

# AA G40 Automatic

Air-Assisted Spray Guns



*G40 Automatic*

*G40 Automatic with manifold*

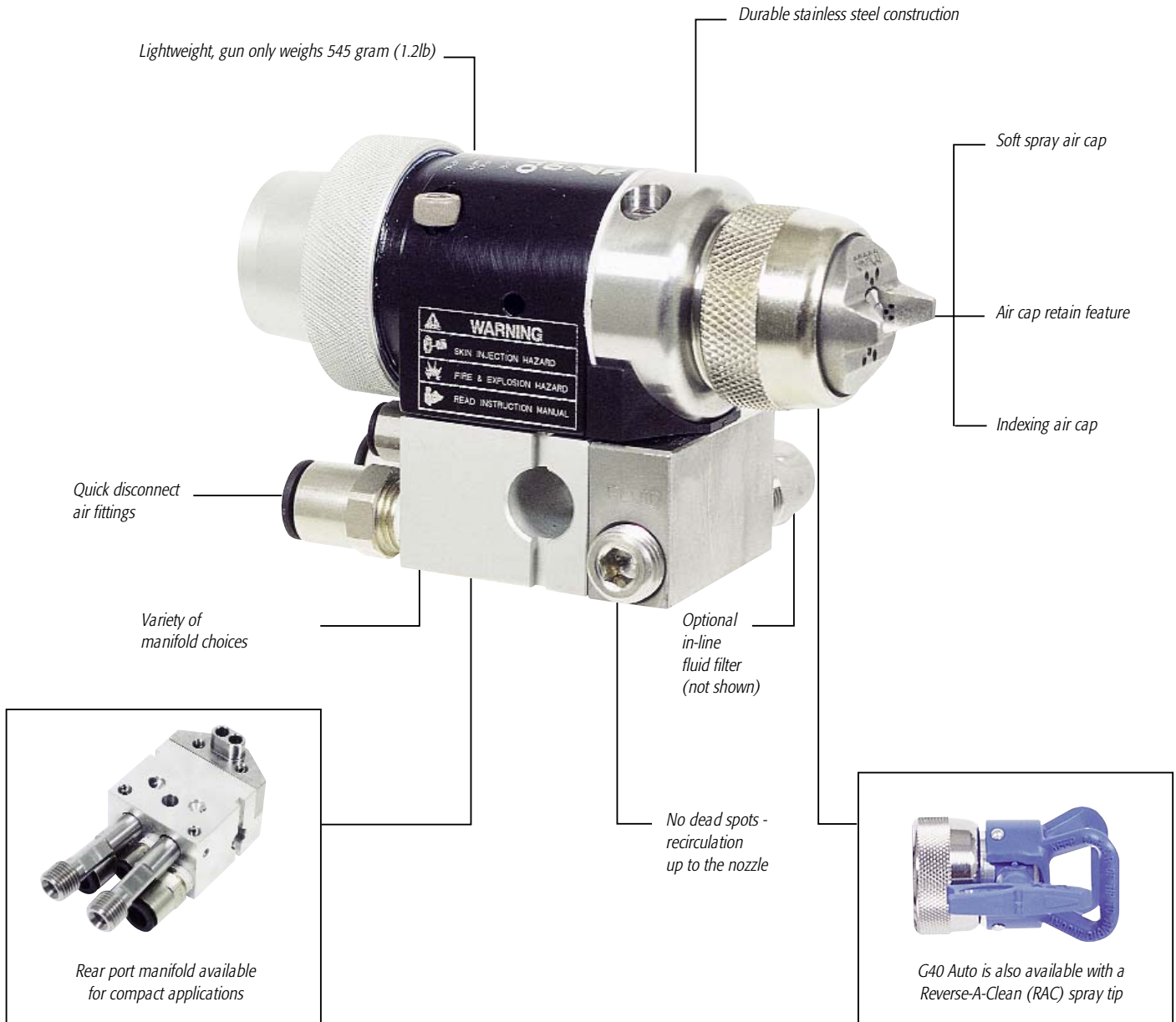
**Quality finishes and higher production speeds  
for wood and general metal finishing applications**

## FEATURES AND BENEFITS

- Extremely lightweight gun, only 545 gram
- Enhanced spray tip for uniform atomization and superior finish quality
- AAP precision tips allow for a tighter pattern width and position accuracy
- Increased transfer efficiency resulting from lower fluid and air pressure
- Fewer parts means an overall lower cost of repair
- The indexing air cap provides fast and accurate positioning in either the vertical or horizontal position

INDUSTRIAL

# AA Series Highlights



## Typical Applications

- Wood and furniture
- Leather finishing
- Metal furniture and fixture manufacturing
- Fabricated metal products

## Typical Fluids Handled

- Lacquers
- Acid catalyzed materials
- Solventborne epoxy and polyurethane materials
- Waterborne polyurethane materials
- Two component catalyzed materials

# Technical Specifications

|                                   |  |
|-----------------------------------|--|
| Maximum Fluid Pressure            | 276 bar (27.6 MPa, 4000 psi)   |
| Maximum Working Air Pressure      | 7 bar (0.7 MPa, 100 psi)   |
| Max. Cylinder Air Pressure        | 7 bar (0.7 MPa, 100 psi)   |
| Minimum Actuating Pressure        | 3.5 bar (0.3 MPa, 50 psi)  |
| Triggering Speed                  | 60 msec (fully open or closed)   |
| Maximum Working Fluid Temperature | 49°C (120°F)   |
| Wetted Parts                      | stainless steel, carbide, UHMWPE, acetal, polyethylene,<br>chemically resistant fluoroelastomer, PTFE, polyimide |
| Gun Weight                        | 545 g (1.2 lb)   |
| Gun and Manifold Weight           | 770 g (1.7 lb)   |
| Air Inlet                         |  |
| Atomizing Air                     | 3/8 in OD tube   |
| Fan Air                           | 3/8 in OD tube   |
| Cylinder Air                      | 1/4 in OD tube   |
| Fluid Inlet                       | 1/4 in npsm  |
| Dimensions (excluding fittings)   | 135 mm L x 76 mm H x 51 mm W<br>(5.3 in L x 3.0 in H x 2.0 in W)   |
| Instruction Manual                | 311052   |

# Ordering Information

## ORDERING INFORMATION

- 288046 Standard Gun**  
Includes carbide needle/ball and carbide diffuser seat. AAP precision spray tip of choice is specified when ordered.
- 288044 Acid Catalyst Gun**  
Specially designed to handle low viscosity, non-abrasive or acid-catalyzed materials. Includes a stainless steel needle/ball and an acetal seat. AAP precision spray tip of choice is specified when ordered.
- 288053 Reverse-A-Clean® (RAC) Gun**  
Designed with a RAC spray tip to reduce downtime caused by frequent tip clogging. Includes a carbide needle and seat, tip guard air cap and a choice of LTX or FFT spray tips.

### Manifolds *(A manifold is required for each gun to be installed)*

- 288221** Manifold with bottom fluid ports
- 288217** Manifold with side fluid ports
- 288224** Manifold with manual fan control with side fluid ports
- 288160 Rear Port Manifold**  
Rear exit fluid fitting manifold. Designed for robotic or compact applications
- 288197 Manifold Adapter Plate**  
Allows the manifold to be attached to a variety of bolt patterns

## ACCESSORIES

- 249140 HVLP Verification Kit**  
Use to check air cap air pressure at various air supply air pressures. Do not use for actual spraying.
- 249598 Unclogging Needle Kit**  
Kit includes picks for unclogging gun tip
- 15C161 Ultimate Gun Cleaning Kit**  
Kit includes brushes and tools for gun maintenance
- 249424 Acetal Seat Repair Kit**  
Kit includes replacement, acetal seat (pack of 10), and seat nut
- 249456 Carbide Seat Repair Kit**  
Kit includes carbide seat, seat nut and seat gasket
- 287962 SST Seat Repair Kit**  
Kit includes assembled diffuse with SST seat for use with pigmented acid catalyst material
- 253032 Aircap Seal Kit**  
Pack of 5 seals and 5 o-rings for the air cap assembly
- 248936 RAC Acetal Gasket**  
Pack of five plastic (acetal) replacement RAC gaskets
- 287917 RAC Conversion Kit**  
Converts a gun from a standard air cap and AAP spray tip to a RAC air cap and LTX spray tip

# Tip Selection Chart

## AAP Tip Chart

All tips in the AAP selection chart can be used with Models 288046 and 288044 G40 guns.  
Order desired tip (part no AAPxxx) from the selection chart below.

| Orifice Size<br>in (mm) | *Fluid Output, fl oz/min (lpm)  |                                  | Maximum Pattern Width at 12 in (300 mm) |                 |                 |                   |                   |                   |                   |
|-------------------------|---------------------------------|----------------------------------|---|-----------------|-----------------|-------------------|-------------------|-------------------|-------------------|
|                         | at 41 bar<br>(4.1 MPa, 600 psi) | at 70 bar<br>(7.0 MPa, 1000 psi) | 4 to 5<br>(125)                         | 6 to 7<br>(175) | 8 to 9<br>(225) | 10 to 11<br>(275) | 12 to 13<br>(325) | 14 to 15<br>(375) | 16 to 17<br>(425) |
| † 0.009 (0.229)         | 7.0 (0.2)                       | 9.1 (0.27)                       | 209                                     | 309             | 409             | 509               |                   |                   |                   |
| † 0.011 (0.279)         | 10.0 (0.3)                      | 13.0 (0.4)                       | 211                                     | 311             | 411             | 511               | 611               |                   |                   |
| 0.013 (0.330)           | 13.0 (0.4)                      | 16.9 (0.5)                       | 213                                     | 313             | 413             | 513               | 613               | 713               |                   |
| 0.015 (0.381)           | 17.0 (0.5)                      | 22.0 (0.7)                       | 215                                     | 315             | 415             | 515               | 615               | 715               | 815               |
| 0.017 (0.432)           | 22.0 (0.7)                      | 28.5 (0.85)                      |   | 317             | 417             | 517               | 617               | 717               | 817               |
| 0.019 (0.483)           | 28.0 (0.8)                      | 36.3 (1.09)                      |   |                 | 419             | 519               | 619               | 719               |                   |
| 0.021 (0.533)           | 35.0 (1.0)                      | 45.4 (1.36)                      |   |                 | 421             | 521               | 621               |                   |                   |

† These tip sizes include a 150 mesh tip filter

\*Tips are tested with water

## RAC SwitchTips

### FFT, LTX Spray Tips

Order desired tip (Part No. FFTxxx or LTXxxx) from the selection chart below. All tips in the selection chart can be used with Model 288053 G40 RAC gun.  
The RAC air cap also accommodates Wide Rac Tips (WRXxxx). Refer to instruction manual 311052.  
RAC Housing 15F442 order separately.

| Orifice Size<br>in (mm) | *Fluid Output, fl oz/min (lpm)     | Maximum Pattern Width at 12 in. (300 mm) |                 |                 |                  |                   |                   |                   |                   |                   |
|-------------------------|------------------------------------|--|-----------------|-----------------|------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
|                         | at 140 bar<br>(14.0 MPa, 2000 psi) | 2 to 4<br>(100)                          | 4 to 6<br>(150) | 6 to 8<br>(200) | 8 to 10<br>(250) | 10 to 12<br>(300) | 12 to 14<br>(350) | 14 to 16<br>(400) | 16 to 18<br>(450) | 18 to 20<br>(500) |
| 0.008 (0.203)           | 8.8 (0.26)                         |  | 208             | 308             |                  |                   |                   |                   |                   |                   |
| 0.009 (0.229)           | 11.2 (0.33)                        |  | 209             | 309             |                  |                   |                   |                   |                   |                   |
| 0.010 (0.254)           | 13.9 (0.41)                        |  | 210             | 310             | 410              | 510               |                   |                   |                   |                   |
| 0.011 (0.279)           | 16.6 (0.49)                        |  | 211             | 311             | 411              | 511               |                   |                   |                   |                   |
| 0.012 (0.305)           | 19.9 (0.59)                        |  | 212             | 312             | 412              | 512               | 612               |                   |                   |                   |
| 0.013 (0.330)           | 23.3 (0.69)                        |  | 213             | 313             | 413              | 513               |                   |                   |                   |                   |
| 0.014 (0.356)           | 27.0 (0.80)                        |  | 214             | 314             | 414              | 514               | 614               |                   |                   |                   |
| 0.015 (0.381)           | 30.8 (0.91)                        |  | 215             | 315             | 415              | 515               | 615               |                   |                   |                   |
| 0.017 (0.432)           | 39.5 (1.17)                        |  | 217             | 317             | 417              | 517               | 617               |                   |                   |                   |
| 0.019 (0.483)           | 49.7 (1.47)                        |  | 219             | 319             | 419              | 519               | 619               |                   |                   |                   |
| 0.021 (0.533)           | 60.5 (1.79)                        |  |                 | 321             | 421              | 521               | 621               | 721               |                   |                   |
| 0.023 (0.584)           | 72.7 (2.15)                        |  |                 |                 | 423              | 523               | 623               |                   |                   |                   |
| 0.025 (0.635)           | 85.9 (2.54)                        |  |                 |                 |                  | 525               | 625               |                   |                   |                   |
| 0.027 (0.686)           | 100.0 (2.96)                       |  |                 |                 |                  | 527               | 627               |                   | 827               |                   |
| 0.029 (0.737)           | 115.6 (3.42)                       |  |                 |                 |                  |                   | 629               |                   |                   |                   |
| 0.031 (0.787)           | 131.8 (3.90)                       |  |                 |                 |                  | 531               | 631               |                   |                   |                   |
| 0.033 (0.838)           | 149.4 (4.42)                       |  |                 |                 |                  |                   |                   |                   |                   |                   |
| 0.035 (0.889)           | 168.4 (4.98)                       |  |                 |                 |                  | 535               | 635               |                   |                   |                   |

FFTxxx = green  
LTXxxx = blue

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