

# Airetool®

## Product Catalog



Condenser & Boiler Expanders

Rolling Controls

Pipe & Tube Cleaners

Installation & Removal Tools



Equipment Group International





The Airetool® family of tube service tools is one of the most diverse in the heat transfer industry with a broad selection of tube expanders, tube rolling controls, tube cleaners, and re-tubing tools to cover various applications.

## *Airetool*®

### ***Tools that perform***

Improving production rates and decreasing cost are critical to the success of today's manufacturer or contractor. The Airetool line of tools are designed and manufactured to perform consistently time after time. When it comes to performance and reliability, there is no doubt as to why manufacturers and contractors around the world have come to rely on the Airetool brand of products.

### ***Tools of the highest quality***

When we say our tools are built well, we really mean it. Equipment Group International has brought back the exacting quality that Airetool brand is known for. While manufacturing in the USA to the highest standard.

### ***Tools that work with the operator***

It is simple... give an operator a tool that is comfortable to use and the operator will work better. Airetool tool balancing systems do just that, coupled with extending expander or associated tooling life.

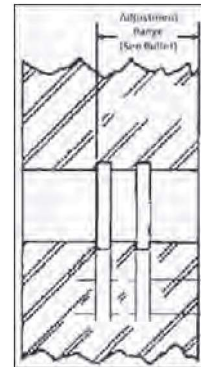


# Tube Installation Accessories

Heat Exchanger & Condenser Tube Expanders Accessories

## GT Serrating Tools

An innovative line of serrating tools that re-defines grooving technology. The GT Serrating tools efficiently cut grooves in tube sheet holes which increases the strength of the rolled joint between the tube and tube sheet.



### Tube sheet hole application range: 1/2" – 1" (12.7 – 25.4 mm) I.D.

- Ti coated bits available in SAE and Metric sized groove configurations & shapes.
- Serrating Tools available with standard mandrel or mandrels with carbide inserts.
- Mandrels with carbide inserts remove burrs left on grooves eliminating an extra de-burring process.
- Compact design for extreme rigidity, extended bit life, less run-out and increased accuracy.
- Unique through-spindle coolant delivery system provides superior groove quality and unmatched bit life.
- Catalog tools have two bit patterns to choose from, all others are special, made to order, and priced on request.
- Designed for easy bit replacement which saves time and money.
- Depth from face of tube sheet to the back of the second groove is adjustable from 1/2" to 1-1/4" (12.7 - 31.75mm).



#### Complete serrating tool, furnished with carbide insert mandrel, SAE tool bit

Tube Sheet Hole		Inch Tool Number* (Order Number)	Shank	Standard Tool Bit	Optional Tool Bit
in.	mm			1/8 x 1/4 x 1/8"	1/8 x 3/8 x 1/8"
1/2	12.70	GT 500C 3MT (5526083)	3MT	GT 5003 S (2902039)	GT 5003 (2902030)
5/8	15.80	GT 625C 3MT (5525886)	3MT	GT 5003 S (2902039)	GT 5003 (2902030)
3/4	19.05	GT 750C 3MT (5525756)	3MT	GT 7503 S (2901403)	GT 7503 (2900686)
7/8	22.20	GT 875C3MT (5525587)	3MT	GT 7503 S (2901403)	GT 7503 (2900686)
1	25.40	GT 1000C 3MT (5525706)	3MT	GT 7503 S (2901403)	GT 7503 (2900686)
3/4	19.05	GT 750C 1SP (5526137)	1" RD	GT 7503 S (2901403)	GT 7503 (2900686)
1	25.40	GT 1000C 1SP (5526138)	1" RD	GT 7503 S (2901403)	GT 7503 (2900686)

\* Includes "Standard Tool Bit"

#### Complete serrating tool, furnished with carbide insert mandrel, Metric tool bit

Tube Sheet Hole		Inch Tool Number* (Order Number)	Shank	Standard Tool Bit	Optional Tool Bit
in.	mm			3 x 6 x 3 mm	3 x 10 x 3 mm
1/2	12.70	GT 1270C 3MT (5526115)	3MT	GT 50 363 (2902091)	GT 50 3103 (2902117)
5/8	15.80	GT 1588C 3MT (5526116)	3MT	GT 50 363 (2902091)	GT 50 3103 (2902117)
3/4	19.05	GT 1905C 3MT (5526117)	3MT	GT 75 363 (2902092)	GT 75 3103 (2902118)
7/8	22.20	GT 2223C 3MT (5526118)	3MT	GT 75 363 (2902092)	GT 75 3103 (2902118)
1	25.40	GT 2540C 3MT (5526119)	3MT	GT 75 363 (2902092)	GT 75 3103 (2902118)
3/4	19.05	GT 1905C 1SP (5526164)	1" RD	GT 75 363 (2902092)	GT 75 3103 (2902118)
1	25.40	GT 2540C 1SP (5526165)	1" RD	GT 75 363 (2902092)	GT 75 3103 (2902118)

\* Includes "Standard Tool Bit"

**Complete serrating tool, furnished with standard mandrel, SAE tool bit**

Tube Sheet Hole		Inch Tool Number* (Order Number)	Shank	Standard Tool Bit	Optional Tool Bit
in.	mm			1/8 x 1/4 x 1/8"	1/8 x 3/8 x 1/8"
1/2	12.70	GT 500NC 3MT (5526299)	3MT	GT 5003 S (2902039)	GT 5003 (2902030)
5/8	15.80	GT 625NC 3MT (5526296)	3MT	GT 5003 S (2902039)	GT 5003 (2902030)
3/4	19.05	GT 750NC 3MT (5526297)	3MT	GT 7503 S (2901403)	GT 7503 (2900686)
7/8	22.20	GT 875NC 3MT	3MT	GT 7503 S (2901403)	GT 7503 (2900686)
1	25.40	GT 1000NC 3MT (5526298)	3MT	GT 7503 S (2901403)	GT 7503 (2900686)
3/4	19.05	GT 750NC 1SP	1" RD	GT 7503 S (2901403)	GT 7503 (2900686)
1	25.40	GT 1000NC 1SP	1" RD	GT 7503 S (2901403)	GT 7503 (2900686)

\* Includes "Standard Tool Bit"

**Complete serrating tool, furnished with standard mandrel, Metric tool bit**

Tube Sheet Hole		Inch Tool Number* (Order Number)	Shank	Standard Tool Bit	Optional Tool Bit
in.	mm			3 x 6 x 3 mm	3 x 10 x 3 mm
1/2	12.70	GT 1270NC 3MT	3MT	GT 50 363 (2902091)	GT 50 3103 (2902117)
5/8	15.80	GT 1588NC 3MT	3MT	GT 50 363 (2902091)	GT 50 3103 (2902117)
3/4	19.05	GT 1905NC 3MT (526421)	3MT	GT 75 363 (2902092)	GT 75 3103 (2902118)
7/8	22.20	GT 2223NC 3MT (5526305PT)	3MT	GT 75 363 (2902092)	GT 75 3103 (2902118)
1	25.40	GT 2540NC 3MT	3MT	GT 75 363 (2902092)	GT 75 3103 (2902118)
3/4	19.05	GT 1905NC 1SP	1" RD	GT 75 363 (2902092)	GT 75 3103 (2902118)
1	25.40	GT 2540NC 1SP	1" RD	GT 75 363 (2902092)	GT 75 3103 (2902118)

\* Includes "Standard Tool Bit"

**GT Serrating Tool Nomenclature**

XX ↓ Tool Series	XXXX ↓ Tube Sheet Hole Dia.	XX ↓ Mandrel Type	XXX ↓ Shank Size	XXX ↓ Specials
GT	500 = 1/2" 625 = 5/8" 750 = 3/4" 875 = 7/8" 1000 = 1" 1270 = 12.70mm 1588 = 15.88mm 1905 = 19.05mm 2223 = 22.23mm 2540 = 25.40mm	C = Carbide NC = Non-carbide	3MT = #3 Morse Taper 1SP = 1" (25.4mm) Round	Longer reach



**Example**  
GT 5003 S  
(2902039)





# Tube Installation Accessories

Heat Exchanger & Condenser Tube Expanders Accessories



## Flaring Tools



The Airetool FT-515 –60° flaring tools are designed to flare 1/2" - 1-1/2" (12.7 - 38.1mm) O.D. tubes. Furnished with Type 01 or Type 06 round shanks for use with standard chipping hammers.

Model Number	Ordering Number	Flare Angle	Shank
FT 515 01 Flaring Tool	2470950	60 Degree	-01
FT 515 06 Flaring Tool	2973803	60 Degree	-06



## Belling and Flaring Tools



Belling tool – pilot end fits tube I.D. with Type 01 shank. Specify tool OD, gauge, radius in tube sheets.



## Beading Tool



Model Number	Ordering Number	Radius (in.)	Shank Type
12-RM -9-5/32-R-01	2968677	5/32	Type 01
12-RM -9-1/4-R-01	2968676	1/4	(.680" round x 2 3/8" long)

## Sleeve Type Extensions

Designed for use where tubes are close to the shell of the condenser. Small diameter of female end allows access to these tubes.

Sleeve Type Extension Complete	Order Number	Square Drive Size (Male/Female)		Overall Length	
		In.	mm	In.	mm
3/8 x 12	5515758	3/8	9.5	12	305
3/8 x 18	5513774	3/8	9.5	18	457
3/8 x 24	5515759	3/8	9.5	24	610
3/8 x 36	5515761	3/8	9.5	36	915
1/2 x 12	5515733	1/2	12.7	12	305
1/2 x 18	5513775	1/2	12.7	18	457
1/2 x 24	5515734	1/2	12.7	24	610
3/4 x 12	5515735	3/4	19.0	12	305
3/4 x 18	5515736	3/4	19.0	18	457
3/4 x 24	5515737	3/4	19.0	24	610



## Extensions with Quick-Change Chuck

Varying extension lengths are used for hard-to-reach tubes. Quick-change chuck enables operator to change expanders quickly. Specify size of square drive and extension length.



Quick Chang Extension Complete	Order Number	Square Drive Size (Male/Female)		Overall Length	
		In.	mm	In.	mm
QC-375-6	5501200	3/8	9.5	6	152
QC-375-8	5501600	3/8	9.5	8	203
QC-375-12	5502000	3/8	9.5	12	305
QC-375-18	5503000	3/8	9.5	18	457
QC-375-24	5504000	3/8	9.5	24	610
QC-375-30	5504500	3/8	9.5	30	762
QC-375-36	5505000	3/8	9.5	36	915
QC-500-12	5507000	1/2	12.7	12	305
QC-500-18	5508000	1/2	12.7	18	457
QC-500-24	5509000	1/2	12.7	24	610
QC-500-30	5510000	1/2	12.7	30	762
QC-500-36	5511000	1/2	12.7	36	915



## Universal Joints and Extensions

Designed for hard-to-reach tubes, the universal joint performs smoothly without binding. Specify the size of the square drive and extension length.



Universal Joint	Order Number	Square Drive Size Female		Overall Length	
		In.	mm	In.	mm
3/8 x 3/8	2115300	3/8	9.5	2.50	64
1/2 x 1/2	2039800	1/2	12.7	2.75	70
3/4 x 3/4	2974913	3/4	19.0	3.50	89

### Universal Extensions

Universal Extensions	Order Number	Square Drive Size Male/Female		Overall Length	
		In.	mm	In.	mm
GP-3/8 x 6	5514896	3/8	9.5	6	152
GP-3/8 x 12	5514898	3/8	9.5	12	305
GP-3/8 x 18	5514899	3/8	9.5	18	457

# Tube Installation Accessories

Heat Exchanger & Condenser Tube Expanders Accessories



5150DP-160B



5150DP-800B

## EGI Industrial Drills

Compact, powerful pistol grip drill uses precision machined planetary gears to generate high torque to drill. Handle, exhaust and muffler meet OSHA requirements. Equipped with Jacobs 33BA-1/2 heavy-duty chuck and dead handle.

Specifications	5150DP-400B	5150DP-800B	5150DP-055B	5150DP-160B
Drilling Capacity	1/2"	1/2"	1/2"	1/2"
Free Speed	400 RPM	800 RPM	55 RPM	160 RPM
Spindle Thread	1/2"-20	1/2"-20	1/2"-20	1/2"-20
Rec'd Hose Size	3/8"	3/8"	3/8"	3/8"
Length	8-1/2"	8-1/2"	9-3/4"	9-3/4"
Weight	5.5 lbs.	5.5 lbs.	6.0 lbs.	6.0 lbs.
Air Inlet Thread	3/8"	3/8"	3/8"	3/8"
Avg. Air Cons.	6 cfm	6 cfm	6 cfm	6 cfm



5042

Specifications	5042
Drilling Capacity	1/2"
Free Speed	800 RPM
Spindle Thread	3/8"-24
Rec'd Hose Size	3/8"
Length	7"
Weight	4 lbs.
Air Inlet Thread	1/4"
Avg. Air Cons.	10 cfm

## EGI - 1/2" Heavy-Duty Drill (Reversible)

This economic yet rugged 1/2" reversible drill is ideal for drilling, running taps, screws and other fasteners. The 800 RPM gives you the power you need for heavy drilling applications and yet enough speed to make driving applications go faster. Easy to use forward reverse lever is thumb operated for quick action. Comes equipped with Jacobs multicraft 1/2" cap chuck and dead handle to steady the drill and absorb the torque.



Motor No.	Free Speed	Drilling	Reaming/Tapping
222J	1025 RPM	9/16"	3/8"
222K	750 RPM	9/16"	7/16"
222M	350 RPM	7/8"	5/8"

## 222 Extra Heavy-Duty Drill/Wood Borer

Features include ball bearing support for long life and efficient operation, a graduated roll throttle for speed control, and durable spur gearing. **Includes breast plate, dead handle and a built-in lubricator standard. Equipped with 1/2" Air Inlet Thread requiring Average Air Consumption of 50 cfm. Recommended hose size of 1/2".**



## Tube End Facer

The Airetool TEF Tube End Facer is ideally suited for facing tube ends on heat exchangers and condensers. Tools can also be used to remove welds until they are flush with the tube sheet during tube removal and re-tubing processes.

**Tube application range: 3/8" - 2-1/2" (9.5 - 63.5mm) O.D.**

- Includes full set of free-turning pilots allowing use with several tube gauges.
- Adjustable ball bearing thrust collar assures uniform tube facing.
- Tube End Facers are equipped with 7/16" hex shank to fit standard drill chucks.
- Cutting bits are made from quality tool steel or stainless steel for extended life.

Tube O.D.		Tule No. (Order No.)	Gauge	Hex Shank		Spare Bits	
In.	mm			In.	mm	non-ferrous or Carbon Steel	Stainless Steel
3/8	9.5	TEF-375 (5519632)	16-20	5/16	7.9	TEF-376 (2987908)	TEF-376-SS (2991788)
1/2	12.7	TEF-500 (5332415)	16-20	3/8	9.5	TEF-506 (2662531)	TEF-506-SS (2983169)
5/8	15.8	TEF-625 (5332425)	14-18	3/8	9.5	TEF-626 (2662558)	TEF-626-SS (2983170)
3/4	19.0	TEF-750 (5332450)	10-18	3/8	9.5	TEF-756 (2662585)	TEF-756-SS (2983162)
7/8	22.2	TEF-875 (5332460)	14-18	3/8	9.5	TEF-876 (2662603)	TEF-876-SS (2983163)
1	25.4	TEF-1000 (5332475)	10-18	3/8	9.5	TEF-1006 (2662633)	TEF-1006-SS (2983164PT)
1	25.4	TEF-1000 (5526476)	20-24	3/8	9.5	TEF-1006 (2662633)	TEF-1006-SS (2983164PT)
1-1/8	28.5	TEF-1125 (5514016)	12-14	3/8	9.5	TEF-1126 (2975739)	TEF-1126 SS (2990074)
1-1/8	28.5	TEF-1125 (5526477)	20-24	3/8	9.5	TEF-1126 (2975739)	TEF-1126 SS (2990074)
1-1/4	31.7	TEF-1250 (5513801)	12-18	3/8	9.5	TEF-1256 (2968692)	TEF-1256 SS (2987497)
1-1/4	31.7	TEF-1250 (5526478)	20-24	3/8	9.5	TEF-1256 (2968692)	TEF-1256 SS (2987497)
1-1/4	31.7	TEF-1500-SS (5524268PT)	14-18	3/8	9.5	TEF-1256 SS (2987497)	TEF-1256 SS (2987497)
1-1/2	38.1	TEF-1500 (5512103)	12-14	7/16	11.1	TEF-1506 (2968598)	TEF-1506 SS (2990665)
1-3/4	44.4	TEF-1750 (5513605)	12-14	7/16	11.1	TEF-1756 (2974354)	TEF-1756 SS
2	50.8	TEF-2000 (5512102)	12-14	7/16	11.1	TEF-2006 (2968544)	TEF-2006 SS (2991618)
2-1/2	63.5	TEF-2500 (5512202PT)	5-7	3/4	19.0	TEF-2506 (2968963PT)	TEF-2506 SS

A set of even gauge pilots are supplied with tube end facing tools shown above. Other Sizes available. Contact customer service for details.



# Tube Installation Accessories

Heat Exchanger & Condenser Tube Expanders Accessories



## Airetool Hole Gauge for Heat Exchanger Tubes



These easy to use inline hole gauges feature three-point contact for self-centering and direct reading scale. All hole gauges furnished with test ring for scale verification. Standard reach tools up to 1" (25.4mm) include carrying case.

**Tube Range: 0.500 - 2.500" O.D. (12.70 - 63.50mm)**

- Graduated scale in 0.002" (.05 mm) increments for fast, accurate measurement of tube I.D.
- Each hole gauge also has the range to measure tube sheet holes in next smaller size.
- Standard adjustable reach of 6" (152.4 mm) and 12" (304.8mm) lengths.

Tube O.D.		Hole Gauge Reach*		Measurement Range	
in.	mm	6" (152.4mm)	12" (304.8mm)	in.	mm
1/2	12.7	HG-500-6 (5171001)	HG-500-12 (5171100)	.350 - .440	8.89 - 11.18
5/8	15.8	HG-625-6 (5171200)	HG-625-12 (5171300)	.440 - .545	11.18 - 13.84
3/4	19.0	HG-750-6 (5171400)	HG-750-12 (5171500)	.550 - .700	13.97 - 17.78
7/8	22.2	HG-875-6 (5171600)	HG-875-12 (5171700)	.675 - .825	17.15 - 20.96
1	25.4	HG-1000-6 (5171800)	HG-1000-12 (5171900)	.800 - .950	20.32 - 24.13
1-1/4	31.7	HG-1250-6 (5172000)	HG-1250-12 (5172100)	.955 - 1.105	24.26 - 28.07
1-3/8	34.9	HG-1375-6 (5521640)	HG-1375-12 (5521640)	1.060 - 1.220	26.92 - 30.99
1-1/2	38.1	HG-1500-6 (5518603)	HG-1500-12 (5519614)	1.200 - 1.430	30.48 - 36.22
1-3/4	44.5	HG-1750-6 (5521886)	HG-1750-12 (5524917)	1.450 - 1.610	36.83 - 40.89
2	50.8	HG-2000-6 (5521825)	HG-2000-12 (5521143)	1.700 - 1.930	43.18 - 49.02
2-1/2	63.5	HG-2500-6 (5521098)	HG-2500-12	2.130 - 2.360	54.10 - 59.94

\*Longer reaches available on request



## Airetool (TSHB) Tube Sheet Hole Brush

Tube Sheet Hole Brushes are used to clean and polish the inside surface of the tube sheet holes prior to tube stuffing process.

Model Number	Order Number	Hole Size (in.)	
		in.	mm
TSHB-1/2	1716654	0.500	12.7
TSHB-5/8	1716655	0.625	15.9
TSHB-3/4	1716656	0.750	19.0
TSHB-7/8	1716657	0.875	22.2
TSHB-1	1716658	1.000	25.4
TSHB-1-1/4	1716659	1.250	31.8
TSHB-1-1/2	1717065	1.500	38.1



## Airetool (BTG) Tube Guide

Tube guides have a tapered aluminum pilot with a replaceable nylon brush and are used to guide tubes through tube sheets and support plate holes.

- Nylon brush fits in the tube end, holding pilot firmly in place.
- Speeds "tube stuffing" process which can lower installation costs.
- Prevents damage to the tube end reducing rework and scrap materials.

Tube O.D.		Gauge	Model Number	Order Number
in.	mm			
1/2	12.7	16-18	BTG 050 1618 TUBE GUIDE BTG-1	5342004
1/2	12.7	19-20	BTG 050 1920 TUBE GUIDE BTG-2	5342006
1/2	12.7	21-23	BTG 050 2123 TUBE GUIDE BTG-2-1/2	5515585
5/8	15.8	12-13	BTG 062 1213 TUBE GUIDE BTG-3	5342008
5/8	15.8	14-16	BTG 062 1416 TUBE GUIDE BTG-4	5342010
5/8	15.8	17-20	BTG 062 1720 TUBE GUIDE BTG-5	5342012
5/8	15.8	19-22	BTG 060 1922 TUBE GUIDE	5526534PT
5/8	15.8	22-24	BTG 062 2224 TUBE GUIDE BTG-5-1/2	5512197
3/4	19	10-12	BTG 075 1012 TUBE GUIDE BTG-6	5342014
3/4	19	13-16	BTG 075 1316 TUBE GUIDE BTG-7	5342016
3/4	19	17-20	BTG 075 1720 TUBE GUIDE BTG-8	5342018
3/4	19	22-24	BTG 075 2224 TUBE GUIDE BTG 8-1/2	5515738
7/8	22.2	10-12	BTG 087 1012 TUBE GUIDE BTG 9	5342020PT
7/8	22.2	13-16	BTG 087 1316 TUBE GUIDE BTG-10	5342022
7/8	22.2	17-20	BTG 087 1720 TUBE GUIDE BTG-11	5342024
7/8	22.2	21-22	BTG 087 2122 TUBE GUIDE BTG 11-1/2	5342026
1	25.4	8-9	BTG 100 89 TUBE GUIDE BTG-12-1/2	5516015
1	25.4	10-12	BTG 100 1012 TUBE GUIDE BTG 12	5342028
1	25.4	13-16	BTG 100 1316 TUBE GUIDE BTG 13	5342030
1	25.4	17-20	BTG 100 1720 TUBE GUIDE BTG 14	5342032
1	25.4	21-23	BTG 100 2123 TUBE GUIDE BTG 14-1/2	5512141
1 - 1/4	31.8	10-13	BTG 125 1013 TUBE GUIDE BTG 15	5342034
1 - 1/4	31.8	14-20	BTG 125 1420 TUBE GUIDE BTG 16	5342036
1 - 1/2	38.1	9-13	BTG 150 913 TUBE GUIDE	5342038
1 - 1/2	38.1	14-20	BTG 150 1420 TUBE GUIDE	5342040

Other sizes are available upon request. Pilots made of other materials also available. A minimum order quantity of 50 per size applies for special sizes or materials.

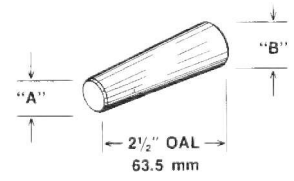
# Tube Installation Accessories

Heat Exchanger & Condenser Tube Expanders Accessories



## One Piece Tube Plugs

Ideal for sealing leaky tubes in condensers or heat exchangers. Just drive a plug into each end of leaky tube.



*Note: The Airetool RCM Series One Revolution Tube Cutter can be used to puncture the tube to ensure that pressure cannot build up in the tube and cause the plugs to loosen or blow out. See page 57 for detailed information on the Airetool RCM Series Tube Cutters. Minimum order quantity 25 pieces.*

O.D.		Gauge	"A"		"B"		Brass	Steel	316* S.S.	304* S.S.	416* S.S.	Aluminum*	Monel*
in.	mm		in.	mm	in.	mm							
3/8	9.5	15-22	0.176	4.47	0.388	9.86	3751-3 (2979536)	3752-3 (2980392)	3753-3 (2985475)	3754-3 (2985475)	3755-3 (2985475)	3756-3 (2985475)	3757-3 (2985475)
1/2	12.7	11-14	0.176	4.47	0.388	9.86							
1/2	12.7	15-22	0.301	7.65	0.513	13.03	5001-4 (2979537)	5002-4 (2980022)	5003-4 (2981007)	5004-4 (2986996)	5005-4 (2986996)	5006-4 (2986996)	5007-4 (2986996)
5/8	15.8	11-14	0.301	7.65	0.513	13.03							
5/8	15.8	15-22	0.426	10.82	0.638	16.20	6251-5 (2979231)	6252-5 (2979232)	6253-5 (2983587)	6254-5 (2979413)	6255-5 (2983587)	6256-5 (2983587)	6257-5 (2983587)
3/4	19	11-14	0.426	10.82	0.638	16.20							
3/4	19	15-22	0.551	14.00	0.763	19.38	7501-6 (2979233)	7502-6 (2979234)	7503-6 (2980988)	7504-6 (2983589)	7505-6 (2983589)	7506-6 (2983589)	7507-6 (2983589)
7/8	22.2	11-14	0.551	14.00	0.763	19.38							
7/8	22.2	15-22	0.676	17.17	0.888	22.56	8751-7 (2979235)	8752-7 (2979236)	8753-7 (2981008)	8754-7 (2983590)	8755-7 (2983590)	8756-7 (2983590)	8757-7 (2983590)
1	25.4	11-14	0.676	17.17	0.888	22.56							
1	25.4	15-22	0.801	20.35	1.013	25.73	1001-8 (2979237)	1002-8 (2979238)	1003-8 (2983588)	1004-8 (2983591)	1005-8 (2983591)	1006-8 (2983591)	1007-8 (2983591)
1-1/8	28.5	11-14	0.801	20.35	1.013	25.73							
1-1/8	28.5	15-22	0.926	23.52	1.138	28.90	1121-9 (2989650)	1122-9 (2979553)	1123-9 (2994101)	1124-9 (2994101)	1125-9 (2994101)	1126-9 (2994101)	1127-9 (2994101)
1-1/4	31.7	11-14	0.926	23.52	1.138	28.90							
1-1/4	31.7	15-22	1.015	25.78	1.263	32.08	1251-10	1252-10	1253-10 (2994102)	1254-10 (2994102)	1255-10 (2994102)	1256-10 (2994102)	1257-10 (2994102)
1-3/8	34.9	11-14	1.015	25.78	1.263	32.08							
1-3/8	34.9	15-22	1.176	29.87	1.388	35.26	1371-11	1372-11 (2979748)	1373-11 (2979748)	1374-11 (2979748)	1375-11 (2979748)	1376-11 (2979748)	1377-11 (2979748)
1-1/2	38.1	11-14	1.176	29.87	1.388	35.26							
1-1/2	38.1	15-22	1.301	32.66	1.513	38.93	1501-12	1502-12 (2991523)	1503-13	1504-13	1505-13	1506-13	1507-13
1-1/2	38.1	15-22	1.301	32.66	1.513	38.93							

\* Some items available on quotation basis only

## Two Piece Tube Plugs

For sealing leaky tubes in condensers or heat exchangers.

The two piece design has more sealing area and reduces the risk of damaging the tube sheet.



*Note: The Airetool One Revolution Tube Cutter is recommended to puncture the tube to ensure that pressure cannot build up in the tube to cause the plug to loosen or blow out. See page 58 for detailed information on the RCM Series Tube Cutters. Minimum order quantity 25 pieces.*

Tube Size					Brass Ring and Pin Set		Steel Ring and Pin Set	
O.D.		Gauge	Tube I.D.		Part Number	Order Number	Part Number	Order Number
in.	mm		in.	mm				
5/8	15.8	13	0.435	11.05	TP -6213-B	5523572	TP -6213-S	55233581
5/8	15.8	14	0.459	11.66	TP -6214-B	5522479	TP -6214-S	5520903
5/8	15.8	15	0.481	12.22	TP -6215-B	5523573	TP -6215-S	55233582
5/8	15.8	16	0.495	12.57	TP -6216-B	5520352	TP -6216-S	5519819
5/8	15.8	17	0.509	12.93	TP -6217-B	5523588	TP -6217-S	5523591
5/8	15.8	18	0.527	13.39	TP -6218-B	5519514	TP -6218-S	5520261
5/8	15.8	19	0.541	13.80	TP -6219-B	5520413	TP -6219-S	5523144
5/8	15.8	20	0.555	14.10	TP -6219-B	5520413	TP -6219-S	5523144
5/8	15.8	21	0.561	14.25	TP -6221-B	5520869	TP -6221-S	5523964
5/8	15.8	22	0.569	14.45	TP -6221-B	5520869	TP -6221-S	5523964
3/4	19.0	12	0.532	13.51	TP -6218-B	5519514	TP -6218-S	5520261
3/4	19.0	13	0.650	14.22	TP -6221-B	5520869	TP -6221-S	5523964
3/4	19.0	14	0.584	14.83	TP -7514-B	5519705	TP -7514-S	5520302
3/4	19.0	15	0.606	15.39	TP -7515-B	5520952	TP -7515-S	5520924
3/4	19.0	16	0.620	15.75	TP -7516-B	5519878	TP -7516-S	5519081
3/4	19.0	17	0.634	16.10	TP -7517-B	5520953	TP -7517-S	5521880
3/4	19.0	18	0.652	16.56	TP -7518-B	5519494	TP -7518-S	5519966
3/4	19.0	19	0.666	16.92	TP -7519-B	5518419	TP -7519-S	5523965
3/4	19.0	20	0.680	17.26	TP -7519-B	5518419	TP -7519-S	5523965
3/4	19.0	21	0.686	17.42	TP -7521-B	5519600	TP -7521-S	5523583
3/4	19.0	22	0.694	17.63	TP -7521-B	5519600	TP -7521-S	5523583
7/8	22.2	12	0.657	16.69	TP -7518-B	5519494	TP -7518-S	5519966

Tube Size					Brass Ring and Pin Set		Steel Ring and Pin Set	
O.D.		Gauge	Tube I.D.		Part Number	Order Number	Part Number	Order Number
in.	mm		in.	mm				
7/8	22.2	13	0.685	17.40	TP -7521-B	5519600	TP -7521-S	5523583
7/8	22.2	14	0.709	18.00	TP -8714-B	5522184	TP -8714-S	5521654
7/8	22.2	15	0.731	18.57	TP -8715-B	5523574	TP -8715-S	5523100
7/8	22.2	16	0.754	18.92	TP -8716-B	5522352	TP -8716-S	5522478
7/8	22.2	17	0.759	19.28	TP -8717-B	5523575	TP -8717-S	5522433
7/8	22.2	18	0.777	19.74	TP -8718-B	5520920	TP -8718-S	5519977
7/8	22.2	19	0.791	20.10	TP -8719-B	5523036	TP -8719-S	5523584
7/8	22.2	20	0.805	20.45	TP -8719-B	5523036	TP -8719-S	5523584
7/8	22.2	21	0.811	20.60	TP -8721-B	5523576	TP -8721-S	5520263
7/8	22.2	22	0.819	20.80	TP -8721-B	5523576	TP -8721-S	5520263
1	25.4	12	0.782	19.86	TP -8718-B	5520920	TP -8718-S	5519977
1	25.4	13	0.810	20.57	TP -8721-B	5523576	TP -8721-S	5520263
1	25.4	14	0.834	21.18	TP -1014-B	5521719	TP -1014-S	5520706
1	25.4	15	0.856	21.74	TP -1015-B	5523577	TP -1015-S	5523585
1	25.4	16	0.870	22.10	TP -1016-B	5519515	TP -1016-S	5522890
1	25.4	17	0.884	22.45	TP -1017-B	5522333	TP -1017-S	5523586
1	25.4	18	0.902	22.91	TP -1018-B	5519680	TP -1018-S	5520262
1	25.4	19	0.916	23.27	TP -1019-B	5520903	TP -1019-S	5523587
1	25.4	20	0.930	23.62	TP -1019-B	5520930	TP -1019-S	5523587
1	25.4	21	0.936	23.77	TP -1021-B	5523963	TP -1021-S	5520264
1	25.4	22	0.944	23.98	TP -1021-B	5523963	TP -1021-S	5520264

\*Some items available on quotation basis only

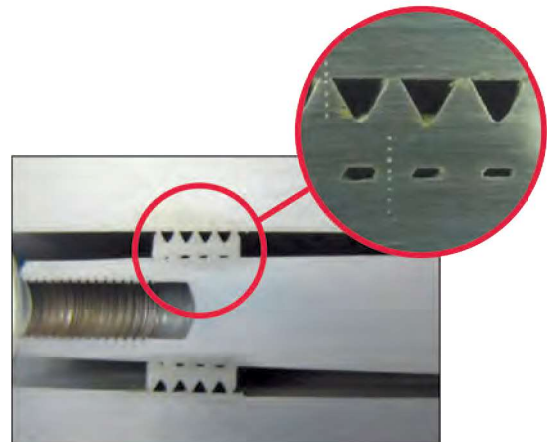
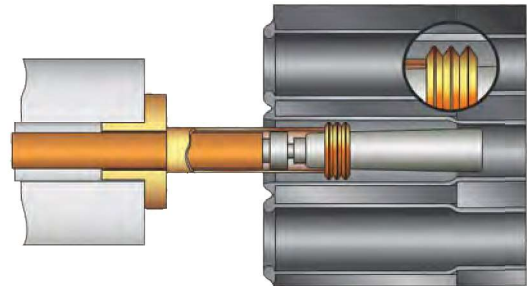


## Pop-A-Plug® CPI/Perma Heat Exchanger & Condenser Tube Plugging System

### Fast, Safe and Reliable Way to Seal Leaking Heat Exchangers & Condensers

Pop-A-Plug® CPI/Perma tube plugs are resistant to thermal cycling and are able to provide a seal that is helium leak tight. Pop-A-Plug® CPI/Perma tube plug installs using a controlled force. This protects against damage to tubesheet ligaments and adjacent tubesheet joints, extending the life of your heat exchanger and reducing total operating cost.

- **Fast** - Simple hydraulic installation significantly reduces turnaround/down time.
- **Safe** - Pressure rated to 1,000 PsiG (69 BarG).
- **Reliable** - Provides helium leak tight seal to  $1 \times 10^{-6}$  cc/sec.
- Lowest life cycle cost compared to alternative plugging methods.
- Permanent solution, engineered for optimal performance throughout the life cycle of the heat exchanger.
- Unique breakaway controls installation force for consistent repeatable results.
- Eliminates need for welding or explosives.
- Standard sizes: 0.472" - 2.067" (11.99mm - 52.50mm), larger sizes available upon request.
- Available in: Brass, Carbon Steel, 316 Stainless Steel, 304 Stainless Steel, 4142 Alloy, 70/30 CU/NI, 90/10 CU/NI, Monel, Titanium, Duplex 2205, Chromoly Grade 11, Chromoly Grade 22, additional materials available upon request.
- Engineered solution - Fast installation without ligament or roll joint damage.
- Designed to be a Through-The-Tube plugging solution. Allows the tube plug to be passed through the length of a straight through-tube heat exchanger and installs in the tubesheet without removing the bundle or far end cover.
- 24/7 Emergency manufacturing service available.
- Patented internal & external serrated ring.
- Compliant with several QA Systems, including; ANSI N45.2, 10 CFR 50 App. B, and 10 CFR 21.



*Multiple points of contact with tube/tubesheet*

**CPI/Perma Plug - Sizing Chart**

Part Number	Tube I.D. Range (inches(mm))	Pin Length (inches(mm))	Brush Kit (hard alloys)	Brush Kit (soft alloys)	Positioner	Pull Rod Assembly	Channel Head Pull Rod Assembly
V-471-Q	0.472 - 0.515 (11.99 - 13.08)	1.630 (41.40)	BSH-471-HT	BSH-471	P-471	PA-471	CPA-471-YY
V-491-Q	0.492 - 0.540 (12.50 - 13.72)	1.670 (42.42)	BSH-491-HT	BSH-491	P-491	PA-491	CPA-491-YY
V-512-Q	0.513 - 0.562 (13.03 - 14.27)	1.590 (40.39)	BSH-512-HT	BSH-512	P-512	PA-512	CPA-512-YY
V-524-Q	0.525 - 0.585 (13.34 - 14.86)	1.280 (32.51)	BSH-524-HT	BSH-524	P-524	PA-524	CPA-524-YY
V-555-Q	0.556 - 0.616 (14.12 - 15.65)	1.400 (35.56)	BSH-555-HT	BSH-555	P-555	PA-555	CPA-555-YY
V-584-Q	0.585 - 0.649 (14.86 - 16.48)	1.320 (33.53)	BSH-584-HT	BSH-584	P-584	PA-584	CPA-584-YY
V-621-Q	0.622 - 0.689 (15.80 - 17.50)	1.570 (39.88)	BSH-621-HT	BSH-621	P-621	PA-621	CPA-621-YY
V-649-Q	0.650 - 0.713 (16.51 - 18.11)	1.320 (33.53)	BSH-649-HT	BSH-649	P-649	PA-649	CPA-649-YY
V-670-Q	0.671 - 0.740 (17.04 - 18.80)	1.660 (42.16)	BSH-670-HT	BSH-670	P-670	PA-670	CPA-670-YY
V-712-Q	0.713 - 0.777 (18.11 - 19.74)	1.320 (33.53)	BSH-712-HT	BSH-712	P-712	PA-712	CPA-712-YY
V-735-Q	0.736 - 0.810 (18.69 - 20.57)	1.680 (42.67)	BSH-735-HT	BSH-735	P-735	PA-735	CPA-735-YY
V-774-Q	0.775 - 0.838 (19.69 - 21.29)	1.320 (33.53)	BSH-774-HT	BSH-774	P-774	PA-774	CPA-774-YY
V-804-Q	0.805 - 0.890 (20.45 - 22.61)	1.700 (43.18)	BSH-804-HT	BSH-804	P-804	PA-804	CPA-804-YY
V-837-Q	0.838 - 0.902 (21.29 - 22.91)	1.320 (33.53)	BSH-837-HT	BSH-837	P-837	PA-837	CPA-837-YY
V-853-Q	0.854 - 0.949 (21.69 - 24.10)	1.720 (43.69)	BSH-853-HT	BSH-853	P-853	PA-853	CPA-853-YY
V-899-Q	0.900 - 0.963 (22.86 - 24.46)	1.320 (33.53)	BSH-899-HT	BSH-899	P-899	PA-899	CPA-899-YY
V-919-Q	0.920 - 1.019 (23.37 - 25.88)	1.760 (44.70)	BSH-919-HT	BSH-919	P-919	PA-919	CPA-919-YY
V-962-Q	0.963 - 1.027 (24.46 - 26.09)	1.320 (33.53)	BSH-962-HT	BSH-962	P-962	PA-962	CPA-962-YY
V-979-Q	0.980 - 1.079 (24.89 - 27.41)	1.820 (46.23)	BSH-979-HT	BSH-979	P-979	PA-979	CPA-979-YY
V-1024-Q	1.025 - 1.088 (26.04 - 27.64)	1.320 (33.53)	BSH-1024-NY	BSH-1024-NY	P-1024	PA-1024	CPA-1024-YY
V-1054-Q	1.055 - 1.154 (26.80 - 29.31)	1.900 (48.26)	BSH-1054-NY	BSH-1054-NY	P-1054	PA-1054	CPA-1054-YY
V-1087-Q	1.088 - 1.152 (27.64 - 29.26)	1.320 (33.53)	BSH-1087-NY	BSH-1087-NY	P-1087	PA-1087	CPA-1087-YY
V-1103-Q	1.104 - 1.203 (28.04 - 30.56)	1.900 (48.26)	BSH-1103-NY	BSH-1103-NY	P-1103	PA-1103	CPA-1103-YY
V-1149-Q	1.150 - 1.213 (29.21 - 30.81)	1.320 (33.53)	BSH-1149-NY	BSH-1149-NY	P-1149	PA-1149	CPA-1149-YY
V-1171-Q	1.172 - 1.270 (29.77 - 32.26)	2.000 (50.80)	BSH-1171-NY	BSH-1171-NY	P-1171	PA-1171	CPA-1171-YY
V-1212-Q	1.213 - 1.336 (30.81 - 33.93)	2.000 (50.80)	BSH-1212-NY	BSH-1212-NY	P-1212	PA-1212	CPA-1212-YY
V-1334-Q	1.335 - 1.458 (33.91-37.03)	2.000 (50.80)	BSH-1334-NY	BSH-1334-NY	P-1334	PA-1334L	CPA-1334L-YY
V-1456-Q	1.457 - 1.579 (37.01-40.11)	2.000 (50.80)	BSH-1456-NY	BSH-1456-NY	P-1456	PA-1456L	CPA-1456L-YY
V-1578-Q	1.579 - 1.701 (40.11-43.21)	2.000 (50.80)	BSH-1578-NY	BSH-1578-NY	P-1578	PA-1578L	CPA-1578L-YY
V-1700-Q	1.701 - 1.823 (43.21-46.30)	2.000 (50.80)	BSHV-1700-NY	BSHV-1700-NY	P-1700	PA-1700L	CPA-1700L-YY
V-1822-Q	1.823 - 1.945 (46.30-49.40)	2.000 (50.80)	BSH-1822-NY	BSH-1822-NY	P-1822	PA-1822L	CPA-1822L-YY
V-1944-Q	1.945 - 2.067 (49.40-52.50)	2.000 (50.80)	BSH-1944-NY	BSH-1944-NY	P-1944	PA-1944L	CPA-1944L-YY

Specifications subject to change without notice. See DC1224 for more information.

**Ordering Information**

Please supply the following information when ordering:

- Tube O.D. and wall thickness; or measured tube I.D.
- Tube material and/or tubesheet material.
- Maximum pressure and temperature.
- The type of tube-to-tubesheet joint (rolled, welded, etc.).
- Each kit includes a Go/ No-Go Gage for ensuring proper plug size. (Brush kits and installation equipment sold separately.)

**Standard Materials**

- The suffix Q in the Part Number column is a plug material designator.
- Replace Q with one of the following: (B) for Brass, (C) for Carbon Steel, (S) for 316 Stainless Steel, (E) for 304 Stainless Steel, (A) for 4142 Alloy, (H) for 70/30 CU/NI, (N) for 90/10 CU/NI, (M) for Monel, (D) for Duplex 2205, (F11) for Chromoly Grade 11, (F22) for Chromoly Grade 22.
- (T) Titanium plugs do not have the same tube I.D. range. Please consult factory for ranges.
- The suffix (YY) in the Pull Rod Assembly column signifies the length, in feet, of the channel head extension. These parts are available in 1, 2, 3, 4, and 6 foot lengths (304.8, 609.6, 914.4, 1219.2 & 1828.8 mm). Add -01, -02, -03, etc. for the respective channel head extension length required.



## NEW! G-160 Tube Testing Tool

### Locate Pinhole Leaks with a Safe & Reliable Leak Detector

Early detection of leaking tubes in heat exchangers, boilers and condensers is essential to avoiding costly downtime. G-160 Tube Testing Tools from EST Group rapidly detect leaks while providing a safer environment for plant personnel. Innovative patentpending gripper design provides increased operator safety. Operates with compressed air.

#### Features:

- Patent-pending gripper design requires less operator force.
- Interchangeable Seal & Washer Sets are size specific per tube I.D.
- Ergonomic design with push button activated air injection valve.
- Safely test up to ten tubes per minute with less operator fatigue.
- Durable corrosion resistant powder coated finish.
- Lightweight aluminum construction (1.9lbs. / 0.9 kg. ea.).
- Fully protected gauges - analog & digital available.
- Neoprene seals.



#### Kit Tube Size Range:

- 0.49" - 1.11" (12.4mm - 28.2mm)  
*with Optional Support Tube Assemblies:*
  - 0.28" - 1.81" (7.1mm - 46.0mm).



*Patent-pending gripper design*

#### Kit Includes:

- Injection & Plugging Tools with analog gauges.
- Support Tube Assemblies (GSA-1611 & GSA-1612).
- Wrench & Seal Sizing Gauge.
- Impact-resistant Case.



*Analog and optional Digital gauges*

<b>GSA-1600 Kit</b>	<b>GSA-1611 Support Tube Assembly</b>	
	Functional Range	0.49" - 0.86" (12.4mm - 21.8mm)
	Available Seal Sizes <i>sold separately, see chart below</i>	GSA-0050-N, GSA-0053-N, GSA-0056-N, GSA-0060-N, GSA-0062-N, GSA-0065-N, GSA-0068-N, GSA-0072-N, GSA-0075-N, GSA-0078-N, GSA-0081-N, GSA-0083-N
	<b>GSA-1612 Support Tube &amp; Gripper Assembly</b>	
	Functional Range	0.86" - 1.11" (21.8mm - 28.2mm)
	Gripper Assembly	GSA-1642
Available Seal Sizes <i>sold separately, see chart below</i>	GSA-0087-N, GSA-0090-N, GSA-0093-N, GSA-0097-N, GSA-0100-N, GSA-0103-N, GSA-0106-N, GSA-0108-N	

*Standard kit (GSA-1600) ships with analog gauges - for digital gauges, please order (GSA-1600-D).*

<b>Optional Support Tube &amp; Gripper Assemblies</b>	<b>GSA-1610 Support Tube Assembly</b>	
	Functional Range	0.28" - 0.48" (7.1mm - 12.2mm)
	Available Seal Sizes <i>sold separately, see chart below</i>	GSA-0028-N, GSA-0030-N, GSA-0033-N, GSA-0037-N, GSA-0040-N, GSA-0043-N, GSA-0047-N

<b>GSA-1613 Support Tube &amp; Gripper Assembly</b>	
Functional Range	1.11" - 1.50" (28.2mm - 38.1mm)
Gripper Assembly	GSA-1643
Available Seal Sizes <i>sold separately, see chart below</i>	GSA-0110-N, GSA-0112-N, GSA-0115-N, GSA-0118-N, GSA-0122-N, GSA-0126-NS, GSA-0131-NS, GSA-0134-NS, GSA-0137-NS, GSA-0140-NS, GSA-0143-NS, GSA-0147-NS

<b>GSA-1614 Support Tube &amp; Gripper Assembly</b>	
Functional Range	1.49" - 1.81" (37.7mm - 46.0mm)
Gripper Assembly	GSA-1644
Available Seal Sizes <i>sold separately, see chart below</i>	GSA-0150-NS, GSA-0153-NS, GSA-0156-NS, GSA-0158-NS, GSA-0162-NS, GSA-0165-NS, GSA-0168-NS, GSA-0173-NS, GSA-0178-NS

### Extended Length Support Tube Assemblies available

*1ft - 4ft lengths available for easier testing when a channel head or water box is present, contact EST Group Customer Service for details.*

### Neoprene Seal & Washer Set Sizing Chart *(required for above configurations - sold separately)*

Tube OD	1/2"	5/8"	3/4"	7/8"	1"	1 1/8"	1 1/4"	1 3/8"	1-1/2"	1-5/8"	1-3/4"	2"
BWG												
8 - 9	-	0030	0043	0056	0068	0081	0093	0106	0118	0131	0143	0168
10 - 11	-	0037	0047	0062	0072	0087	0097	0112	0122	0137	0147	0173
12 - 13	0028	0040	0053	0065	0078	0090	0103	0115	0128	0140	0153	0178
14 - 15	0033	0047	0056	0072	0083	0097	0110	0122	0134	0147	0158	-
16 - 17	0037	0050	0062	0075	0087	0100	0112	0126	0137	0150	0162	-
18 - 19	0040	0053	0065	0078	0090	0103	0115	0128	0140	0153	0165	-
20 - 24	0043	0056	0068	0081	0093	0106	0118	0131	0143	0156	0168	-

Contact **EGI Customer Service** for seal sizing and part numbers for applications in SWG, metric, or other tube sizes.

Alternate seal materials including Viton® available.

Viton® is a registered trademark of DuPont Dow Elastomers

# Tube Installation Accessories

## Joint Testers



AJT-6500 JOINT TESTER

## Joint Testing Tools

The Airetool “AJT” Joint Tester is designed to test for leaks between the tube & the tube sheet on both rolled and welded joints. Easy to use push buttons activate, test and reset the Joint Tester for quick verification. Joint testers come complete with one manifold assembly and one seal for the tube size ordered. Specify tube O.D. and gauge when ordering.

**Tube Range: 0.625 -1.250” O.D. (15.87 - 31.75mm)**

**Air Requirements: 40 -125 PSI (2.7 - 8.5 bar)**

- Standard method for testing tube joints providing reliable results.
- Fast acting, easy to use tester saves time and reduces labor costs.
- Seals are sized specifically for the tube I.D. creating a positive seal.

Tube Size		AJT-6500 Joint Tester Assembly	AJT-6500 Joint Tester Replacement Parts		
Tube	BWG	Assembly Number	Seal Description Number (1 Required)	Manifold W/ Square O-Ring	Square O-Ring
5/8"	8-9 10-11 12-13 14-15 16-17	AJT 6500 5/8SP (5525585)	ATT 300 N (2996173) ATT 350 N (2900798) ATT 370 N (2988090) ATT 450 N (2984360) ATT 470 N (2900799)	AJT 6500 5/8SP (2900823)	AJT 16 5/8 (2984663)
	18-19 20-24		ATT 490 N (2984361) ATT 530 N (2984362)		
3/4"	8-9 10-11	AJT 6500 3/4SP (5525586)	ATT 430 N (2995248) ATT 450 N (2984360)	AJT 6500 3/4SP (2900824)	AJT 16 3/4 (2984664)
	12-13 14-15 16-17 18-19 20-24		AJT 6500 3/4 (5525566) ATT 490 N (2984361) ATT 530 N (2984362) ATT 570 N (2984363) ATT 610 N (2984364) ATT 650 N (2984365)		
7/8"	8-9 10-11 12-13 14-15 16-17 18-19 20-24	AJT 6500 7/8 (5525567)	ATT 530 N (2984362) ATT 570 N (2984363) ATT 610 N (2984364) ATT 690 N (2984366) ATT 730 N (2900800) ATT 740 N (2984367) ATT 790 N 405 (2984929)	AJT 6500 7/8 (2984358)	AJT 16 7/8 (2984665)
	1		AJT 6500 1 (5525568PT) ATT 650 N (2984365) ATT 690 N (2984366) ATT 740 N (2984367) ATT 790 N (2984368) AJT 840 N (2984502) AJT 870 N (2900810) AJT 890 N (2984503)		
1-1/8"	8-9 10-11 12-13 14-15 16-17 18-19 20-24	AJT6500 1-1/8 (5525569)	AJT 790 N 405 (2984933) ATT 840 N (2984369) ATT 870 N (2900801) ATT 940 N (2984492) ATT 980 N (2900802) ATT 990 N (2984671) ATT 1040 N (2984672)	AJT 6500 1-1/8 (2984669)	AJT 16 1-1/8 (2984667)
1-1/4"	8-9 10-11 12-13 14-15 16-17 18-19 20-24	AJT 6500 1-1/4 (5525570)	ATT 890 N (2984370) ATT 940 N (2984492) ATT 990 N (2984671) ATT 1080 N (2900803) ATT 1090 N (2984673) ATT 1100 N (2900804) ATT 1140 N (2984674)	AJT 6500 1-1/4 (2984670)	AJT 16 1-1/4 (2984668)

AJT Joint Tester	Ordering Number
AJT 6500 Joint Tester Kit*	5520175PT
AJT 6500 Gun w/o manifold	2900807

\* Kit consists of: Joint Tester, 6 manifolds (5/8" - 1-1/4"), and 1 ea. ATT470 - ATT1140 seals

AJT 6500 Manifold Assemblies	Ordering Number	Tube I.D. Range	
		in.	mm
AJT 6500 5/8SP	2900823	.280 - .480	7.1 - 12.3
AJT 6500 5/8	2984356	.490 - .830	12.4 - 21.2
AJT 6500 3/4SP	2900824	.280 - .480	7.1 - 12.3
AJT 6500 3/4	2984357	.490 - .830	12.4 - 21.2
AJT 6500 7/8	2984358	.490 - .830	12.4 - 21.2
AJT 6500 1	2984359	.490 - 1.230	12.4 - 31.2
AJT 6500 1 1/8	2984669	.840 - 1.230	21.3 - 31.2
AJT 6500 1 1/4	2984670	.840 - 1.230	21.3 - 31.2



SEAL WITH WASHER



SEAL WITH BACKUP WASHER



### Tube Testing Tools

The advanced design of the Airetool “ATT” Tube Testers enable an operator to test the entire length of the tube between the tube sheets for leaks, merely by pressing a button. Air pressure is induced through the gun causing the seals to expand. Easy to read gauges will display and hold pressure if there are no leaks. The tester comes complete with two #ATT-15-312 support tubes, two #ATT-15-405 support tubes and two seals for the tube size specified. Specify tube O.D. and gauge when ordering.

**Tube Range: 0.625 - 1.250” O.D. (15.875 - 31.75mm)**

**Air Requirements: 40 -125 PSI (2.7 - 8.5 bar)**

- Standard method for testing tubes providing reliable results
- Fast acting, easy to use tester saves time and reduces labor costs
- Seals are sized specifically for the tube I D creating a positive seal



ATT-6525 TUBE TESTER

Tube Size		ATT-6525 Tube Tester placement Parts		
Tube in. (mm)	BWG	Tube Seal & Washer (2 required)	Support Tube Seal & Washer (2 required)	Support Tube Assembly*
5/8 (18.5)	8-9	ATT 300 N (2996173)	ATT -500-U (2984659)	ATT-15-125 (2984870)
	10-11	ATT 350 N (2900798)		
	12-13	ATT 370-N (2988090)		
	14-15	ATT 450 N (2984360)		
	16-17	ATT 470 N (2900799)		
	18-19	ATT 490 N (2984361)		
	20-24	ATT 530 N (2984362)		
3/4 (19.0)	8-9	ATT 430 N (2995248)	ATT -900-U (2984660)	ATT-15-312 (2984871)
	10-11	ATT 450 N (2984360)		
	12-13	ATT 490 N (2984361)		
	14-15	ATT 530 N (2984362)		
	16-17	ATT 570 N (2984363)		
	18-19	ATT 610 N (2984364)		
	20-24	ATT 650 N (2984365)		
7/8 (22.2)	8-9	ATT 530 N (2984362)	ATT -1250-U (2987062)	ATT-15-312 (2984871)
	10-11	ATT 570 N (2984363)		
	12-13	ATT 610 N (2984364)		
	14-15	ATT 690 N (2984366)		
	16-17	ATT 730 N (2900800)		
	18-19	ATT 740 N (2984367)		
	20-24	ATT 790 N 405 (2984929)		
1 (25.4)	8-9	ATT 650 N (2984365)	ATT -1500-U (2984661)	ATT-15-312 (2984871)
	10-11	ATT 690 N (2984366)		
	12-13	ATT 740 N (2984367)		
	14-15	ATT 790 N (2984368)		
	16-17	ATT 840 N (2984369)		
	18-19	ATT 870 N (2900801)		
	20-24	ATT 890 N (2984370)		
1-1/8 (28.5)	8-9	ATT 790 N 405 (2984929)	ATT -1500-U (2984661)	ATT-15-312 (2984871)
	10-11	ATT 840 N (2984369)		
	12-13	ATT 870 N (2900801)		
	14-15	ATT 940 N (2984492)		
	16-17	ATT 980 N (2900802)		
	18-19	ATT 990 N (2984671)		
	20-24	ATT 1040 N (2984672)		
1-1/4 (31.7)	8-9	ATT 890 N (2984370)	ATT -1500-U (2984661)	ATT-15-405 (2984872)
	10-11	ATT 940 N (2984492)		
	12-13	ATT 990 N (2984671)		
	14-15	ATT-1080 N (2900803)		
	16-17	ATT 1090 N (2984673)		
	18-19	ATT 1100 N (2900804)		
	20-24	ATT 1140 N (2984674)		

\* Support Tube Assembly consists of: Support Tube, Back-up Washer Set, and Locknut

Tube Tester Kit*	Ordering Number	Tube Sizes	
		in.	mm
ATT 6526 Tube Tester Kit 5/8 7/8		5/8 - 7/8	18.5 - 22.2
ATT 6526 Tube Tester Kit 1 1-1/4		1 - 1-1/4	25.4 - 31.7
ATT 6526 Tube Tester Kit 5/8 1-1/4	5520174PT	5/8 - 1-1/4	18.5 - 31.7
ATT 6525 Gun and Support Tube Kit**	5518407PT	5/8 - 1-1/4	18.5 - 31.7

\* Kits include: Guns, standard length Support Tubes, Seals, Washers, and carrying case for range indicated  
 \*\* Includes: Guns and standard length Support Tubes in carrying case

ATT Tube Tester Guns	Ordering Number
ATT 6525 1 Injection Gun	2984876
ATT 6525 2 Plugging Gun	2984877

Support Tube Assemblies	Ordering Number	Support Tube Length		Tube I.D. Range	
		in.	mm	in.	mm
ATT-15-125	2984870	4	101.6	.280 - .480	7.1 - 12.3
ATT-15-125-12	2902119	12	304.8		
ATT-15-125-24	2903223PT	24	609.6		
ATT-15-312	2984871	4	101.6	.490 - .830	12.4 - 21.2
ATT-15-312-12	2985236	12	304.8		
ATT-15-312-24	2985238	24	609.6		
ATT-15-405	2984872	4	101.6		
ATT-15-405-12	2902120	12	304.8	.840 - 1.230	21.3 - 31.2
ATT-15-405-24	2985242	24	609.6		

# HydroStatic Test Pump

Heat Exchanger Accessories

## Hydrostatic Test Pumps

Hydrostatic Test pumps are a staple in the petro chemical, pipe welding and testing industries. Having been in these industries for more than 25 years, we have perfected the power, pressure, weight and speed ratios of hydrostatic test pumps. Our pumps are USA made here in Houston, Texas. Safety is our number one concern. Only the highest quality components are used in the assembly process of our pumps. We are the originators for the Aluminum box design and two-wheeled cart design. These unique features were a product of listening to our customers over a period of years. The wheeled cart design allows you to maneuver in close quarters and traverse long distances with ease. The box design allows you to stack our pumps where and when applicable. Especially if you have a large rental fleet. Our pumps deliver the reliability and dependability that you expect and deserve when pressure testing pipe and vessels. Every pump is tested prior to departing the factory to ensure it meets our rigid quality control specifications.

### EGI HTP-10K Hydrostatic Test Pump

The HTP-10K was designed with ease and mobility in mind. Bringing up to 10,000 PSI to the job in a wheeled mobile configuration. The large 8" swivel casters allow the operator to bring the pump to the testing area and not have to worry about the terrain or flat tires.

- Max. Pressure . . . . .9700 PSI
- Volume @ 100CPM . . . . .1.00 GPM
- Pressure Ratio . . . . .97 to 1
- Max. CFM Req'd . . . . .56 CFM
- Max. Air Req'd . . . . .100 PSI



### P-Series Hand Pump

A self-contained and portable hand pump for testing tubes, pipes, and pressure vessels. It is integrated into a 5 gallon attached reservoir which is easily refilled. The pump is hand operated, which eliminates the need for compressed air. With the turn of a knob, the pressure output can be adjusted to either 1,000 PsiG (68.9 BarG), 2,000 PsiG (137.9 BarG), or 3,000 PsiG (206.8 BarG) for the appropriate application. There is also an optional silicone-filled gauge for all weather use and minimal moving parts for durability and longevity. High pressure bleed valve and hose with swivel fitting included.



Model Number	Maximum Outlet Pressure (PsiG(BarG))	Discharge Volume per Stroke (cu in(ml))
PSR-HP-3000	3000 (206.8)	0.73 (11.96)

Length (inches(mm))	Width (inches(mm))	Height (inches(mm))	Approximate Shipping Weight (lbs(kg))
24 (609.6)	7 (177.8)	27 (685.8)	25 (11.34)