



AGXV Automatic Maximum Performer HVLP Spray Gun
AGX Automatic Conventional Spray Gun

AGXV™

Automatic Maximum Performer HVLP Spray Gun

Designed for use with robots, automatic machines and stationary mounting, the AGXV Automatic Maximum Performer spray gun is built to withstand the harsh conditions common to automatic spray finishing applications.

- Patented Teflon® needle packings are spring loaded for extended service.
- Abrasive fluid packing available as an option for more abrasive coatings.
- Detachable spray head for fast needle packing replacement.
- Circulating capability standard.
- Optional remote fan control.

Ordering Information

The AGXV Automatic Maximum Performer spray gun is available with the following air cap and fluid tip set-ups, factory assembled for immediate delivery.

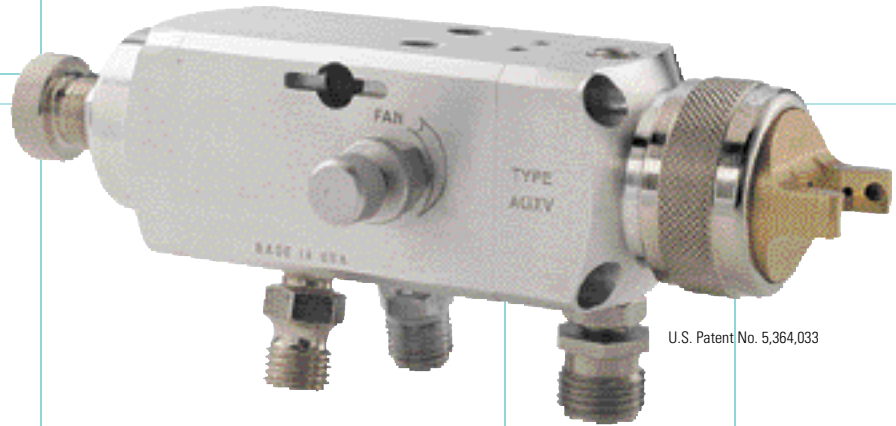
| Part No. | |
|-----------------|-----------------|
| AGXV-540-33AFF* | AGXV-541-83D* |
| AGXV-540-33AFX* | AGXV-541-83E* |
| AGXV-541-46FF* | AGXV-543-46FX** |
| AGXV-541-46FX* | AGXV-543-46FF |

These guns with fluid tip and needle can be ordered separately without air cap and retaining ring.

| Part No. | |
|--------------|---------------|
| AGXV-540-FF* | AGXV-541-E* |
| AGXV-540-FX* | AGXV-541-FF* |
| AGXV-540-G* | AGXV-541-FX** |
| | AGXV-542-FX** |

* Standard tips and needles are stainless steel.

** Includes 300-grade stainless steel with U.H.M.W. polyethylene seat in fluid tip.



U.S. Patent No. 5,364,033

AGX

Automatic Conventional Spray Gun

Built to withstand the rigors of high-speed production lines and harsh finishing conditions, the AGX automatic air spray gun is engineered for rugged reliability. Designed for use with industrial robots, reciprocators and stationary mounting, the AGX spray gun's compact size allows mounting in tight areas.

- Simplified gun design for greater reliability and ease of maintenance.
- AGX-550 spray gun comes with a stainless steel tip for use with many waterborne materials and chlorinated solvents. AGX-552 guns are specially equipped with carbolloy fluid tip and needle for use with water-mix materials and abrasives. AGX-553 guns include "premium" 300-grade stainless steel fluid tip with U.H.M.W. polyethylene insert (needle seat) and 300-grade stainless steel needle for use with mildly abrasive or corrosive materials. All AGX models include 300-grade stainless steel fluid passages.

Ordering Information

AGX spray guns are available with the following air cap and fluid tip set-ups, factory-assembled for immediate delivery.

| Part No. | |
|---------------|---------------|
| AGX-550-704E | AGX-550-704FX |
| AGX-550-704FF | |

These guns with fluid tip and needle can be ordered separately without air cap and retaining ring.

| Part No. | |
|------------|--------------|
| AGX-550-AC | AGX-552-AC• |
| AGX-550-D | AGX-552-D• |
| AGX-550-E | AGX-552-EE• |
| AGX-550-FF | AGX-552-FF• |
| AGX-550-FX | AGX-553-E** |
| AGX-550-G | AGX-553-FF** |
| | AGX-553-FX** |

• AGX-552 guns are specially equipped with carbolloy fluid tip and needle.

** Includes 300-grade stainless steel with U.H.M.W. polyethylene seat in fluid tip.

AGXV™

Automatic Maximum Performer
HVLP Spray Gun

Technical Specifications:

| | |
|---------------------------------|---|
| Body: | Machined aluminum |
| Weight: | 26 oz (728 gr) without mounting stud 30 oz (840 gr) with mounting stud |
| Cylinder Air Pressure: | 100 psi (7 bar) max., 50 psi (3 bar) min. |
| Air Inlet: | 100 psi (7 bar) max., 1/4" NPS (M) |
| Fluid Inlet: | 100 psi (7 bar) max., 3/8" NPS (M) |
| Wetted Parts: | 300 Grade stainless steel tips & needles, stainless steel fluid passages |
| Feed Type: (Material Supply) | Pressure feed |
| Fluid Pressure: | 100 psi (7 bar) max. |
| Mounting Stud: | 3/4" dia. |
| Service Bulletin: | SB-2-628 |
| Gun Repair Kit: | KK-4992-1 |

Accessories

- **Remote Fan Control** (KK-4955)
Permits remote adjustment of pattern size.
- **Fluid Tip and Needle Sets**
Several kits are available for corrosive materials, primers and highly pigmented materials.
- **Mounting Clamp** (AGA-415)
Clamps gun stud to rod, allowing gun rotation to any angle.
- **Abrasive Fluid Seal Kit** (KK-5017)
Designed for use with abrasive materials.
- **Mounting Block Accessory Kit** (KK-5046)
Allows mounting the gun onto a 1/2" rod.
- **Additional Accessories**
Fluid regulators, fluid strainers, air control units, gun and hose cleaning equipment and other accessories also are available.

Chart 1 AGXV Air Caps—Patterns & Applications

| Air Cap # (Complete No.) | Typical Pattern Size & Shape* | Typical Application |
|-----------------------------|---|---|
| 33A (JGHV-101-33A) | 9" (229 mm) long, tapered ends similar to 30 air cap | Most common finishing materials up to 12 oz./min. (360 cc) |
| 46MP (JGHV-101-46MP) | 11" (280 mm) long, straight-sided similar to 704 air cap | Low VOC material 12 to 16 oz./min. (360-480 cc) |
| 83MP (JGHV-101-83MP) | 13" (330 mm) long, straight-sided similar to 765 air cap | Low VOC material 17 oz./min. (510 cc) & above |

*Actual pattern length dependent upon fluid tip (nozzle) ID, coating material flow rate, air pressure and fan pressure.

AGX

Automatic Conventional
Spray Gun

Technical Specifications:

| | |
|---------------------------------|--|
| Body: | Machined aluminum |
| Weight: | 26 oz. (728 gr) without mounting stud 30.5 oz. (854 gr) with mounting stud |
| Cylinder Air Pressure: | 100 psi (7 bar) max., 50 psi (3 bar) min. |
| Air Inlet: | 100 psi (7 bar) max., 1/4" NPS (M) |
| Fluid Inlet: | 100 psi (7 bar) max., 3/8" NPS (M) |
| Wetted Parts: | AGX-550..... 300 & 400-grade stainless steel, Teflon® AGX-552..... 300 & 400-grade stainless steel, Carbolloy U.H.M.W. polyethylene AGX-553..... 300-grade stainless steel, U.H.M.W. polyethylene, Teflon® |
| Feed Type: (Material Supply) | Pressure feed |
| Fluid Pressure: | 100 psi (7 bar) max. |
| Mounting Stud: | 3/4" dia. |
| Service Bulletin: | SB-2-624 |
| Gun Repair Kit: | KK-4992-1 |

Accessories

- Convert to HVLP by changing the spray head, air cap and baffle.
(See Service Bulletin SB-2-628.)
- Fluid regulators, fluid strainers, air control, gun and hose cleaning equipment and other accessories are also available.
- KK-5046 Mounting block kit for mounting gun on 1/2" rod.
- Fan control kit – for remote operation (KK-4955)

Fluid Tip Orifice Sizes

| Letters on Tip | Inch | mm |
|----------------|-------|-----|
| AC | .110" | 2.8 |
| D | .086" | 2.2 |
| E (Stainless) | .070" | 1.8 |
| EE (Carbolloy) | .070" | 1.8 |
| FF | .055" | 1.4 |
| FX | .042" | 1.1 |
| G | .028" | 0.7 |

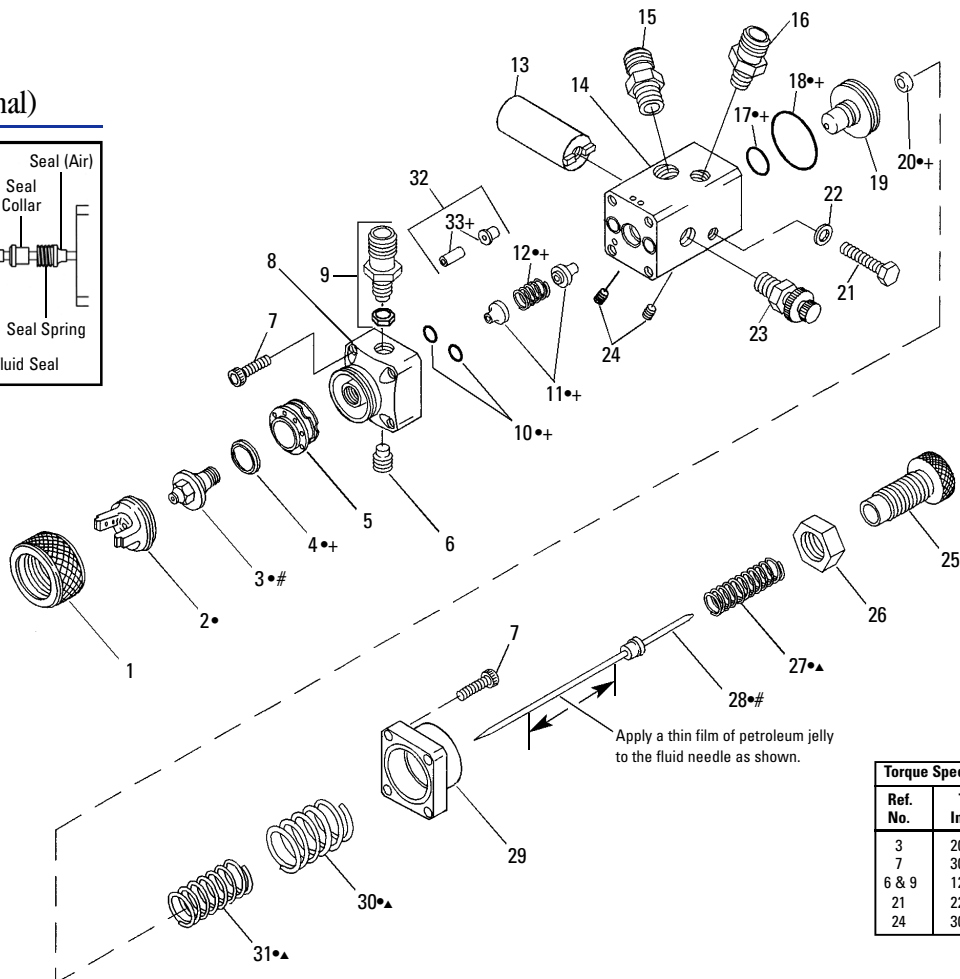
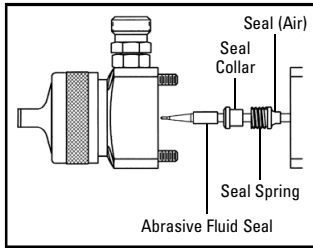
Chart 2 AGX Air Caps

| If this No. on Cap, Order → | Ref. No. (2) Air Cap Less Retaining Ring | Ref. No. (1 & 2) Air Cap With Retaining Ring |
|--------------------------------|--|--|
| 24 | AV-40-24 | |
| 30 | | MB-4039-30 |
| 58 | | AV-439-58 |
| 62 | | MB-4039-62HD |
| 64 | | MB-4039-64HD |
| 704 | AV-1239-704 | |
| 765 | AV-1239-765 | |
| 777 | 31767-777 | |
| 797 | AV-1239-797 | |

Retaining ring required (MBC-368)

AGXV™ Automatic Maximum Performer HVLP Spray Gun

Reference No. 32
KK-5017 Kit (Optional)



| Torque Specifications | | |
|-----------------------|--------------------------------------|-------------|
| Ref. No. | Torque Requirements Inch or Ft. Lbs. | N-m |
| 3 | 20-25 ft. lbs. | 27.0 - 24.0 |
| 7 | 30-40 in. lbs. | 3.4 - 4.5 |
| 6 & 9 | 12 ft. lbs. | 16.3 |
| 21 | 220 in. lbs. | 21.5 - 24.9 |
| 24 | 30 in. lbs. | 3.4 |

Parts List

| Ref. No. | Model No. | Description | Ind. Parts Required |
|----------|--------------------|---|---------------------|
| 1 | MBC-368 MSA-1 | Retaining Ring (plated brass) Retaining Ring (Delrin) (Optional) | 1 1 |
| *2 | See Chart 1 | Air Cap | 1 |
| #3 | See Chart 3 | Fluid Tip (nozzle) | 1 |
| +*4 | AV-1-K5 | Gasket | 1 |
| 5 | AGHV-403 | Baffle | 1 |
| 6 | AGX-6-K3 | Fluid Outlet Plug (Kit of 3) | 1 |
| 7 | SSF-3156-K4 | Mounting Screw (Kit of 4) | 8 |
| 8 | AGXV-400 | Sprayhead Assembly | 1 |
| 9 | AGX-415 | Inlet Fitting & Jam Nut | 1 |
| +*10 | — | "O" Ring, Buna-N | 2 |
| +*11 | — | Needle Packing, Teflon | 2 |
| +*12 | — | Seal Spring | 1 |
| 13 | KK-4995 | Gun Mounting Stud Kit (Includes Items 13, 21, 22 & 24) | 1 |
| 14 | AGX-11 | Body | 1 |
| 15 | H-2008 | Coupling 1/4 NPS(M) x 1/4 NPT(M) | 1 |
| 16 | H-1766 | Coupling 1/4 NPS(M) x 1/8 NPT(M) | 1 |
| +*17 | — | "O" Ring, Thiokol | 1 |
| +*18 | — | "O" Ring, Thiokol | 1 |
| 19 | AGX-9 | Piston | 1 |
| +*20 | — | Air Packing | 1 |
| 21 | — | Hex Hd. Cap Screw, 5/16-18 x 2-1/4 | 1 |
| 22 | — | 5/16 Lockwasher | 1 |
| 23 | AGG-403 | Air Valve Assy. - Horn | 1 |
| 24 | — | 1/4-28 x 1/4" Lg. Knurled cup point set screw | 2 |
| 25 | AGX-2-1-K3 | Adjustment Knob (Kit of 3) | 1 |
| 26 | 34215-122 | Locknut | 1 |
| ▲*27 | — | Needle Spring | 1 |
| #28 | See Chart 3 | Fluid Needle Assembly | 1 |
| 29 | AGX-10 | Back Piece | 1 |
| ▲*30 | — | Outer Piston Spring | 1 |
| ▲*31 | — | Inner Piston Spring (Red) | 1 |
| 32 | KK-5017 (optional) | Abrasive Fluid Seal Kit (includes 3 seals and 1 brass collar) | 1 |
| + 33 | — | Abrasive Fluid Seal (U.H.M.W. Poly.) | 1 |

* Recommended spare parts.

Order set, See Chart 3.

+ Parts included in KK-4992-1 Gun Repair Kit.

▲ Springs included in KK-4993 Spring Kit.

Chart 3 AGXV Fluid Tips (Nozzles) and Needles

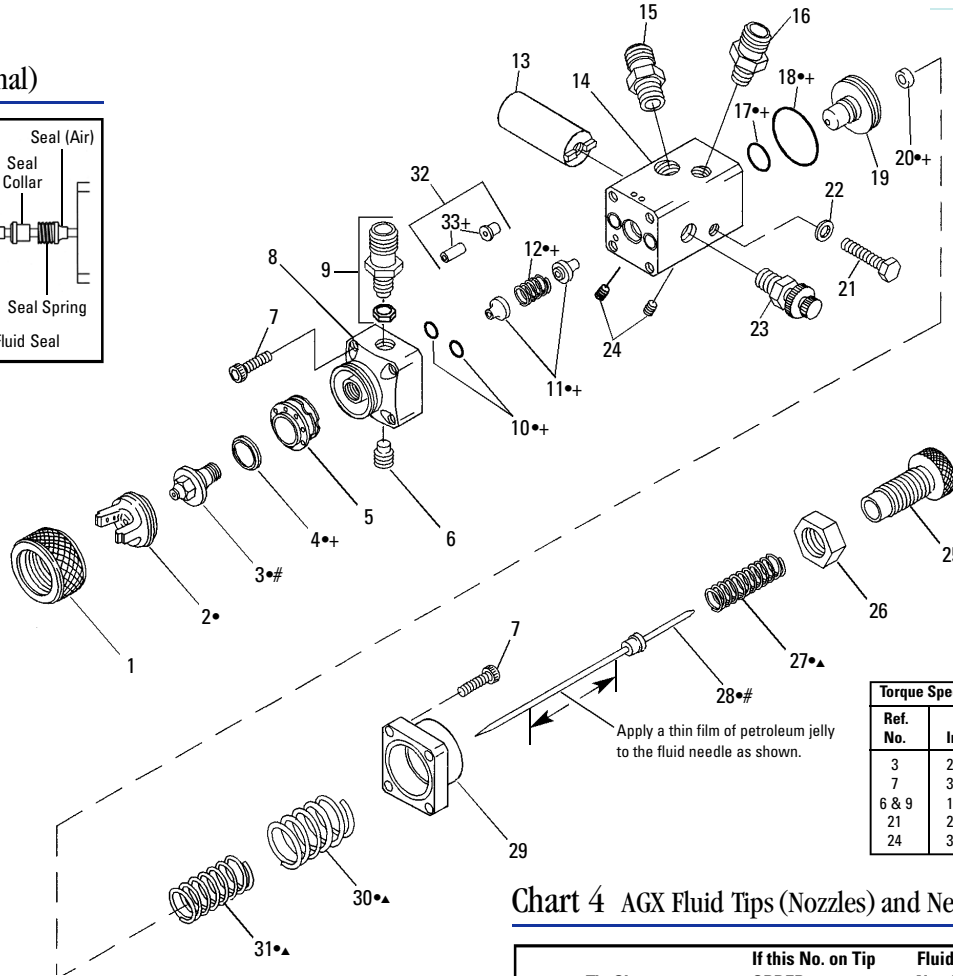
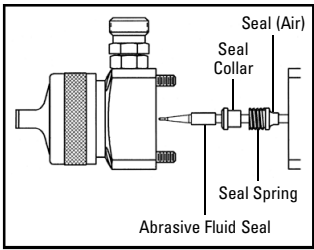
| Tip Size | | If this No. on Tip ORDER → | Fluid Tip & Needle Set |
|---|-----------|----------------------------|----------------------------|
| 400 Gr. Stainless Steel Tip/300 Stainless Steel Needle | | | |
| | In | mm | |
| E | .070" | 1.8 | AV-2115-E AGX-4402-E |
| FF | .055" | 1.4 | AV-2115-FF AGX-4402-FF |
| FX | .042" | 1.1 | AV-2115-FX AGX-4402-FX |
| G | .028" | 0.8 | AV-2115-G AGX-4402-G |
| FF | .055" | 1.4 | AV-2120-FF AGX-4600-FF* |
| FX | .042" | 1.1 | AV-2120-FX AGX-4600-FX* |
| D | .086" | 2.2 | AV-2120-D AGX-4483-D** |
| E | .070" | 1.8 | AV-2120-E AGX-4483-E** |
| 300 Gr. Stainless Steel, U.H.M.W. Poly. | | | |
| | In | mm | |
| E | .070" | 1.8 | AV-4915-E AGX-4300-E |
| FF | .055" | 1.4 | AV-4915-FF AGX-4300-FF |
| FX | .042" | 1.1 | AV-4915-FX AGX-4300-FX |
| FF | .055" | 1.4 | AV-4920-FF AGX-4613-FF* |
| FX | .042" | 1.1 | AV-4920-FX AGX-4613-FX* |

* For use with 46MP air cap.

** For use with 83MP air cap

AGX Automatic Spray Gun

Reference No. 32
KK-5017 Kit (Optional)



| Torque Specifications | | |
|-----------------------|---|-------------|
| Ref. No. | Torque Requirements Inch or Ft. Lbs. | N-m |
| 3 | 20-25 ft. lbs. | 27.0 - 24.0 |
| 7 | 30-40 in. lbs. | 3.4 - 4.5 |
| 6 & 9 | 12 ft. lbs. | 16.3 |
| 21 | 220 in. lbs. | 21.5 - 24.9 |
| 24 | 30 in. lbs. | 3.4 |

Chart 4 AGX Fluid Tips (Nozzles) and Needles

| Tip Size | | If this No. on Tip ORDER → | Fluid Tip & Needle Set |
|---|-----------|----------------------------|------------------------|
| 400 Gr. Stainless Steel Tip/300 Stainless Steel Needle | | | |
| | In mm | | |
| AC | .110" 2.8 | AV-2115-AC | AGX-4402-AC |
| D | .086" 2.2 | AV-2115-D | AGX-4402-D |
| E | .070" 1.8 | AV-2115-E | AGX-4402-E |
| FF | .055" 1.4 | AV-2115-FF | AGX-4402-FF |
| FX | .042" 1.1 | AV-2115-FX | AGX-4402-FX |
| G | .028" 0.7 | AV-2115-G | AGX-4402-G |
| Carboly | | | |
| D | .086" 2.2 | AV-1415-D | AGX-4410-D |
| E | .070" 1.8 | AV-1415-EE | AGX-4410-EE |
| FF | .055" 1.4 | AV-1415-FF | AGX-4410-FF |
| 300 Gr. Stainless Steel, U.H.M.W. Poly. | | | |
| E | .070" 1.8 | AV-4915-E | AGX-4300-E |
| FF | .055" 1.4 | AV-4915-FF | AGX-4300-FF |
| FX | .042" 1.1 | AV-4915-FX | AGX-4300-FX |
| FF | .055" 1.4 | AV-4920-FF | AGX-4613-FF* |
| FX | .042" 1.1 | AV-4920-FX | AGX-4613-FX* |

* For use with 46MP air cap.

Parts List

| Ref. No. | Model No. | Description | Ind. Parts Required |
|----------|--------------------|---|---------------------|
| 1 | MBC-368 | Retaining Ring (plated brass) | 1 |
| | MSA-1 | Retaining Ring (Delrin) (Optional) | 1 |
| *2 | See Chart 2 | Air Cap | 1 |
| #3 | See Chart 4 | Fluid Tip (nozzle) | 1 |
| +4 | AV-1-K5 | Gasket | 1 |
| 5 | MBC-1225 | Baffle | 1 |
| 6 | AGX-6-K3 | Fluid Outlet Plug (Kit of 3) | 1 |
| 7 | SSF-3156-K4 | Mounting Screw (Kit of 4) | 8 |
| 8 | AGXV-403 | Sprayhead Assembly | 1 |
| 9 | AGX-415 | Inlet Fitting & Jam Nut | 1 |
| +10 | — | "O" Ring, Buna-N | 2 |
| +11 | — | Needle Packing, Teflon | 2 |
| +12 | — | Seal Spring | 1 |
| 13 | KK-4995 | Gun Mounting Stud Kit (Includes Items 13, 21, 22 & 24) | 1 |
| 14 | AGX-11 | Body | 1 |
| 15 | H-2008 | Coupling 1/4 NPS(M) x 1/4 NPT(M) | 1 |
| 16 | H-1766 | Coupling 1/4 NPS(M) x 1/8 NPT(M) | 1 |
| +17 | — | "O" Ring, Thiokol | 1 |
| +18 | — | "O" Ring, Thiokol | 1 |
| 19 | AGX-9 | Piston | 1 |
| +20 | — | Air Packing | 1 |
| 21 | — | Hex Hd. Cap Screw, 5/16-18 x 2-1/4 | 1 |
| 22 | — | 5/16 Lockwasher | 1 |
| 23 | AGG-403 | Air Valve Assy. - Horn | 1 |
| 24 | — | 1/4-28 x 1/4" Lg. Knurled cup point set screw | 2 |
| 25 | AGX-2-1-K3 | Adjustment Knob (Kit of 3) | 1 |
| 26 | 34215-122 | Locknut | 1 |
| +27 | — | Needle Spring | 1 |
| #28 | See Chart 4 | Fluid Needle Assembly | 1 |
| 29 | AGX-10 | Back Piece | 1 |
| +30 | — | Outer Piston Spring | 1 |
| +31 | — | Inner Piston Spring (Red) | 1 |
| 32 | KK-5017 (optional) | Abrasive Fluid Seal Kit (includes 3 seals and 1 brass collar) | 1 |
| +33 | — | Abrasive Fluid Seal (U.H.M.W. Poly.) | 1 |

• Recommended spare parts.

Order set, See Chart 4.

+ Parts included in KK-4992-1 Gun Repair Kit.

▲ Springs included in KK-4993 Spring Kit.

Customer Service 1.800.992.4657



ITW Industrial Finishing
Devilbiss
195 Internationale Blvd.
Glendale Heights, IL 60139
630-237-5000
Fax 630-237-5011
www.devilbiss.com

