Pro Lite Air Cap and Fluid Tip Selection Guide

HV30

HVLP

#HV30 Air Cap

Type :
High Volume Low Pressure.
External Mix

Used on Gun Type: GTI Pro Lite Suction, Gravity & Pressure Hand Guns, AG361 & AG362 Automatic guns

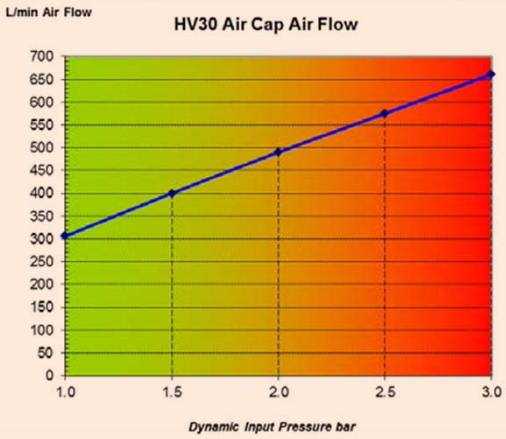
Used over Fluid Tips:	GTI Pro Lite Suction Fluid Needle	GTI Pro Lite Gravity Fluid Needle	GTI Pro Lite Pressure Fluid Needle
PRO-205-085*	Not Available	Not Available	PRO-320-085-10
PRO-205-10*	Not Available	Not Available	PRO-320-085-10
PRO-205-12*	Not Available	Not Available	PRO-320-12-14
PRO-205-14*	Not Available	Not Available	PRO-320-12-14
PRO-205-16*	Not Available	Not Available	PRO-320-16-18
PRO-205-18*	Not Available	Not Available	PRO-320-16-18
PRO-205-20*	Not Available	Not Available	PRO-320-20-22
PRO-205-22*	Not Available	Not Available	PRO-320-20-22
PRO-200-12	Not Available	PRO-301	Not Available
PRO-200-13	Not Available	PRO-301	Not Available
PRO-200-14	Not Available	PRO-301	Not Available
PRO-200-16	PRO-325	PRO-303	Not Available
PRO-200-18	PRO-325	PRO-303	Not Available
PRO-200-20	PRO-325	PRO-303	Not Available

For AG-360 series automatic spray gun needles see page 62

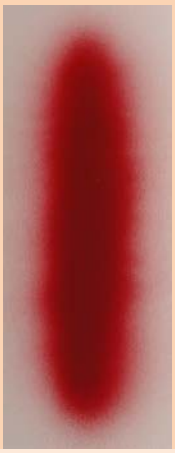
HVLP

Air Consumption Graph

(Measured using GTI Lite G with 1.3mm Fluid Tip)



Spray Pattern



Pattern Shape:
Long Ellipse

Design Target Distance:
200mm (8")

Approximate Fan Size:

315mm long x 70mm wide @ 200 ml/min 25 sec Din 4

Typical Applications:

Wood, General Industrial, Metal, Plastic, Aerospace, Leather, Military, Decorative, Construction, Light Marine

Typical Fluid Flow Specification:

Small to Medium scale application Air Cap.
160 – 200 ml/min
Viscosity Range Sprayed:
15 to 25 sec Din 4
Fluid Supply: Suction, Gravity & Pressure Feed

Original design specification: Solventbased & Waterbased coatings. Long Elliptical pattern, Small to medium production. 2bar dynamic inlet Pressure

Materials of Construction Electroless Nickel Plated Brass Air Cap and Aluminium Retaining Ring

Part Number: PRO-102-HV30-K (Cap & Retaining Ring).

Notes:
*Internal profile originally designed for Pressure Feed Applications

R40

TRANS-TECH

TRANS-TECH

#TE40 Air Cap:

Type:
Trans-Tech Compliant External Mix

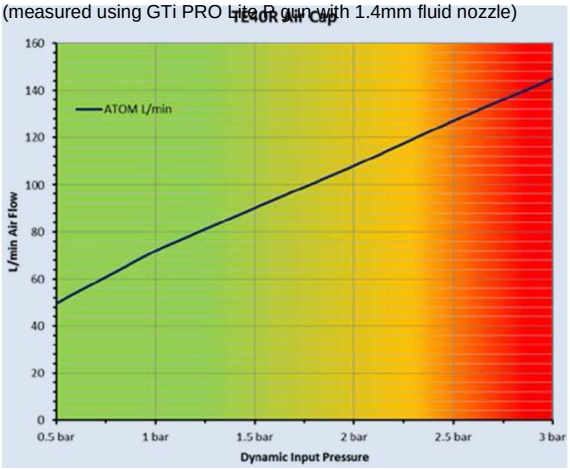
Used on Gun Type: GTI Pro Lite Pressure Hand Gun, AG361 & AG362 Automatic guns

Used over Fluid Tips:	GTI Pro Lite Pressure Fluid Needle
PRO-205-085*	PRO-320-085-10
PRO-205-10*	PRO-320-085-10
PRO-205N-10*	PRO-320N-085-10
PRO-205-12*	PRO-320-12-14
PRO-205-14*	PRO-320-12-14
PRO-205N-14*	PRO-320N-12-14
PRO-205-16*	PRO-320-16-18
PRO-205-18*	PRO-320-16-18
PRO-205N-18*	PRO-320N-15-18
PRO-205-20*	PRO-320-20-22
PRO-205-22*	PRO-320-20-22
PRO-205N-22*	PRO-320N-20-22

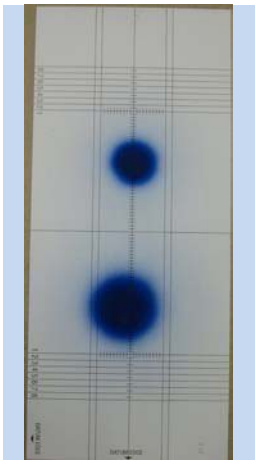
For AG-360 series automatic spray gun needles see page 62

Air Consumption Graph

(measured using GTi PRO Lite R gun with 1.4mm fluid nozzle)



Spray Pattern



Pattern Shape:
Round

Design Target Distance:
200mm (8”)

Approximate Max Fan Size:
70mm dia @ 240 ml/min using 30 sec Din 4 @ 200mm (8”) target distance

95mm dia @ 240 ml/min using 30 sec Din 4 @ 300mm (10”) target distance

Typical Applications:

Wood, General Industrial, Metal, Ceramic, Vitreous Enamel, Lubricants, Adhesive, Aerospace, Release Agent,

Typical Fluid Flow Specification:

Small scale application Air Cap.
100 – 250 ml/min
Viscosity Range Sprayed:
15 to 45 sec Din 4
Fluid Supply: Pressure Feed

Original design specification: Solventbased anti-corrosion coatings. Small to medium production. 2 to 4 bar dynamic inlet Pressure

Materials of Construction Electroless Nickel Plated Brass Air Cap
Anodized Aluminium Retaining Ring

Part Number: PRO-102-R40 Air Cap and retaining ring

Notes:

TE10

TRANS-TECH

#TE10 Air Cap:

Type:
Trans-Tech Compliant External Mix

Used on Gun Type: GTI Pro Lite Suction, Gravity & Pressure Hand Guns, AG361 and AG362 Automatic guns

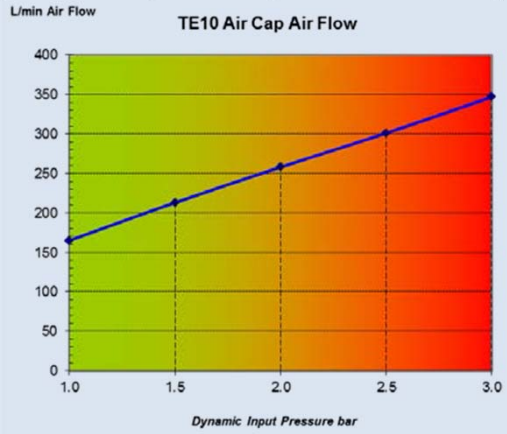
Used over Fluid Tips:	GTI Pro Lite Suction Fluid Needle	GTI Pro Lite Gravity Fluid Needle	GTI Pro Lite Pressure Fluid Needle
PRO-205-085*	Not Available	Not Available	PRO-320-085-10
PRO-205-10*	Not Available	Not Available	PRO-320-085-10
PRO-205-12*	Not Available	Not Available	PRO-320-12-14
PRO-205-14*	Not Available	Not Available	PRO-320-12-14
PRO-205-16*	Not Available	Not Available	PRO-320-16-18
PRO-205-18*	Not Available	Not Available	PRO-320-16-18
PRO-205-20*	Not Available	Not Available	PRO-320-20-22
PRO-205-22*	Not Available	Not Available	PRO-320-20-22
PRO-200-12	Not Available	PRO-301	Not Available
PRO-200-13	Not Available	PRO-301	Not Available
PRO-200-14	Not Available	PRO-301	Not Available
PRO-200-16	PRO-325	PRO-303	Not Available
PRO-200-18	PRO-325	PRO-303	Not Available
PRO-200-20	PRO-325	PRO-303	Not Available

For AG-360 series automatic spray gun needles see page 62

TRANS-TECH

Air Consumption Graph

(measured using GTI Lite G gun with 1.4mm fluid Tip)



Spray Pattern

Pattern Shape:
Long Ellipse

Design Target Distance:
200mm (8")

Approximate Fan Size:

300mm long x 70mm wide @ 200cc/min 25sec Din 4

Typical Applications:

Wood, General Industrial, Metal, Plastic, Aerospace, Leather, Military, Decorative, Construction, Light Marine

Typical Fluid Flow Specification:

Small to Medium scale application Air Cap.
150 – 200 ml/min
Viscosity Range Sprayed:
15 to 30 sec Din 4
Fluid Supply: Suction, Gravity & Pressure Feed

Original design specification: Solventbased & Waterbased coatings. Long Elliptical pattern, Small to medium production 2bar dynamic inlet Pressure

Materials of Construction Electroless Nickel Plated Brass Air Cap and Retaining Ring

Part Number: PRO-100-TE10-K (Cap & Retaining Ring).

Notes: *Internal profile designed for Pressure Feed Applications

TE20

TRANS-TECH

#TE20 Air Cap:

Type:
Trans-Tech Compliant External Mix

Used on Gun Type: GTI Pro Lite Suction, Gravity & Pressure Hand Guns, AG361 & AG362 Automatic Guns

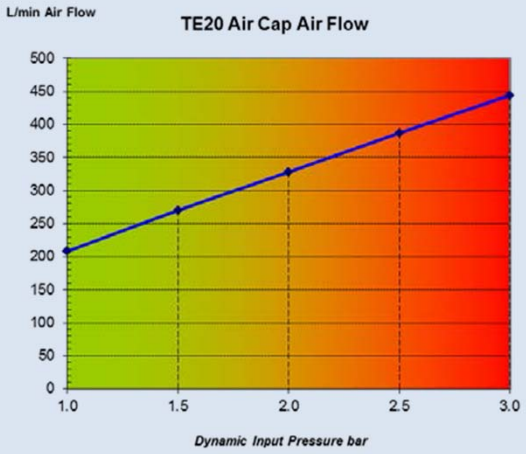
Used over Fluid Tips:	GTI Pro Lite Suction Fluid Needle	GTI Pro Lite Gravity Fluid Needle	GTI Pro Lite Pressure Fluid Needle
PRO-205-085*	Not Available	Not Available	PRO-320-085-10
PRO-205-10*	Not Available	Not Available	PRO-320-085-10
PRO-205-12*	Not Available	Not Available	PRO-320-12-14
PRO-205-14*	Not Available	Not Available	PRO-320-12-14
PRO-205-16*	Not Available	Not Available	PRO-320-16-18
PRO-205-18*	Not Available	Not Available	PRO-320-16-18
PRO-205-20*	Not Available	Not Available	PRO-320-20-22
PRO-205-22*	Not Available	Not Available	PRO-320-20-22
PRO-200-12	Not Available	PRO-301	Not Available
PRO-200-13	Not Available	PRO-301	Not Available
PRO-200-14	Not Available	PRO-301	Not Available
PRO-200-16	PRO-325	PRO-303	Not Available
PRO-200-18	PRO-325	PRO-303	Not Available
PRO-200-20	PRO-325	PRO-303	Not Available

For AG-360 series automatic spray gun needles see page 62

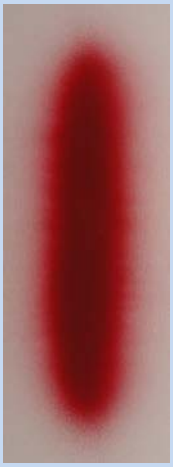
TRANS-TECH

Air Consumption Graph

(measured using GTI Lite G gun with 1.3mm fluid Tip)



Spray Pattern



Pattern Shape:
Long Ellipse

Design Target Distance:
200mm (8")

Approximate Fan Size:
290mm long x 60mm wide
@ 200 ml/min 25 sec Din 4

Typical Applications:

Wood, General Industrial, Metal, Plastic, Aerospace, Leather, Military, Decorative, Construction, Light Marine

Typical Fluid Flow Specification:

Small to Medium scale application Air Cap.
150 – 200 ml/min

Viscosity Range Sprayed:
15 to 30 sec Din 4

Fluid Supply: Suction, Gravity & Pressure Feed

Original design specification: Solventbased & Waterbased coatings. Long Elliptical pattern, Small to medium production 2bar dynamic inlet Pressure

Materials of Construction Electroless Nickel Plated Brass Air Cap and Retaining Ring

Part Number: PRO-100-TE20-K (Cap & Retaining Ring).

Notes:
*Internal profile originally designed for Pressure Feed Applications

TE30

TRANS-TECH

#TE30 Air Cap:

Type:
Trans-Tech Compliant External Mix

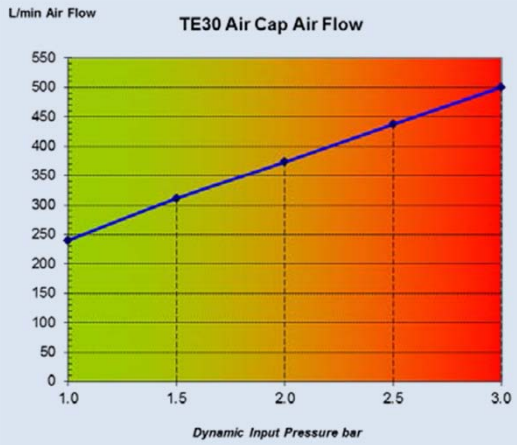
Used on Gun Type: GTI Pro Lite Pressure Hand Guns
AG361 & AG362 Automatic guns

Used over Fluid Tips:	GTI Pro Lite Pressure Fluid Needle
PRO-205-085*	PRO-320-085-10
PRO-205-10*	PRO-320-085-10
PRO-205-12*	PRO-320-12-14
PRO-205-14*	PRO-320-12-14
PRO-205-16*	PRO-320-16-18
PRO-205-18*	PRO-320-16-18
PRO-205-20*	PRO-320-20-22
PRO-205-22*	PRO-320-20-22

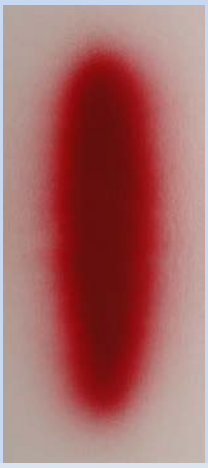
For AG-360 series automatic spray gun needles see page 62

Air Consumption Graph

(measured using GTI Lite P gun with 1.4mm fluid Tip)



Spray Pattern



Pattern Shape:
Short Ellipse

Design Target Distance:
200mm (8")

Approximate Fan Size:
300mm long x 80mm wide @ 280 ml/min 20 sec Din 4

Typical Applications:

Wood, General Industrial, Metal, Ceramic, Vitreous Enamel, Lubricants, Adhesive, Plastic, Aerospace, Military, Decorative, Construction, Light Marine, Release Agent

Typical Fluid Flow Specification:

Small to Medium scale application Air Cap.
200 – 300 ml/min

Viscosity Range Sprayed:
15 to 30 sec Din 4

Fluid Supply: Pressure Feed

Original design specification:	Solventbased & Waterbased coatings. Medium Elliptical pattern, Small to medium production 2-3 bar dynamic inlet Pressure
Materials of Construction	Electroless Nickel Plated Brass Air Cap and Retaining Ring

Part Number: PRO-100-TE30-K (Cap & Retaining Ring).

Notes:
*Internal profile originally designed for Pressure Feed Applications

TE40

TRANS-TECH

#TE40 Air Cap:

Type:
Trans-Tech Compliant External Mix

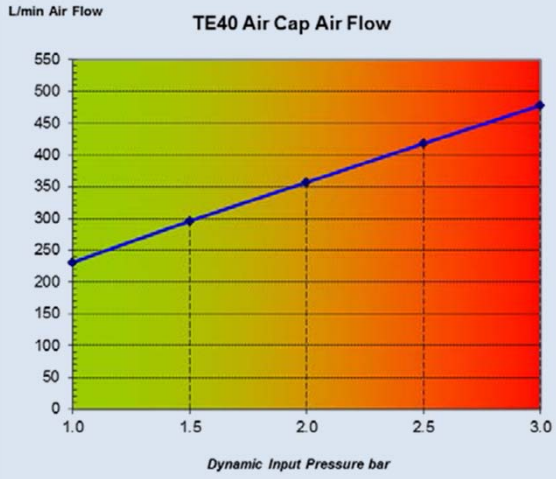
Used on Gun Type: GTI Pro Lite Pressure Hand Guns
AG361 & AG362 Automatic guns

Used over Fluid Tips:	GTI Pro Lite Pressure Fluid Needle
PRO-205-085*	PRO-320-085-10
PRO-205-10*	PRO-320-085-10
PRO-205-12*	PRO-320-12-14
PRO-205-14*	PRO-320-12-14
PRO-205-16*	PRO-320-16-18
PRO-205-18*	PRO-320-16-18
PRO-205-20*	PRO-320-20-22
PRO-205-22*	PRO-320-20-22

For AG-360 series automatic spray gun needles see page 62

Air Consumption Graph

(measured using GTI Lite P gun with 1.4mm fluid Tip)



Spray Pattern

Pattern Shape:
Straight sides/tapered ends

Design Target Distance:
250mm (10")

Approximate Fan Size:
380mm long x 80mm wide @ 320 ml/min 20 sec Din 4

Typical Applications:

Wood, General Industrial, Metal, Ceramic, Vitreous Enamel, Lubricants, Adhesive, Plastic, Aerospace, Military, Decorative, Construction, Light Marine, Release Agent,

Typical Fluid Flow Specification:

Small to Medium scale application Air Cap.
250 – 400 ml/min

Viscosity Range Sprayed:
15 to 35 sec Din 4

Fluid Supply: Pressure Feed

Original design specification:	Solventbased & Waterbased coatings. Small to medium production. 2 to 4 bar dynamic inlet Pressure
Materials of Construction	Electroless Nickel Plated Brass Air Cap and Retaining Ring

Part Number: PRO-100-TE40-K (Cap & Retaining Ring).

Notes:

*Internal profile originally designed for Pressure Feed Applications

TE50

TRANS-TECH

#TE50 Air Cap:

Type:
Trans-Tech Compliant External Mix

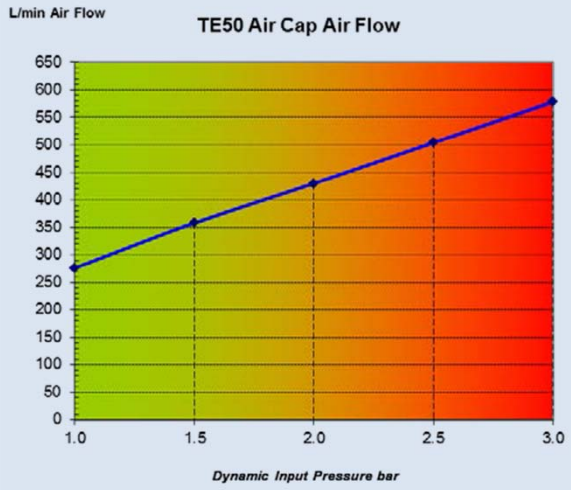
Used on Gun Type: GTI Pro Lite Pressure Hand Guns
AG361 & AG361 Automatic guns

Used over Fluid Tips:	GTI Pro Lite Pressure Fluid Needle
PRO-205-085*	PRO-320-085-10
PRO-205-10*	PRO-320-085-10
PRO-205-12*	PRO-320-12-14
PRO-205-14*	PRO-320-12-14
PRO-205-16*	PRO-320-16-18
PRO-205-18*	PRO-320-16-18
PRO-205-20*	PRO-320-20-22
PRO-205-22*	PRO-320-20-22

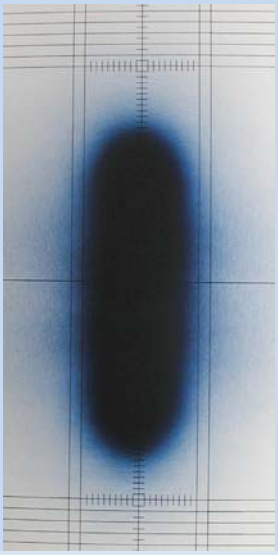
For AG-300 series automatic spray gun needles see page 02

Air Consumption Graph

(measured using GTI Lite P gun with 1.4mm fluid Tip)



Spray Pattern



Pattern Shape:
Straight sides/tapered ends

Design Target Distance:
200mm (8")

Approximate Fan Size:
300mm long x 95mm wide @ 300 ml/min 20 sec Din 4

Typical Applications:

General Industrial, Metal, Ceramic, Vitreous Enamel, Adhesive, Plastic, Aerospace, Military, Decorative, Construction.

Typical Fluid Flow Specification:

Medium to high scale application Air Cap.
250 – 400 ml/min
Viscosity Range Sprayed:
20 to 45 sec Din 4
Fluid Supply: Pressure Feed

Original design specification: Solventbased & Waterbased coatings. Medium to high production. 2 to 4 bar dynamic inlet Pressure

Materials of Construction Electroless Nickel Plated Brass Air Cap and Aluminium Retaining Ring

Part Number: PRO-102-TE50-K (Cap & Retaining Ring).

Notes:
*Internal profile originally designed for Pressure Feed Applications

F. Spray Pattern Faults and Troubleshooting

Split Spray Pattern

A C E H J

Split Spray Pattern

A C E H J

Burst Pattern

F K

Banana

L M

Centre Heavy

B D F I K

Centre Heavy

F G

One end heavy

L M

A.	Horn Air Pressure too high	Decrease using control knob
B.	Horn air Pressure too low	Increase using control knob or regulator Pressure
C.	Air Input Pressure to gun too high	Decrease regulator Pressure
D.	Air Input Pressure to gun too low	Increase
E.	Fluid flow too low	Increase fluid flow – larger Tip or increase Pressure
F.	Fluid flow too high	Decrease fluid flow – smaller Tip decrease Pressure
G.	Fluid flow too high for Fluid Tip size used	Decrease fluid flow or increase Fluid Tip size
H.	Fluid Viscosity too low for air Pressure used	Increase viscosity or decrease air Pressure
I.	Fluid Viscosity too high	Decrease viscosity or increase air Pressure
J.	Wrong Air Cap selected – lower fluid flow version required	Select alternative Air Cap
K.	Wrong Air Cap Selected – Higher fluid flow version required	Select alternative Air Cap
L.	Hole in Air Cap partially blocked or damaged	Clean or replace Air Cap
M.	Fluid Tip hole or front face partially blocked or damaged	Clean or replace Fluid Tip