #390686-4. Aluminum.			
	MH858-018 .....	Natural .....	0.342 .....	0.600
	Replaces #Q-308, Q-314. #390686-1. Aluminum.			
	MH854-010 .....	LP .....	0.342 .....	0.600
	Replaces Type No. 5 Internal CS-82. Aluminum.			
	MH859 .....	Blank .....	3/8" .....	0.405..... 13/32"
	Replaces #388256G. Aluminum.			
	MH859-015 .....	Natural .....	3/8" .....	0.405..... 13/32"
	Replaces #388256. Aluminum.			
	MH859-009 .....	LP .....	3/8" .....	0.405 .....

Note: Parts not shown to scale.



# Penn-Baso

## Pilot Orifice

Note: Parts not shown to scale.

Hex Size	Decimal Length	Fractional Length	Threads
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BA701	Blank	1/2"	1.125	1 1/8"	1/8-27 Female NPT to 7/16-27 UNS
BA701-80	Natural	1/2"	1.125	1 1/8"	1/8-27 Female NPT to 7/16-27 UNS
BA701-010	LP	1/2"	1.125	1 1/8"	1/8-27 Female NPT to 7/16-27 UNS



Used for Series 19119 (22FLP) for 1/4" Compression Connection.

BA702	Blank	1/2"	1.500	1 1/2"	7/16-27 External UNS
BA701-010	LP	1/2"	1.500	1 1/2"	7/16-27 External UNS



BA703	Blank	1/2"	1.000	1"	1/8-27 Female NPT to 7/16-27 UNS
BA703-80	Natural	1/2"	1.000	1"	1/8-27 Female NPT to 7/16-27 UNS
BA703-010	LP	1/2"	1.000	1"	1/8-27 Female NPT to 7/16-27 UNS



Replaces #Y90EA Includes A&F Part CF640, 3/16" Compression Connection.

BA713	Sold drilled only	1/2"	1.375	1 3/8"	7/16-27 Ext. UNS ; 3/8-24 Int. UNF
BA713-021	Natural	1/2"	1.375	1 3/8"	7/16-27 Ext. UNS ; 3/8-24 Int. UNF
BA713-012	LP	1/2"	1.375	1 3/8"	7/16-27 Ext. UNS ; 3/8-24 Int. UNF



Replaces Y90HA. Double Orifice includes A&F Part CF641, 1/4" Compression Connection.

BA715	Sold drilled only	1/2"	1.750	1 3/8"	7/16-27 Ext. UNS ; 7/16-24 Int. UNS
BA715-021	Natural	1/2"	1.750	1 3/8"	7/16-27 Ext. UNS ; 7/16-24 Int. UNS
BA715-012	LP	1/2"	1.750	1 3/8"	7/16-27 Ext. UNS ; 7/16-24 Int. UNS



Replaces #14. Double Orifice. Includes 1/4" Inverted Flare Connection.

BA716	Sold drilled only	1/2"	1.000	1"	7/16-27 UNS
BA716-021	Natural	1/2"	1.000	1"	7/16-27 UNS
BA716-012	LP	1/2"	1.000	1"	7/16-27 UNS



Replaces #18. Used in Pilot Burner A10. Includes A&F Part CF640, 3/16" Compression Connection.

BA717	Sold drilled only	7/16"	1.000	1"	5/16-32 UNEF
BA717-011	Natural	7/16"	1.000	1"	5/16-32 UNEF
BA717-007	LP	7/16"	1.000	1"	5/16-32 UNEF



Replaces #Y90AA Fits B,C,D,F,R. Double Orifice. Includes A&F Part CF641, 1/4" Compression Connection.

BA718	Sold drilled only	1/2"	1.250	1 1/4"	7/16-27 Ext. UNS ; 7/16-24 Int. UNS
BA718-021	Natural	1/2"	1.250	1 1/4"	7/16-27 Ext. UNS ; 7/16-24 Int. UNS
BA718-012	LP	1/2"	1.250	1 1/4"	7/16-27 Ext. UNS ; 7/16-24 Int. UNS



Replaces #Y90CB Fits B,C,D,F,R. Double Orifice.

BA719	Sold drilled only	1/2"	1.000	1"	1/8-27 Female NPT to 7/16-27 UNS
BA719-021	Natural	1/2"	1.000	1"	1/8-27 Female NPT to 7/16-27 UNS
BA719-012	LP	1/2"	1.000	1"	1/8-27 Female NPT to 7/16-27 UNS



Replaces #Y90BB Fits B,C,D,F,R. Double Orifice.

BA720	Sold drilled only	1/2"	1.125	1 1/8"	1/8-27 Male NPT to 7/16-27 UNS
BA720-021	Natural	1/2"	1.125	1 1/8"	1/8-27 Male NPT to 7/16-27 UNS
BA720-012	LP	1/2"	1.125	1 1/8"	1/8-27 Male NPT to 7/16-27 UNS












Replaces #16. Used in Pilot burners A10 & A11. Includes A&F Part CF641, 1/4" Compression Connection.


BA721	Sold drilled only	1/2"	1.000	1"	5/16-32 Ext. UNEF ; 7/16-24 Int. UNS
BA721-011	Natural	1/2"	1.000	1"	5/16-32 Ext. UNEF ; 7/16-24 Int. UNS
BA721-007	LP	1/2"	1.000	1"	5/16-32 Ext. UNEF ; 7/16-24 Int. UNS

# Robertshaw

## Pilot Orifice - Round

		Round O.D.	Decimal Length	Fractional Length	Threads
<b>Long style</b>					
	RS800 .....Blank .....	11/32"	0.450		
	RS800-0135.....Natural .....	11/32"	0.450		
	RS800-009.....LP .....	11/32"	0.450		
<b>Short style</b>					
	RS801 .....Blank .....	11/32"	0.332		
	RS801-0135.....Natural .....	11/32"	0.332		
	RS801-009.....LP .....	11/32"	0.332		
Replaces #A1800(9B). Aluminum. For 1/4" Compression Connection.					
	RS803 .....Blank .....	3/8"	0.500	1/2"	
	RS803-016.....Natural .....	3/8"	0.500	1/2"	
	RS803-009.....LP .....	3/8"	0.500	1/2"	
Replaces #A1840(2B Target). Aluminum. For 1/4" Compression Connection.					
	RS804 .....Blank .....	3/8"	0.875	7/8"	
	RS804-016.....Natural .....	3/8"	0.875	7/8"	
	RS804-008.....LP .....	3/8"	0.875	7/8"	
Replaces #A1800(9B). Aluminum. For 3/16" Compression Connection.					
	RS805 .....Blank .....	3/8"	1.455		
	RS805-0135.....Natural .....	3/8"	1.455		
	RS805-007.....LP .....	3/8"	1.455		
Replaces #A1810(2B). Aluminum. For 3/16" Compression Connection.					
	RS806 .....Blank .....	5/16"	0.563	9/16"	
	RS806-0135.....Natural .....	5/16"	0.563	9/16"	
	RS806-008.....LP .....	5/16"	0.563	9/16"	
	RS807 .....Blank .....	5/16"	0.812	13/16"	
	RS807-016.....Natural .....	5/16"	0.812	13/16"	
	RS807-008.....LP .....	5/16"	0.812	13/16"	
Replaces #A1820(2C) & A1830(2CH). Aluminum. For 1/4" Tubing.					
	RS813 .....Blank .....	3/8"	0.535		
	RS813-018.....Natural .....	3/8"	0.535		
	RS813-010.....LP .....	3/8"	0.535		
	RS821 .....Blank .....	3/8"	0.510		
	RS821-018.....Natural .....	3/8"	0.510		
	RS821-010.....LP .....	3/8"	0.510		

## Pilot Orifice - Mini Pilot

		Hex Size	Decimal Length	Fractional Length	Threads
<b>1/4" Inverted Flare Connection</b>					
	RS812 .....Blank .....	1/2"	0.605		5/16-32 UNEF
	RS812-0135.....Natural .....	1/2"	0.605		5/16-32 UNEF
	RS812-009.....LP .....	1/2"	0.605		5/16-32 UNEF

Note: Parts not shown to scale.

# Robertshaw

## Pilot Orifice - Hex



Replaces #10-026. For A1860 pilot 200 series.

Aluminum insert #653. 3/16" Compression Connection.

RS816-011 .....Natural & LP.....3/8" .....0.607 .....5/16-24 UNEF x 3/8-24 UNF



Replaces #10-035. For A1860 pilot 200 series.

Aluminum insert #653. 1/4" Compression Connection.

RS817-010.....Natural & LP.....7/16" .....0.650 .....5/16-32 UNEF x 7/16-24 UNS



Replaces #10-037. For A1850 pilot 100 Mini pilot.

Aluminum insert #653. 3/16" Compression Connection.

RS818-010.....Natural & LP.....3/8" .....0.608 .....5/16-32 UNEF x 3/8-24 UNF



Replaces #10-024. For A1870 pilot 400.

Aluminum insert #653. 1/4" Compression Connection.

RS819-016.....Natural & LP.....7/16" .....0.610 .....3/8-24 UNF x 7/16-24 UNS



Replaces #1860 Pilot 200 Series. 1/4" Compression Connection.

RS820 .....Blank .....7/16" .....0.682 .....5/16-24 UNEF x 7/16-24 UNS

RS820-011 .....Natural & LP.....7/16" .....0.682 .....5/16-24 UNEF x 7/16-24 UNS

## Pilot Burner



**Decimal Length Fractional Length**

Replaces #A1810(2B). Brackets are reversible. For 1/4" Compression Connection.

RS814 .....Blank .....0.250 .....2 1/2"

RS814-016.....Natural .....0.250 .....2 1/2"

RS814-008.....LP .....0.250 .....2 1/2"



Replaces #A1810(2B). Brackets are reversible. For 3/16" Compression Connection.

RS815 .....Blank .....0.250 .....2 1/2"

RS815-016.....Natural .....0.250 .....2 1/2"

RS815-008.....LP .....0.250 .....2 1/2"

Note: Parts not shown to scale.

# Robertshaw

## Vertical Pilot Burner

	Decimal Length	Fractional Length	Threads
Replaces #A1800 Series 9B. For 3/16" Compression Connection. 90 degree bracket.			
RS825 .....Sold drilled only .....	3.250	3 1/4"	1/4-32 Ext. UNEF 3/8-24 Int. UNF
RS825-0135.....Natural .....	3.250	3 1/4"	1/4-32 Ext. UNEF 3/8-24 Int. UNF
RS825-008.....LP.....	3.250	3 1/4"	1/4-32 Ext. UNEF 3/8-24 Int. UNF

Replaces #A1800-130-132. For 3/16" Compression Connection. 180 degree bracket.			
RS826 .....Sold drilled only .....	3.250	3 1/4"	1/4-32 Ext. UNEF 3/8-24 Int. UNF
RS826-0135.....Natural .....	3.250	3 1/4"	1/4-32 Ext. UNEF 3/8-24 Int. UNF
RS826-008.....LP.....	3.250	3 1/4"	1/4-32 Ext. UNEF 3/8-24 Int. UNF

Replaces #A1800-125-127. For 1/4" Compression Connection. 90 degree bracket.			
RS827 .....Sold drilled only .....	3.250	3 1/4"	1/4-32 Ext. UNEF 7/16-24 Int. UNS
RS827-0135.....Natural .....	3.250	3 1/4"	1/4-32 Ext. UNEF 7/16-24 Int. UNS
RS827-008.....LP.....	3.250	3 1/4"	1/4-32 Ext. UNEF 7/16-24 Int. UNS

Replaces #A1800-129-131. For 1/4" Compression Connection. 180 degree bracket.			
RS828 .....Sold drilled only .....	3.500	3 1/2"	1/4-32 Ext. UNEF 7/16-24 Int. UNS
RS828-016.....Natural .....	3.500	3 1/2"	1/4-32 Ext. UNEF 7/16-24 Int. UNS
RS828-009.....LP.....	3.500	3 1/2"	1/4-32 Ext. UNEF 7/16-24 Int. UNS

Replaces #A1810(2B), For 1/4" Compression Connection. 180 degree bracket.			
RS829 .....Sold drilled only .....	2.250	2 1/4"	7/16-24 UNS
RS829-0135.....Natural .....	2.250	2 1/4"	7/16-24 UNS
RS829-008.....LP.....	2.250	2 1/4"	7/16-24 UNS



# White-Rodgers

## Pilot Orifice

	Hex Size	Decimal Length	Fractional Length	Threads
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Style X. 1/4" Compression Connection. A & B orifices.

WR900	Sold drilled only	9/16"	1.375	1 3/8" .....	1/2-20 External UNF 7/16-24 Internal UNS
WR900-020	Natural	9/16"	1.375	1 3/8" .....	1/2-20 External UNF 7/16-24 Internal UNS
WR900-012	LP	9/16"	1.375	1 3/8" .....	1/2-20 External UNF 7/16-24 Internal UNS



Style Y. Fits A & B Orifices.

WR901	Sold drilled only	9/16"	1.125	1 1/8" .....	1/2-20 External UNF 1/8-27 Internal NPT
WR901-020	Natural	9/16"	1.125	1 1/8" .....	1/2-20 External UNF 1/8-27 Internal NPT
WR901-012	LP	9/16"	1.125	1 1/8" .....	1/2-20 External UNF 1/8-27 Internal NPT



Style Z. A & B Orifice. 1/4" Compression Connection.

Elbow with swivel for adjusting through 360 degree rotation.

WR902	Sold drilled only	1/2"sq.		1 1/4"x1 1/8" .....	1/2-20 UNF x 7/16-24 UNS
WR902-020	Natural	1/2"sq.		1 1/4"x1 1/8" .....	1/2-20 UNF x 7/16-24 UNS
WR902-012	LP	1/2"sq.		1 1/4"x1 1/8" .....	1/2-20 UNF x 7/16-24 UNS



Style U. 1/4" Compression Connection with CF641.

WR903	Sold drilled only	1/2"	1.825	1 53/64" .....	7/16-20 UNF x 7/16-24 UNS
WR903-018	Natural	1/2"	1.825	1 53/64" .....	7/16-20 UNF x 7/16-24 UNS
WR903-010	LP	1/2"	1.825	1 53/64" .....	7/16-20 UNF x 7/16-24 UNS



Style V. For non-aerated pilots.

WR904	Sold drilled only	1/2"	1.650		1/8-27 NPT x 7/16-20 UNF
WR904-018	Natural	1/2"	1.650		1/8-27 NPT x 7/16-20 UNF
WR904-010	LP	1/2"	1.650		1/8-27 NPT x 7/16-20 UNF



Style W. 1/4" Compression Connection. Elbow with swivel for adjusting through 180 degree rotation.

WR905	Sold drilled only	1/2"		1 1/8"x15/16" .....	7/16-20 UNF
WR905-018	Natural	1/2"		1 1/8"x15/16" .....	7/16-20 UNF
WR905-010	LP	1/2"		1 1/8"x15/16" .....	7/16-20 UNF



Style Y. Fits A & B Orifices.

WR906	Sold drilled only	1/2"	1.375	1 3/8" .....	7/16-20 External UNF 7/16-24 Internal UNS
WR906-018	Natural	1/2"	1.375	1 3/8" .....	7/16-20 External UNF 7/16-24 Internal UNS
WR906-010	LP	1/2"	1.375	1 3/8" .....	7/16-20 External UNF 7/16-24 Internal UNS

Note: Parts not shown to scale.

# Special Tools



## FT124 & FT125 Barbed Hose Fitting

FT124 is a 3/16" hose to 1/8" male pipe thread. 7/16" hex size.  
FT125 is a 1/4" hose to 1/4" male pipe thread. 9/16" hex size.



## TL050 Burner Broach

For reaming and cleaning ports. Will fit either TL061 hand piece or TL072 pin vice. Tapers from 1/8" square. Tough and durable.



## TL051 Serviceman's Friend

For use with flow meter and other applications. One end of fitting has 1/8" pipe thread, 1/4" pipe thread and special 5/16" x 32 thread. Opposite end has regular hose fitting, also 1/8" straight pipe thread. Hose can be used on either end. Can also be used for connect manometer to Whirlpool and Several refrigerator's gas supply for checking pressures. See Manometer TL331.



## TL061 Handle For Reamer & Broach

Fits Larger Reamer TL070, TL071, the Industrial Reamer, and TL050 Burner Broach.



## TL062 Crimping Tool For Large Plugs

For crimping MI100 Adaptor.



## TL063 Driving Tool

To drive MI100 Adaptor



## TL064 Crimping Tool For Smaller Plugs

Crimping tool for small plugs.



## TL068 Reamer (small) 3/32"

For reaming orifices. Tapered point allows fine adjustments of large or small burners. Short stubby construction insures long life. Double cutting edge.



## TL069 Reamer (medium) 1/8" diameter

For large orifice size. Double Cutting Edge.



## TL070 Reamer (large) 5/32" Diameter

Reams proper diameter hole to allow press fit for MI100 Adaptor. Two fast cutting edges. Use T0061 Reamer Hand piece. Turn Handle in one direction when reaming.



## TL071 Reamer (Industrial) 0.204 Diameter

For Large orifice sizes and holes to accommodate 1/4" or 5/16" tap. Recommended for use with TL061 Hand piece.



## TL072 Pin Vice For Gauging Drills

For holding large and small gauging drills securely while reaming, preventing spinning. This tool is a must when using gauging drills.

Note: Parts not shown to scale.

# Special Tools



## TL074 Safety Anvil

Orifice caps can be held in the anvil while reaming size for the adaptors. This tool is used to install MI100 Adaptor.



## TL085 Gas Match

The new version of our Gas Match has a flexible 15" extender nozzle, a continuous piezo electric starter to keep it burning even in windy conditions and fully adjustable flame. It uses AA batteries which are included, but to comply with UPS and USPS regulations it is shipped w/out butane.



## TL086 Shot-a-Lite Flint Match

Shot-a-Lite flint match is a flat, pistol shaped device that throws off a brilliant spark from a flint at each squeeze of the trigger. The flint adjusts automatically and standards flints may be used as replacements.



## TL087 Match Holder, Extendable

It's back and Improved! A magnet has been added to the clip end and it has a thicker and stronger shaft.



## TL090 Micro Pin Vise with Drills

This Pin Vise is only slightly larger than a pall point pen (3/8" diameter) and is designed to hold drill bits ranging in size from #80 (.0135") to #52 (.0635"). It is supplied with 12 high speed drill bits, #52 through #74 in even number sizes only.



## TL092 Precision Pin Vise Set with Case

This Set contains two pin vises in a hand fitted, zippered case that houses up to eight storage tubes to hold small drills, broaches, taps and other small tools. Five storage tubes are included along with a still scribe, seven drill bits, four micro-taps and a spare collet.



## TL095 Pilot Cleaning Pump Kit

Used for removing moisture, carbon buildup and lint from orifices and for removing water from flooded lines. Supplied with 5" flex hose and 1/8", 3/16" and 1/4# pilot tubing adaptors.



## TL096 5-Piece Positioning and Spring Hook Set

This set contains a Twist Chuck Multi-Purpose Handle and five interchangeable stainless-steel push/pull hooks that are perfect for positioning or retrieving hard to reach wires and springs or adjusting the flame slits in burners. The blades are 5" long with an overall length of 7 1/2" to 8 1/2" including handle.

Note: Parts not shown to scale.

# Special Tools



## TL100 6" Digital Electronic Calipers

The 6" electronic, hardened stainless-steel digital caliper is easy to read and is great help when determining thread sizes and part length. A simple push of a button instantly converts the reading from inches to metric.

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## TL102 Retractable Orifice Reamer Cleaner

A MUST HAVE for any service provider.

Retractable Orifice Reamer Cleaner (patent pending). This unique service tool is a versatile pocket pen to allow the user to clean or ream out orifices of different sizes without changing tools. When done it fits in their pocket!

The pen is a two part tool. The housing is made from .375 diameter 6061 aluminum with a diamond knurl placed in the middle for finger control. The reamer is made from heat treated steel for strength and long life. The tool allows for a range from .125" to size #52 (0.0635"). The calibration ranges have been permanently etched on the top of the stem for easy view and there is a hex head for firm finger grip when in use.

These two parts are connected by a multipurpose rubber "O" that fits between the reamer and the housing. Once the desired calibration is selected, the pen can be locked into position by being lightly turned in either direction. When done, turn the tool back to center and slide closed.

The Retractable Orifice Reamer Cleaner is a great addition to our other products designed to assist the service professional such as the quality orifices, gas conversions fittings, gauging drills, reamers, and broaches. Check us out for all your propane and natural gas needs.

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## TL231 Manometer

For measuring pressure. Scale allows reading up to 0 – 14 1/4" water column. This sturdy manometer has black lettering for easy reading. Barbed hose fitting 3/16" hose to 1/8" male pipe thread. Magnet on top.

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## VA126 Graphite Stop Cock Grease

2.0 oz. Tube. Propane and butane gases require the use of a stop cock grease insoluble in these gases. For use up to 185°F.

Note: Parts not shown to scale.



# Orifice Capacities

Natural Gas - 1050 BTU - 0.65 SP . GR  
LP - 2500 BTU - 1.53 SP . GR

		NATURAL GAS					LP
INCHES OF H2O		3	3.5	4	4.5	7	11
DRILL SIZE	DECIMAL INCHES	BTU	BTU	BTU	BTU	BTU	BTU
80	0.0135	428	463	495	525	654	1273
79	0.0145	494	534	571	605	755	1469
1/64	0.0156	572	618	661	701	874	1700
78	0.0160	602	650	695	737	919	1788
77	0.0180	762	823	879	933	1163	2263
76	0.0200	940	1016	1086	1152	1436	2794
75	0.0210	1037	1120	1197	1270	1583	3081
74	0.0225	1190	1285	1374	1457	1818	3536
73	0.0240	1354	1462	1563	1658	2068	4024
72	0.0250	1469	1587	1696	1799	2244	4366
71	0.0260	1589	1716	1835	1946	2427	4722
70	0.0280	1843	1991	2128	2257	2815	5476
69	0.0292	2004	2165	2314	2455	3062	5956
68	0.0310	2259	2440	2608	2767	3451	6713
1/32	0.0313	2303	2487	2659	2820	3518	6843
67	0.0320	2407	2600	2779	2948	3677	7153
66	0.0330	2560	2765	2956	3135	3910	7607
65	0.0350	2880	3110	3325	3527	4399	8557
64	0.0360	3046	3291	3518	3731	4654	9053
63	0.0370	3218	3476	3716	3941	4916	9563
62	0.0380	3394	3666	3919	4157	5185	10087
61	0.0390	3575	3862	4128	4379	5461	10625
60	0.0400	3761	4062	4343	4606	5745	11176
59	0.0410	3951	4268	4563	4840	6036	11742
58	0.0420	4147	4479	4788	5078	6334	12322
57	0.0430	4346	4695	5019	5323	6639	12916
56	0.0465	5083	5490	5869	6225	7764	15104
3/64	0.0469	5171	5585	5970	6333	7898	15365
55	0.0520	6356	6865	7339	7785	9709	18888
54	0.0550	7111	7680	8211	8709	10862	21131
53	0.0595	8322	8989	9609	10192	12712	24730
1/16	0.0625	9182	9918	10603	11246	14026	27286
52	0.0635	9478	10238	10945	11609	14479	28167
51	0.0670	10552	11398	12184	12924	16119	31357
50	0.0700	11518	12441	13300	14107	17594	34228
49	0.0730	12527	13530	14464	15342	19135	37225
48	0.0760	13577	14665	15678	16629	20740	40347
5/64	0.0781	14338	15487	16556	17560	21902	42608
47	0.0785	14485	15646	16726	17741	22127	43045
46	0.0810	15423	16658	17809	18889	23558	45831
45	0.0820	15806	17072	18251	19358	24144	46969
44	0.0860	17385	18778	20075	21293	26557	51663
43	0.0890	18620	20111	21500	22804	28442	55331
42	0.0935	20550	22197	23729	25168	31391	61067
3/32	0.0938	20682	22339	23882	25330	31592	61460
41	0.0960	21664	23399	25015	26532	33092	64377
40	0.0980	22576	24384	26068	27649	34485	67087

		NATURAL GAS					LP
INCHES OF H2O		3	3.5	4	4.5	7	11
DRILL SIZE	DECIMAL INCHES	BTU	BTU	BTU	BTU	BTU	BTU
39	0.0995	23272	25137	26872	28502	35549	69156
38	0.1015	24217	26157	27963	29660	36992	71964
37	0.1040	25425	27462	29358	31139	38837	75553
36	0.1065	26662	28798	30786	32654	40726	79229
7/64	0.1094	28133	30388	32486	34456	42975	83603
35	0.1100	28443	30722	32843	34835	43447	84522
34	0.1110	28962	31283	33443	35472	44241	86066
33	0.1130	30015	32420	34659	36761	45849	89195
32	0.1160	31630	34165	36524	38739	48316	93994
31	0.1200	33849	36562	39086	41457	51706	100588
1/8	0.1250	36729	39672	42411	44984	56104	109145
30	0.1285	38815	41924	44819	47538	59290	115343
29	0.1360	43478	46961	50204	53249	66413	129200
28	0.1405	46402	50120	53581	56831	70881	137892
9/64	0.1406	46469	50192	53657	56912	70982	138088
27	0.1440	48743	52649	56284	59698	74456	144847
26	0.1470	50795	54865	58653	62211	77591	150946
25	0.1495	52538	56747	60665	64345	80253	156123
24	0.1520	54309	58661	62711	66515	82959	161389
23	0.1540	55748	60215	64372	68277	85157	165664
5/32	0.1563	57426	62027	66309	70332	87719	170649
22	0.1570	57941	62584	66905	70963	88507	172181
21	0.1590	59427	64188	68620	72783	90776	176596
20	0.1610	60931	65813	70357	74625	93074	181066
19	0.1660	64775	69965	74795	79332	98945	192487
18	0.1695	67535	72946	77982	82713	103161	200690
11/64	0.1719	69461	75026	80206	85072	106103	206413
17	0.1730	70353	75990	81236	86164	107465	209063
16	0.1770	73644	79544	85036	90195	112492	218843
15	0.1800	76161	82263	87943	93278	116338	226324
14	0.1820	77863	84102	89908	95362	118938	231381
13	0.1850	80451	86897	92897	98532	122891	239072
3/16	0.1875	82640	89261	95425	101213	126235	245577
12	0.1890	83968	90695	96957	102839	128263	249522
11	0.1910	85754	92625	99020	105027	130992	254831
10	0.1935	88014	95066	101629	107794	134443	261546
9	0.1960	90303	97538	104272	110598	137940	268348
8	0.1990	93088	100547	107489	114009	142194	276625
7	0.2010	94969	102578	109660	116312	145067	282213
13/64	0.2031	96963	104732	111964	118755	148114	288141
6	0.2040	97825	105663	112958	119810	149430	290701
5	0.2055	99269	107222	114626	121579	151635	294991
4	0.2090	102679	110906	118563	125755	156844	305125
3	0.2130	106647	115192	123145	130615	162906	316916
7/32	0.2188	112534	121550	129943	137825	171898	334411
2	0.2210	114808	124007	132569	140611	175372	341169
1	0.2280	122196	131987	141100	149659	186658	363124

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