G40 Automatic
Automatic Air-Assisted Spray Guns

Quality finishes and higher production speeds for wood and metal finishing

- Lightweight, durable stainless steel construction
- 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 aircap provides fast and accurate positioning in either the vertical or horizontal position
**LOADED with high performance features**

- Durable stainless steel construction for long life
- Lightweight, gun only weighs 1.2 lb (545 grams) (gun and manifold weighs under 2 lb [907 g])
- Indexing aircap provides flexible spraying in either the horizontal or vertical position
- Unique aircap delivers soft spray
- Enhanced tip offers a better spray pattern
- AAF Tip provides accurate pattern width and improves transfer efficiency
- Optional in-line fluid filter prevents tip clogging (not shown)
- Interior passages recirculate fluid up to the nozzle – eliminating dead spots
- Quick disconnect air fittings make transitions easier
- Variety of manifold choices for greater flexibility
- Rear port manifold available for compact applications
- G40 Auto is also available with a Reverse-A-Clean® (RAC®) spray tip for quick tip cleaning and less downtime

**TYPICAL APPLICATIONS**

Wood and furniture • Leather finishing • Metal furniture and fixture manufacturing • Fabricated metal products
Technical Specifications

Maximum fluid pressure................................................................. 4000 psi (276 bar, 27.6 MPa)
Maximum working air pressure ......................................................... 100 psi (7 bar, 0.7 MPa)
Max. cylinder air pressure ............................................................... 100 psi (7 bar, 0.7 MPa)
Minimum actuating pressure ............................................................. 50 psi (3.5 bar, 0.3 MPa)
Triggering speed........................................................................ 60 msec (fully open or close)
Maximum working fluid temperature ............................................... 120°F (49°C)

Wetted parts........................................................................ stainless steel, carbide, UHMWPE, acetal, polyethylene,
chemically resistant fluoroelastomer, PTFE, polyimide

Gun weight .................................................................................. 1.2 lb (545 g)
Gun and manifold weight ............................................................... 1.7 lb (770 g)

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 ..................................................................................... 5.3 in L x 3.0 in H x 2.0 in W
(135 mm L x 76 mm H x 51 mm W)

Instruction manual ...................................................................... 311052

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
aircap and a choice of LTX spray tip.

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

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.

Ordering Information

288221 Manifold with bottom fluid ports
2881722 Manifold with side fluid ports
288224 Manifold with manual fan control with side fluid ports
288106 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 diffuser with SST seat for use with
pigmented acid catalyst material

253032 Aircap Seal Kit
Pack of 5 seals and 5 o-rings for the aircap assembly

248936 RAC Acetal Gasket
Pack of 5 plastic (acetal) replacement RAC gaskets

287917 RAC Conversion Kit
Converts a gun from a standard aircap and AAP spray tip
to a RAC aircap and LTX spray tip

Lacquers • Acid catalyzed, solventborne epoxy/polyurethane & waterborne polyurethane materials • Two component catalyzed materials
## 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.

<table>
<thead>
<tr>
<th>Orifice Size in (mm)</th>
<th>*Fluid Output, fl oz/min (lpm)</th>
<th>Maximum Pattern Width at 12 in (305 mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>at 600 psi (4.1 Mpa, 41 bar)</td>
<td>at 1000 psi (7.0 Mpa, 70 bar)</td>
</tr>
<tr>
<td>0.009 (0.229)</td>
<td>7.0 (0.2)</td>
<td>9.1 (0.37)</td>
</tr>
<tr>
<td>0.011 (0.279)</td>
<td>10.0 (0.4)</td>
<td>13.0 (0.4)</td>
</tr>
<tr>
<td>0.013 (0.330)</td>
<td>13.0 (0.4)</td>
<td>16.9 (0.6)</td>
</tr>
<tr>
<td>0.015 (0.381)</td>
<td>17.0 (0.5)</td>
<td>22.0 (0.7)</td>
</tr>
<tr>
<td>0.017 (0.432)</td>
<td>22.0 (0.7)</td>
<td>28.5 (0.85)</td>
</tr>
<tr>
<td>0.019 (0.483)</td>
<td>28.0 (0.8)</td>
<td>36.3 (1.09)</td>
</tr>
<tr>
<td>0.021 (0.533)</td>
<td>35.0 (1.0)</td>
<td>45.4 (1.36)</td>
</tr>
</tbody>
</table>

*These tip sizes include a 150 mesh tip filter. *Tips are tested in water

### AAF Tip Chart

Recommended for high finish quality applications at low and medium pressure. AAF tips have a pre-orifice which assists in atomizing shear thinning materials, including lacquers. Order desired tip (part no. AAFxxx).

<table>
<thead>
<tr>
<th>Orifice Size in (mm)</th>
<th>*Fluid Output, fl oz/min (lpm)</th>
<th>Maximum Pattern Width at 12 in (305 mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>at 600 psi (4.1 Mpa, 41 bar)</td>
<td>at 1000 psi (7.0 Mpa, 70 bar)</td>
</tr>
<tr>
<td>0.011 (0.279)</td>
<td>9.5 (0.28)</td>
<td>12.5 (0.43)</td>
</tr>
<tr>
<td>0.013 (0.330)</td>
<td>12.0 (0.35)</td>
<td>16.0 (0.47)</td>
</tr>
<tr>
<td>0.015 (0.381)</td>
<td>16.0 (0.47)</td>
<td>21.0 (0.62)</td>
</tr>
<tr>
<td>0.017 (0.432)</td>
<td>20.0 (0.59)</td>
<td>26.5 (0.78)</td>
</tr>
</tbody>
</table>

*Tips are tested in water

### LTX Tip Chart

All tips in the LTX selection chart can be used with Model 288053 G40 RAC gun. Order desired tip (part no. LTXxxx) from the selection chart below.

The RAC aircap also accommodates fine finish tips (FFTxxx) and wide RAC tips (WRXxxx). Refer to instruction manual 311052.

<table>
<thead>
<tr>
<th>Orifice Size in (mm)</th>
<th>*Fluid Output, fl oz/min (lpm)</th>
<th>Maximum Pattern Width at 12 in (305 mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>at 2000 psi (14.0 Mpa, 140 bar)</td>
<td>4 to 6 (150)</td>
</tr>
<tr>
<td>0.009 (0.229)</td>
<td>11.2 (0.33)</td>
<td>209</td>
</tr>
<tr>
<td>0.011 (0.279)</td>
<td>16.6 (0.49)</td>
<td>211</td>
</tr>
<tr>
<td>0.013 (0.330)</td>
<td>23.3 (0.69)</td>
<td>213</td>
</tr>
<tr>
<td>0.015 (0.381)</td>
<td>30.8 (0.91)</td>
<td>215</td>
</tr>
<tr>
<td>0.017 (0.432)</td>
<td>39.5 (1.17)</td>
<td>217</td>
</tr>
<tr>
<td>0.019 (0.483)</td>
<td>49.7 (1.47)</td>
<td>219</td>
</tr>
<tr>
<td>0.021 (0.533)</td>
<td>60.5 (1.79)</td>
<td>321</td>
</tr>
<tr>
<td>0.023 (0.584)</td>
<td>72.7 (2.15)</td>
<td>423</td>
</tr>
<tr>
<td>0.025 (0.635)</td>
<td>85.9 (2.54)</td>
<td>525</td>
</tr>
<tr>
<td>0.027 (0.686)</td>
<td>100.0 (2.96)</td>
<td>527</td>
</tr>
<tr>
<td>0.029 (0.737)</td>
<td>115.6 (3.42)</td>
<td>629</td>
</tr>
<tr>
<td>0.031 (0.787)</td>
<td>131.8 (3.90)</td>
<td>631</td>
</tr>
</tbody>
</table>

*Tips are tested in water