# Rockingham
## Systems

www.staticmixer.co.uk
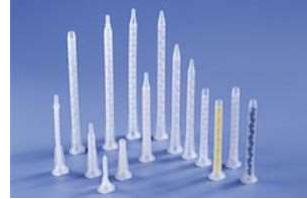
## 2-Component Mixers, Cartridges, Dispensers & Accessories

# Rockingham Systems

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Static Mixers: -

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Dispensers and Tools

# Rockingham Systems
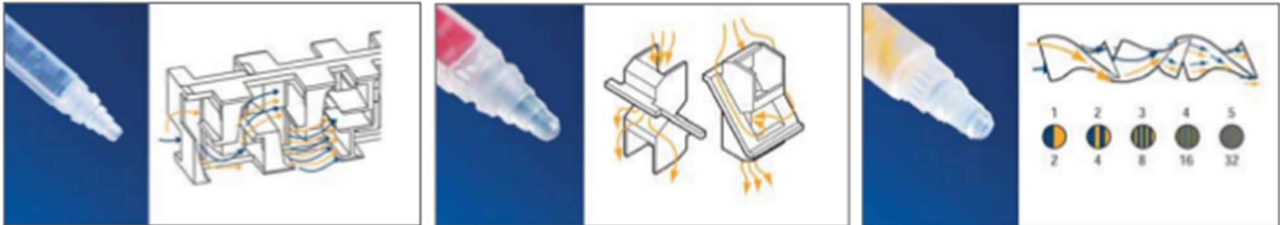
## Static Mixers

We offer a wide variety of static mixers, including square OptiMixers, Turbo Mixers or round Static Mixers. It is important to note, you should always use an OptiMixer or Turbo unless your application requires elements with a small diameter or long reach

### How Mixers Work – Element Geometry



OptiMixer (Square)        Turbo Mixer (Square)        Static Mixer

### Mixer Selection

Choose the higher number of elements if one of two things occur (please ask we are always happy to advise): -

- Material A & B are of very different viscosities.
- Material A & B are very wide in mix ratio (i.e. 4:1 or greater for certain fluids).

| Fluid | # Of Mixer Elements | Material Viscosity | |
|-------|---------------------|--------------------|---|
| Acrylic | 8 - 10 | Viscosity | Mixer Element Diameter |
| Epoxy | 15 - 24 | | |
| Polysulfide | 24 - 32 | Thin < 5,000 cps | 2.4-6.4mm |
| PU Foam | 10 - 24 | Medium 5,000-50,000 cps | 5.4-8.0mm |
| Silicone | 20 - 30 | Thick > 50,000 cps | >9.3mm |
| Urethane | 24 - 34 | | |

| Disposable Static Mixers Quick Reference | |
|------------------------------------------|---|
| Mixer | Cartridge Volume & type |
| OptiMixer-F | u-TAH (all), Coax 380ml, side x side 200-1500mL |
| Turbo Mixer-E | u-TAH (all), Coax 380ml, side x side 200-1500mL |
| Turbo Mixer-$E_2$ | u-TAH (all), Coax 380ml, side x side 200-1500mL |
| Turbo Mixer-$E_3$ | u-TAH (all), Coax 380ml, side x side 200-1500mL |
| Static Mixer-A | u-TAH (all), Coax 380ml, side x side 200-1500mL |
| Static Mixer-D | Side x Side 50mL |



Housing Length

Housing Outlet        Mixing Elements        Element Diameter

# Rockingham Systems

## Type-A Static Mixers

The mixing nozzle of the Type A has a bell inlet which fits our valve manifolds and large volume cartridges that separately port the A and B materials directly into the mixer. Clean-up simply involves removing the mixer and wiping the manifold face clean. In the case of the cartridges, because of the divider fin, simply remove the mixer. Our one-piece Metal Jacket is recommended if working pressure inside the nozzle exceeds 150 psi (10 bar) (only used with meter mix valves or manifolds).

### Element Diameter 4.8mm

| Part # | # Mixing Elements | Housing Length (cm) | Housing Inlet | Housing Outlet | Outlet Tip Orifice (mm) | Element / Housing |
|--------|-------------------|---------------------|---------------|----------------|-------------------------|-------------------|
| 100858 | 8 | 6.65 | Bell | Slip Luer | 1.78 | Acetyl/PP |
| 101064 | 8 | 6.65 | Bell | Luer Lok | 1.78 | Acetyl/PP |
| 100774 | 16 | 9.91 | Bell | Slip Luer | 1.78 | Acetyl/PP |
| 100859 | 24 | 13.16 | Bell | Slip Luer | 1.78 | Acetyl/PP |
| 101065 | 24 | 13.16 | Bell | Luer Lok | 1.78 | Acetyl/PP |
| 100860 | 32 | 16.46 | Bell | Slip Luer | 1.78 | Acetyl/PP |
| 101066 | 32 | 16.46 | Bell | Luer Lok | 1.78 | Acetyl/PP |
| 100861 | 48 | 22.96 | Bell | Slip Luer | 1.78 | Acetyl/PP |
| 101067 | 48 | 22.96 | Bell | Luer Lok | 1.78 | Acetyl/PP |

### Element Diameter 6.30mm

| Part # | # Mixing Elements | Housing Length (cm) | Housing Inlet | Housing Outlet | Outlet Tip Orifice (mm) | Element / Housing |
|--------|-------------------|---------------------|---------------|----------------|-------------------------|-------------------|
| 100862 | 8 | 9.04 | Bell | Slip Luer | 2.29 | Acetyl/PP |
| 101068 | 8 | 9.04 | Bell | Luer Lok | 2.29 | Acetyl/PP |
| 100863 | 16 | 13.87 | Bell | Slip Luer | 2.29 | Acetyl/PP |
| 101069 | 16 | 13.87 | Bell | Luer Lok | 2.29 | Acetyl/PP |
| 100864 | 24 | 18.95 | Bell | Slip Luer | 2.29 | Acetyl/PP |
| 101070 | 24 | 18.95 | Bell | Luer Lok | 2.29 | Acetyl/PP |
| 101071 | 24 | 18.95 | Bell | Luer Lok | 2.29 | Acetyl/PP |
| 100865 | 32 | 24.10 | Bell | Slip Luer | 2.29 | Acetyl/PP |
| 101072 | 32 | 24.10 | Bell | Luer Lok | 2.29 | Acetyl/PP |
| 101073 | 32 | 24.10 | Bell | Luer Lok | 2.29 | Acetyl/PP |
| 100866 | 48 | 33.38 | Bell | Slip Luer | 2.29 | Acetyl/PP |
| 101074 | 48 | 33.38 | Bell | Luer Lok | 2.29 | Acetyl/PP |
| 101075 | 48 | 33.38 | Bell | Luer Lok | 2.29 | Acetyl/PP |

### Element Diameter 8.00mm

| Part # | # Mixing Elements | Housing Length (cm) | Housing Inlet | Housing Outlet | Outlet Tip Orifice (mm) | Element / Housing |
|--------|-------------------|---------------------|---------------|----------------|-------------------------|-------------------|
| 100867 | 18 | 17.68 | Bell | Stepped | 2.45 | Acetyl/PP |
| 101076 | 18 | 17.68 | Bell | Luer Lok | 2.45 | Acetyl/PP |
| 100868 | 24 | 22.45 | Bell | Stepped | 2.45 | Acetyl/PP |
| 101077 | 24 | 22.45 | Bell | Luer Lok | 2.45 | Acetyl/PP |
| 100869 | 32 | 29.06 | Bell | Stepped | 2.45 | Acetyl/PP |
| 101078 | 32 | 29.06 | Bell | Bell | 2.45 | Acetyl/PP |
| 101079 | 40 | 35.92 | Bell | Luer Lok | 3.05 | Acetyl/PP |
| 100874 | 60 | 56.90 | Bell | Stepped | 3.05 | Acetyl/PP |
| 100875 | 64 | 60.96 | Bell | Stepped | 3.05 | Acetyl/PP |

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**Type-A Continued.**

| Part # | # Mixing Elements | Housing Length (cm) | Housing Inlet | Housing Outlet | Outlet Tip Orifice (mm) | Element / Housing |
|---|---|---|---|---|---|---|
| 100870 | 12 | 13.92 | Bell | Stepped | 3.05 | Acetyl/PP |
| 101080 | 12 | 13.92 | Bell | Luer Lok | 3.05 | Acetyl/PP |
| 100871 | 18 | 18.49 | Bell | Stepped | 3.05 | Acetyl/PP |
| 101081 | 18 | 18.49 | Bell | Luer Lok | 3.05 | Acetyl/PP |
| 100872 | 24 | 23.24 | Bell | Stepped | 3.05 | Acetyl/PP |
| 101082 | 24 | 23.24 | Bell | Luer Lok | 3.05 | Acetyl/PP |
| 100575 | 30 | 28.55 | Bell | Stepped | 3.05 | Acetyl/PP |
| 101083 | 30 | 28.55 | Bell | Luer Lok | 3.05 | Acetyl/PP |
| 100873 | 40 | 35.92 | Bell | Stepped | 3.05 | Acetyl/PP |

| Part # | # Mixing Elements | Housing Length (cm) | Housing Inlet | Housing Outlet | Outlet Tip Orifice (mm) | Element / Housing |
|---|---|---|---|---|---|---|
| 100876 | 12 | 17.04 | Bell | Stepped | 4.57 | Acetyl/PP |
| 101084 | 12 | 17.04 | Bell | Luer Lok | 4.57 | Acetyl/PP |
| 100877 | 18 | 23.06 | Bell | Stepped | 4.57 | Acetyl/PP |
| 101085 | 18 | 23.06 | Bell | Luer Lok | 4.57 | Acetyl/PP |
| 100878 | 24 | 29.46 | Bell | Stepped | 4.57 | Acetyl/PP |
| 101086 | 24 | 29.46 | Bell | Luer Lok | 4.57 | Acetyl/PP |
| 100573 | 30 | 35.79 | Bell | Stepped | 4.57 | Acetyl/PP |
| 101087 | 30 | 35.79 | Bell | Luer Lok | 4.57 | Acetyl/PP |
| 100533 | 36 | 42.24 | Bell | Stepped | 4.57 | Acetyl/PP |
| 101088 | 36 | 42.24 | Bell | Luer Lok | 4.57 | Acetyl/PP |

**Type-A$_2$ Quick Spray Mixer**

The Type A$_2$ Quick Spray is a low-pressure air-assisted spray system for two-component coatings. This disposable static mixer is designed for use with conventional meter/mix equipment or with our two-component cartridge system. The reactive coating is mixed within the disposable static mixer. At the mixer outlet, air is introduced which atomizes the liquid stream. The degree of atomization can be adjusted by regulating the airflow rate. Since the reactive coating is contained completely within the mixer, clean-up is minimal.



Note the Type A$_2$ system also requires these Parts: -

- Air Cap Assembly #101091.
- Quick Connect Fitting #101092.

| Part # | # Mixing Elements | Housing Length (cm) | Housing Inlet | Housing Outlet | Element / Housing |
|---|---|---|---|---|---|
| 101089 | 24 | 19.08 | Bell | Tapered | PP/PP |
| 101090 | 24 | 25.12 | Bell | Tapered | PP/PP |

All Type A Mixers can be used with: -  u-TAH Universal Cartridges, 380mL Coaxial Cartridges, 200-1500mL Side x Side Cartridges & Meter-Mix Valves (Except A$_2$).

## Type-A₃ Mixer

Identical to the Type-A Mixers, except the housing outlet is designed to work with the ProTip Mixer Accessory. The ProTip allows you to easily apply a ribbon of material.

Element Diameter 19.9mm

| Part # | # Mixing Elements | Housing Length (cm) | Housing Inlet | Housing Outlet | Outlet Tip Orifice (mm) | Element / Housing |
|---|---|---|---|---|---|---|
| 101093 | 18 | 17.68 | Bell | ProTip | 2.54 | Acetyl/PP |
| 101094 | 24 | 22.45 | Bell | ProTip | 2.54 | Acetyl/PP |

Element Diameter 9.30mm

| Part # | # Mixing Elements | Housing Length (cm) | Housing Inlet | Housing Outlet | Outlet Tip Orifice (mm) | Element / Housing |
|---|---|---|---|---|---|---|
| 101095 | 18 | 18.49 | Bell | ProTip | 3.05 | Acetyl/PP |
| 101096 | 24 | 23.24 | Bell | ProTip | 3.05 | Acetyl/PP |

Element Diameter 12.65mm

| Part # | # Mixing Elements | Housing Length (cm) | Housing Inlet | Housing Outlet | Outlet Tip Orifice (mm) | Element / Housing |
|---|---|---|---|---|---|---|
| 101097 | 18 | 23.06 | Bell | ProTip | 4.57 | Acetyl/PP |
| 101098 | 24 | 24.96 | Bell | ProTip | 4.57 | Acetyl/PP |

## ProTip Mixer Accessory

| Part # | Width (mm) | Material |
|---|---|---|
| 101099 | 12.5 | Polyethylene |
| 101100 | 25.0 | Polyethylene |

The ProTip Mixer Accessory is designed to provide higher speed, increased control, and an easy and cost-efficient way to apply ribbons when applying two-component materials. The polyethylene ProTip easily snaps onto the Type-A₃ & Type B Static Mixers.



## Type-B Static Mixer

Intended for high-flow rate meter mix applications, this series contains our largest disposable bell mixers: 19.9mm in diameter with either 16, 23, 32, 39 or 48 elements. The rugged nylon housing has an oversized bell inlet. The downstream outlet is designed with a 1/2" NPS male thread to attach extensions or other types of accessories.
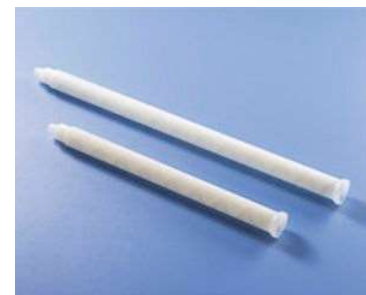


Element Diameter 19.9mm

| Part # | # Mixing Elements | Housing Length (cm) | Housing Inlet | Housing Outlet | Outlet Tip Orifice (mm) | Element / Housing |
|---|---|---|---|---|---|---|
| 100879 | 16 | 31.7 | Large Bell | Pro Tip | 6.9 | Acetyl/Nylon |
| 100691 | 23 | 43.2 | Large Bell | Pro Tip | 6.9 | PP/PP |
| 100504 | 32 | 62.2 | Large Bell | Pro Tip | 6.9 | PP/PP |
| 100880 | 39 | 77.0 | Large Bell | Pro Tip | 6.9 | PP/PP |
| 100881 | 48 | 92.5 | Large Bell | Pro Tip | 6.9 | PP/PP |

## Type-C Static Mixer

Type C Mixers are available in Standard Bell and Integral Nut inlet connections. Integral Nut eliminates the need for a separate retaining nut. Options are the Bell Mixer, Spiral Barbed Extension Mixer and Integral Nut Mixer (7/8 - 9).

Element Diameter 12.8mm

| Part # | # Mixing Elements | Housing Length (cm) | Housing Inlet | Housing Outlet | Retained Volume (ml) | Element / Housing |
|--------|-------------------|---------------------|---------------|----------------|----------------------|-------------------|
| 100882 | 12 | 17.02 | Bell | Stepped | 15 | PP/PP |
| 100883 | 18 | 23.11 | Bell | Stepped | 19 | PP/PP |
| 100884 | 24 | 29.72 | Bell | Stepped | 25 | PP/PP |
| 100885 | 18 | 35.8 | Bell | Barb Ext | 24 | PP/PP |

Element Diameter 9,3mm

| Part # | # Mixing Elements | Housing Length (cm) | Housing Inlet | Housing Outlet | Retained Volume (ml) | Element / Housing |
|--------|-------------------|---------------------|---------------|----------------|----------------------|-------------------|
| 100886 | 5 | 12.4 | Integral Nut | Tapered | 7 | Acetyl/PP |

Element Diameter 8.5mm

| Part # | # Mixing Elements | Housing Length (cm) | Housing Inlet | Housing Outlet | Retained Volume (ml) | Element / Housing |
|--------|-------------------|---------------------|---------------|----------------|----------------------|-------------------|
| 100887 | 12 | 21.8 | Integral Nut | Tapered | 12 | Acetyl/PP |

Element Diameter 12.8mm

| Part # | # Mixing Elements | Housing Length (cm) | Housing Inlet | Housing Outlet | Retained Volume (ml) | Element / Housing |
|--------|-------------------|---------------------|---------------|----------------|----------------------|-------------------|
| 100888 | 18 | 24.4 | Integral Nut | Stepped | 19 | Acetyl/PP |
| 100889 | 18 | 36.5 | Integral Nut | Barb Ext | 24 | Acetyl/PP |

Element Diameter 16.00

| Part # | # Mixing Elements | Housing Length (cm) | Housing Inlet | Housing Outlet | Retained Volume (ml) | Element / Housing |
|--------|-------------------|---------------------|---------------|----------------|----------------------|-------------------|
| 101101 | 12 | 43.84 | Integral Nut | Full Bore | 58 | Acetyl/PP |

Element Diameter 20.0mm

| Part # | # Mixing Elements | Housing Length (cm) | Housing Inlet | Housing Outlet | Retained Volume (ml) | Element / Housing |
|--------|-------------------|---------------------|---------------|----------------|----------------------|-------------------|
| 100890 | 16 | 32.7 | Bell | Full Bore | 71 | Acetyl/PP |
| 100891 | 20 | 39.6 | Bell | Full Bore | 88 | Acetyl/PP |

All Type B & C Mixers can be used with: - u-TAH Universal Cartridges, 380mL Coaxial Cartridges & 200-1500mL Side x Side Cartridges.

## Type-D Static Mixer (Series 190)

Featuring a standard Bayonet connection, the Type D Mixer is designed for use with 50 mL two-component cartridges. It has five diameters available with four outlet styles: Slip Luer, Full Bore, H-Tapered, and Stepped. The Slip Luer is our standard offering. The Full Bore ensures maximum flow with minimal back pressure.

For use with: 50mL Side x Side Cartridges

Element Diameter 2.36mm

| Part # | # Mixing Elements | Housing Length (cm) | Housing Inlet | Housing Outlet | Retained Volume (mL) | Element / Housing |
|--------|-------------------|---------------------|---------------|----------------|----------------------|-------------------|
| 100892 | 12 | 3.8 | Bayonet | Slip Luer | 0.10 | Acetyl/PP |

Element Diameter 3.18mm

| Part # | # Mixing Elements | Housing Length (cm) | Housing Inlet | Housing Outlet | Retained Volume (mL) | Element / Housing |
|--------|-------------------|---------------------|---------------|----------------|----------------------|-------------------|
| 100893 | 12 | 5.3 | Bayonet | H-Tapered* | 0.20 | Acetyl/PP |
| 100894 | 24 | 8.6 | Bayonet | H-Tapered* | 0.40 | Acetyl/PP |

Continued next page

**Type-D Continued**

Element Diameter 4.75mm

| | | | | | | |
|---|---|---|---|---|---|---|
| 100895 | 8 | 4.1 | Bayonet | Full Bore | 0.40 | Acetyl/PP |
| 100896 | 16 | 8.6 | Bayonet | Slip Luer | 0.90 | Acetyl/PP |
| 100897 | 16 | 8.6 | Bayonet | H-Tapered* | 0.90 | Acetyl/PP |

Element Diameter 5.40mm

| | | | | | | |
|---|---|---|---|---|---|---|
| 100898 | 7 | 5.8 | Bayonet | Slip Luer | 0.90 | Acetyl/PP |
| 100899 | 17 | 11.2 | Bayonet | Stepped | 1.90 | Acetyl/PP |
| 100900 | 21 | 13.5 | Bayonet | Stepped | 2.40 | Acetyl/PP |

Element Diameter 6.35mm

| | | | | | | |
|---|---|---|---|---|---|---|
| 100901 | 12 | 9.9 | Bayonet | Slip Luer | 1.90 | Acetyl/PP |
| 100902 | 16 | 12.2 | Bayonet | Stepped | 2.50 | Acetyl/PP |
| 100903 | 20 | 15.0 | Bayonet | Slip Luer | 3.00 | Acetyl/PP |
| 100904 | 20 | 15.0 | Bayonet | Stepped | 3.00 | Acetyl/PP |
| 100905 | 20 | 15.0 | Bayonet | H-Tapered* | 3.00 | Acetyl/PP |
| 100906 | 20 | 13.5 | Bayonet | Full Bore | 2.80 | Acetyl/PP |

*The H-Tapered outlet is offered where precise placement of the adhesive is required. To connect Luer needles or extensions, it is moulded with an interlocking connection. This requires the attachment of a Luer Lok Adapter #101002 ordered separately.



**Type-E Turbo Mixer**

Shorter than comparable spiral mixers, the square Turbo Mixers allow users to get closer to their application while reducing adhesive waste. The Type E 11.2 mm Turbo Mixer square geometry can provide superior mixing, allowing the operator to be closer to the application, and reducing the retained waste within the mixer. All mixers have 7/8 - 9 Integral Nut.



Element Width 11.2mm

| Part # | # Mixing Elements | Housing Length (cm) | Housing Inlet | Housing Outlet | Retained Volume (mL) | Element / Housing |
|---|---|---|---|---|---|---|
| 100914 | 20 | 19.1 | Integral Nut | Short Barb | 15.1 | PP/PP |
| 100915 | 26 | 22.9 | Integral Nut | Short Barb | 17.0 | PP/PP |
| 100916 | 20 | 25.3 | Integral Nut | Special Conical Ribbed | 17.9 | PP/PP |

The optional "hanging bracket" attaches the Type Mixer to the u-TAH Cartridge Systems. The double-looped form snaps onto the 11.2 mm nozzle's unique ribs and over the neck of a cartridge creating a durable attachment. – #101273.

## Type-E$_2$ High-Flow Turbo Mixer

The 14.3 mm High-Flow Turbo Mixer provides higher flow rates with less effort. The square geometry consists of a series of alternating left- and right-hand elements with intermittent flow inverters which effectively channel the fluids from the walls into the centre of the mixer. The High-Flow Turbo is designed to fit most disposable cartridges.

Element Width 14.3mm

| Part # | # Mixing Elements | Housing Length (cm) | Housing Inlet | Housing Outlet | Retained Volume (mL) | Element / Housing |
|--------|-------------------|---------------------|---------------|----------------|----------------------|-------------------|
| 100918 | 19 | 38.9 | Integral Nut | Short Barb | 40.4 | PP/PP |
| 100917 | 19 | 38.9 | Integral Nut | Short Barb | 40.4 | PP/PP |

Types-E & E$_2$ Turbo Mixers can be used with u-TAH, 380mL Coaxial or 200-1500mL Cartridges

## Type-E$_3$ Bayonet Turbo Mixers



The Type-E$_3$ Turbo Mixer ensures superior mixing performance and allows the operator to be closer to the workpiece. Designed for 50mL two-component cartridges, the Turbo geometry consists of a series of alternating left- and right-hand elements with intermittent flow inverters. The flow inverters effectively channel the fluids from the walls into the centre of the mixer and from the centre to the walls.

Element Width 5.15mm

| Part # | # Mixing Elements | Housing Length (cm) | Housing Inlet | Housing Outlet | Retained Volume (mL) | Element / Housing |
|--------|-------------------|---------------------|---------------|----------------|----------------------|-------------------|
| 100919 | 20 | 10.2 | Bayonet | Slip Luer | 1.4 | PP/PP |
| 100920 | 20 | 9.2 | Bayonet | Full Bore | 1.4 | PP/PP |
| 100921 | 20 | 10.2 | Bayonet | Luer Lok | 1.4 | PP/PP |

Type-E$_3$ Bayonet Turbo Mixers are for use with 50mL Side x Side Cartridges.

## Type-F OptiMixers



Using proprietary flow simulation technology to improve the material flow path design and element wedges, the OptiMixer delivers better mix quality in a 20% shorter length, without impacting other performance factors. It allows users to dispense in closer proximity to applications, providing greater control and higher job quality with 30% less retained volume. Integral nut mixers have a 7/8 - 9 thread.

**Type-F OptiMixer**

Element Width 8.7mm

| Part # | # Mixing Elements | Housing Length (cm) | Housing Inlet | Housing Outlet | Retained Volume (mL) | Element / Housing |
|---|---|---|---|---|---|---|
| 101102 | 9 | 7.4 | Integral Nut | Barbed | 1.6 | Acetyl/PP |
| 101103 | 17 | 10.2 | Integral Nut | Stepped | 4.7 | Acetyl/PP |
| 101104 | 17 | 10.2 | Integral Nut | Barbed | 4.7 | Acetyl/PP |
| 101105 | 25 | 13.0 | Bell | Stepped | 6.5 | Acetyl/PP |
| 101106 | 25 | 14.2 | Integral Nut | Stepped | 6.5 | Acetyl/PP |
| 101107 | 25 | 14.2 | Integral Nut | Barbed | 6.5 | Acetyl/PP |
| 101108 | 33 | 16.0 | Bell | Stepped | 7.5 | Acetyl/PP |
| 101109 | 33 | 17.3 | Integral Nut | Stepped | 7.5 | Acetyl/PP |
| 101110 | 41 | 20.6 | Integral Nut | Stepped | 10.0 | Acetyl/PP |

Type-F OptiMixers are for use with u-TAH, 380ml Coaxial & 200-1500mL Side x Side Cartridges.

**Type-G PU Foam (FFR) Mixers**

Foam Froth Remover (FFR) mixers are intended for urethane foam applications. The extended tube serves two purposes: for reach and to reduce the spiralling of material after the elements to allow for a more accurate dispense.

Element Diameter 12.70mm

| Part # | # Mixing Elements | Flow Rate (PPM) | Housing Length (cm) | Element/ Housing |
|---|---|---|---|---|
| 101111 | 24 | 15 | 33.53 | Acetyl/PP |

Element Diameter 16.23mm

| Part # | # Mixing Elements | Flow Rate (PPM) | Housing Length (cm) | Element/ Housing |
|---|---|---|---|---|
| 101112 | 10 | 30 | 101.60 | Acetyl/Nylon |
| 101113 | 20 | 30 | 60.96 | Acetyl/Nylon |
| 101114 | 10 | 30 | 38.10 | PP/Nylon |

Element Diameter 20.07mm

| Part # | # Mixing Elements | Flow Rate (PPM) | Housing Length (cm) | Element/ Housing |
|---|---|---|---|---|
| 101115 | 12 | 60 | 63.50 | Acetyl/Nylon |
| 101116 | 16 | 60 | 71.12 | Acetyl/Nylon |
| 101117 | 16 | 60 | 101.60 | Acetyl/Nylon |

For use with Meter-Mix Valves.

## Type-H Plastic Inline Mixers

The all-plastic assembly mixers are ideal for short pot life adhesives. Its low cost allows disposal of the mixer instead of purging or baking. The housing is translucent, so the operator can inspect the condition of the mixer. With the interior mixing elements moulded of Acetyl, it has the toughness and chemical resistance to be inert to common solvents. Maximum service temperature is 250°F (121°C).

### Element Diameter 2.39mm

| Part # | # Mixing Elements | Housing Ends (MNPT) | Housing Length | Pressure Limit† | Element/ Housing |
|--------|-------------------|---------------------|----------------|-----------------|------------------|
| 100941 | 30 | Plain | 8.26 | 65 | Acetyl*/Nylon |

### Element Diameter 3.18mm

| Part # | # Mixing Elements | Housing Ends (MNPT) | Housing Length | Pressure Limit† | Element/ Housing |
|--------|-------------------|---------------------|----------------|-----------------|------------------|
| 100942 | 24 | Plain | 5.59 | 40 | Acetyl*/Nylon |
| 100943 | 30 | Plain | 8.89 | 40 | Acetyl*/Nylon |
| 100944 | 60 | Plain | 17.78 | 40 | Acetyl*/Nylon |

### Element Diameter 4.80mm

| Part # | # Mixing Elements | Housing Ends (MNPT) | Housing Length | Pressure Limit† | Element/ Housing |
|--------|-------------------|---------------------|----------------|-----------------|------------------|
| 100945 | 24 | Plain | 10.41 | 30 | Acetyl*/Nylon |
| 100946 | 32 | Plain | 13.72 | 30 | Acetyl*/Nylon |

### Element Diameter 6.30mm

| Part # | # Mixing Elements | Housing Ends (MNPT) | Housing Length | Pressure Limit† | Element/ Housing |
|--------|-------------------|---------------------|----------------|-----------------|------------------|
| 100947 | 24 | Plain | 16.51 | 41 | Acetyl*/Nylon |
| 100948 | 32 | Plain | 21.59 | 41 | Acetyl*/Nylon |
| 100949 | 40 | Plain | 26.67 | 41 | Acetyl*/Nylon |
| 100950 | 48 | Plain | 21.59 | 41 | Acetyl*/Nylon |
| 100951 | 56 | Plain | 21.59 | 41 | Acetyl*/Nylon |

### Element Diameter 8.00mm

| Part # | # Mixing Elements | Housing Ends (MNPT) | Housing Length | Pressure Limit† | Element/ Housing |
|--------|-------------------|---------------------|----------------|-----------------|------------------|
| 100957 | 12 | 1/4" | 18.03 | 38 | Acetyl*/Nylon** |
| 100958 | 18 | 1/4" | 23.11 | 38 | Acetyl*/Nylon** |
| 100959 | 24 | 1/4" | 27.18 | 38 | Acetyl*/Nylon** |

### Element Diameter 9.32mm

| Part # | # Mixing Elements | Housing Ends (MNPT) | Housing Length | Pressure Limit† | Element/ Housing |
|--------|-------------------|---------------------|----------------|-----------------|------------------|
| 100952 | 12 | Plain | 11.18 | 32 | Acetyl*/Nylon |
| 100953 | 24 | Plain | 21.34 | 32 | Acetyl*/Nylon |
| 100954 | 30 | Plain | 26.42 | 32 | Acetyl*/Nylon |
| 100955 | 36 | Plain | 31.50 | 32 | Acetyl*/Nylon |
| 100956 | 42 | Plain | 36.58 | 32 | Acetyl*/Nylon |

### Element Diameter 9.40mm

| Part # | # Mixing Elements | Housing Ends (MNPT) | Housing Length | Pressure Limit† | Element/ Housing |
|--------|-------------------|---------------------|----------------|-----------------|------------------|
| 100961 | 12 | 1/4" | 19.05 | 32 | Acetyl*/Nylon** |
| 100962 | 18 | 1/4" | 24.38 | 32 | Acetyl*/Nylon** |
| 100963 | 24 | 1/4" | 29.21 | 32 | Acetyl*/Nylon** |
| 100964 | 30 | 1/4" | 34.29 | 32 | Acetyl*/Nylon** |

### Element Diameter 12.62mm

| Part # | # Mixing Elements | Housing Ends (MNPT) | Housing Length | Pressure Limit† | Element/ Housing |
|--------|-------------------|---------------------|----------------|-----------------|------------------|
| 100965 | 12 | 3/8" | 21.59 | 24 | Acetyl*/Nylon** |
| 100966 | 18 | 3/8" | 28.19 | 24 | Acetyl*/Nylon** |
| 100967 | 24 | 3/8" | 34.29 | 24 | Acetyl*/Nylon** |
| 100968 | 30 | 3/8" | 40.64 | 24 | Acetyl*/Nylon** |

Pressure limit based on BAR@150°C.  *Elements non-removable.  **Housing also available in Nylon with Brass threaded ends.

**Rockingham** *Systems*

## Type-H Continued.

Element Diameter 16.00mm

| Part # | # Mixing Elements | Housing Ends (MNPT) | Housing Length | Pressure Limit† | Element/ Housing |
|--------|-------------------|----------------------|----------------|------------------|-------------------|
| 100969 | 10 | 1/2" | 23.88 | 21 | Acetyl*/Nylon** |
| 100735 | 20 | 1/2" | 36.58 | 21 | Acetyl*/Nylon** |
| 100970 | 30 | 1/2" | 50.04 | 21 | Acetyl*/Nylon** |
| 100971 | 35 | 1/2" | 56.39 | 21 | Acetyl*/Nylon** |

Element Diameter 19,91mm

| Part # | # Mixing Elements | Housing Ends (MNPT) | Housing Length | Pressure Limit† | Element/ Housing |
|--------|-------------------|----------------------|----------------|------------------|-------------------|
| 100972 | 8 | 3/4" | 25.40 | 17 | Acetyl*/Nylon** |
| 100973 | 16 | 3/4" | 38.35 | 17 | Acetyl*/Nylon** |
| 100974 | 24 | 3/4" | 51.82 | 17 | Acetyl*/Nylon** |
| 100975 | 32 | 3/4" | 65.02 | 17 | Acetyl*/Nylon** |

Pressure limit based on BAR@150°C.  *Elements non-removable.  **Housing also available in Nylon with Brass threaded ends.

## Type-I Mixer Elements

The Type-I plastic spiral elements have an "apple core" cross section. Elements are injection-moulded in one operation ensuring excellent quality control and low unit cost. Benefits include long life and great flow rate, plus element flushes clean with less solvent.

| Part # | # Mixing Elements | Element Diameter (mm) | Element Length (cm) | Element* |
|--------|-------------------|------------------------|----------------------|----------|
| 100923 | 12 | 2.36 | 2.95 | Acetyl |
| 100924 | 12 | 3.18 | 3.30 | Acetyl |
| 100925 | 14 | 4.80 | 5.66 | Acetyl |
| 100926 | 16 | 4.85 | 6.50 | Acetyl |
| 100927 | 7 | 5.38 | 3.76 | Acetyl |
| 100928 | 21 | 5.38 | 11.30 | Acetyl |
| 100929 | 8 | 6.30 | 5.08 | Acetyl |
| 100930 | 12 | 6.30 | 7.62 | Acetyl |
| 100931 | 16 | 6.38 | 10.06 | Acetyl |
| 100932 | 20 | 6.30 | 12.70 | Acetyl |
| 100933 | 24 | 6.30 | 15.09 | Acetyl |
| 100934 | 12 | 8.00 | 9.32 | Acetyl |
| 100935 | 6 | 9.32 | 5.08 | Acetyl |
| 100665 | 12 | 9.40 | 9.91 | Acetyl |
| 100937 | 24 | 9.30 | 19.89 | Acetyl |
| 100938 | 12 | 12.62 | 12.70 | Acetyl |
| 100939 | 18 | 12.62 | 18.98 | Acetyl |
| 100662 | 10 | 16.00 | 13.77 | Acetyl |
| 100597 | 8 | 20.07 | 13.77 | Acetyl |
| 100940 | 4 | 26.04 | 14.99 | Acetyl |

*PP available in select sizes, please contact us for more information.

## Type-J High Pressure Stainless Steel Mixers

Designed for high-pressure applications, Type-J Mixers are available in four diameters and with 21 to 32 elements. A series of left and right hand "edge sealed" spiral elements are nicrobrazed into the length of the tube and cannot be removed. Streamlined contour of the elements ensures the mixer flushes clean with less solvent. Heavy-walled tubing resists warpage during furnace cleaning (maximum furnace temperature should not exceed 1250°F /676°C) and increases the life of the mixer.



### Element Diameter 2.87mm

| Part # | # Mixing Elements | Housing Length (cm) | Pressure Limit † | Element / Housing |
|--------|-------------------|---------------------|------------------|-------------------|
| 100976 | 27 | 19.1 | 476 | 316 SST* / 304 SST** |

### Element Diameter 4.75mm

| Part # | # Mixing Elements | Housing Length (cm) | Pressure Limit † | Element / Housing |
|--------|-------------------|---------------------|------------------|-------------------|
| 100977 | 21 | 17.78 | 290 | 316 SST* / 304 SST** |
| 100978 | 27 | 23.50 | 290 | 316 SST* / 304 SST** |

### Element Diameter 7.42mm

| Part # | # Mixing Elements | Housing Length (cm) | Pressure Limit † | Element / Housing |
|--------|-------------------|---------------------|------------------|-------------------|
| 100979 | 27 | 35.56 | 248 | 316 SST* / 304 SST** |

### Element Diameter 10.62mm

| Part # | # Mixing Elements | Housing Length (cm) | Pressure Limit † | Element / Housing |
|--------|-------------------|---------------------|------------------|-------------------|
| 100980 | 24 | 23.50 | 193 | 316 SST* / 304 SST** |
| 100981 | 32 | 23.50 | 193 | 316 SST* / 304 SST** |

† Pressure limit based on BAR@150°C.  *Elements 316 Stainless Steel non-removable.  **Housing in 304 stainless steel with plain ends.

## Type-J₂ High Pressure Stainless Steel Mixers

Type-J₂ Pipe Mixers are designed for high-pressure applications and feature sturdy metal housings with Type-I disposable plastic mixing elements. The housing is made from heavy-walled stainless steel pipe that resists dents and distortions. For routine maintenance, the mixer can be pushed out and replaced.



### Element Diameter 9.3mm

| Part # | # Mixing Elements | Housing Ends (MNPT) | Housing Length (cm) | Pressure Limit † | Element / Housing |
|--------|-------------------|---------------------|---------------------|------------------|-------------------|
| 100982 | 12 | 1/4" | 10.67 | 585 | Acetyl* / 304 SST |
| 100983 | 18 | 1/4" | 15.75 | 585 | Acetyl* / 304 SST |
| 100984 | 24 | 1/4" | 20.83 | 585 | Acetyl* / 304 SST |
| 100985 | 30 | 1/4" | 25.40 | 585 | Acetyl* / 304 SST |

### Element Diameter 12.62mm

| Part # | # Mixing Elements | Housing Ends (MNPT) | Housing Length (cm) | Pressure Limit † | Element / Housing |
|--------|-------------------|---------------------|---------------------|------------------|-------------------|
| 100986 | 24 | 3/8" | 27.18 | 500 | Acetyl* / 304 SST |
| 100987 | 30 | 3/8" | 33.32 | 500 | Acetyl* / 304 SST |

### Element Diameter 16.00mm

| Part # | # Mixing Elements | Housing Ends (MNPT) | Housing Length (cm) | Pressure Limit † | Element / Housing |
|--------|-------------------|---------------------|---------------------|------------------|-------------------|
| 100988 | 30 | 1/2" | 41.66 | 500 | Acetyl* / 304 SST |

Element Diameter 19.91mm

| 100989 | 24 | 3/4" | 41.66 | 415 | Acetyl* / 304 SST |
| 100990 | 32 | 3/4" | 55.12 | 415 | Acetyl* / 304 SST |

† Pressure limit based on BAR@150°C.  *Elements are removable, see Type-I Mixer Elements for replacement parts (Page 12).

## Type-J₃ High Pressure Stainless Steel Mixers

Rugged and reliable, the Type-J₃ Mixers are all stainless steel and feature a modular design so you can remove the elements for easy cleaning. Two or more mixers can be coupled together using a pipe connector. Streamlined contour of the elements ensures the mixer flushes clean with less solvent. Heavy-walled tubing resists warpage during furnace cleaning (maximum furnace temperature should not exceed 1250°F /676°C) and increases the life of the mixer.
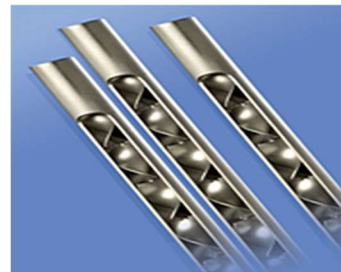
Element Diameter 6.78mm

| Part # | # Mixing Elements | Housing Ends (MNPT) | Housing Length (cm) | Pressure Limit † | Element / Housing |
|--------|-------------------|---------------------|---------------------|------------------|-------------------|
| 100991 | 12 | 1/8" | 13.67 | 600 | 316 SST* / 304 SST |

Element Diameter 9.22mm

| 100992 | 6 | 1/4" | 9.53 | 585 | 316 SST* / 304 SST |
| 100993 | 12 | 1/4" | 17.78 | 585 | 316 SST* / 304 SST |

Element Diameter 12.55mm

| 100994 | 12 | 3/8" | 24.13 | 500 | 316 SST* / 304 SST |

Element Diameter 15.83mm

| 100995 | 6 | 1/2" | 14.61 | 500 | 316 SST* / 304 SST |
| 100996 | 12 | 1/2" | 27.94 | 500 | 316 SST* / 304 SST |

Element Diameter 19.79mm

| 100997 | 12 | 3/4" | 37.47 | 415 | 316 SST* / 304 SST |

Element Diameter 26.21mm

| 100998 | 6 | 1" | 24.13 | 310 | 316 SST* / 304 SST |
| 100999 | 12 | 1" | 46.99 | 310 | 316 SST* / 304 SST |

Element Diameter 40.13mm

| 101000 | 6 | 1-1/2" | 35.56 | 207 | 316 SST* / 304 SST |

Element Diameter 51.69mm

| 101001 | 6 | 2" | 44.45 | 170 | 316 SST* / 304 SST |

† Pressure limit based on BAR@150°C.  *Elements are removable, please contact us for replacement part recommendations.

**Mixer Accessories**

**Manifolds**

We offer a wide variety of two-component manifolds which separately port the A-Component and B-Component into the mixing nozzle. Clean-up simply involves wiping the manifold face after the nozzle has been removed. To prevent back flow or cross contamination of reactive material, inline check valves are available. Designed when you're dispensing without a meter mix valve, but directly through the mixer. We advise you contact us to discuss your requirements.

**Dispensing Tips for Mixers**

We offer a wide range of dispensing tips to go with our mixers and would again suggest you contact us to discuss your requirements.

**Manifold Adaptors**

Mixers can be connected to some pre-existing manifolds or valves using adapters. Please contact us for more information to ensure the correct selection.

| Part # | Material | Inlet |
| --- | --- | --- |
| 101118 | Carbon Steel | 1/2" Female NPT |
| 101119 | Carbon Steel | 11/16" Female NPT (for Venus Gun) |
| 101120 | Carbon Steel | 1/4" Male NPT |
| 101121 | Carbon Steel | 3/8" Male NPT |
| 101122 | Carbon Steel | 1/2" Male NPT |
| 101123 | Carbon Steel | 3/4" Male NPT |
| 100525 | Aluminium | 7/8" – 14 Female NPT (for 2K Valves) |
| 101124 | Carbon Steel | 1/2" Male NPT |
| 101125 | Carbon Steel | 3/4" Male NPT |
| 101126 | Carbon Steel | 1" Male NPT |

**Mixer Retaining Nuts**

Available to hold mixing nozzles onto adapters, block manifolds, and meter mix valves. Also, used when a metal jacket is not required.

| Part # | Material | Thread |
| --- | --- | --- |
| 101127 | Aluminium | 2K Standard 7/8 – 14 |
| 101128 | Aluminium | Alternative 7/8 – 9 |
| 101129 | Aluminium | 2K Standard 7/8 – 14 |
| 101130 | Aluminium | Alternative 7/8 – 9 |
| 100538 | Aluminium | 2K Standard 7/8 – 14 |
| 101131 | Aluminium | Alternative 7/8 - 9 |
| 101132 | Aluminium | 1-1/16 - 12 |
| 100524 | Carbon Steel | 1-5/16 – 12 UNF |
| 101133 | Aluminium | 1-1/4 – 12 NS |
| 101134 | Aluminium | 2K Standard |

Please contact us to ensure correct selection of retaining nut.

**One-Piece Metal Jackets for Mixers on Meter-Mix Valves**

For medium- and high-pressure systems where pressure inside the mixer is greater than 150 psi (10 bar), we recommend that a metal jacket be used over the mixing nozzle. Ideal for robotic applications where repeat positioning is required.

| Part # | Material | Thread | Mixer # | Mixer Type |
|--------|----------|--------|---------|------------|
| 101135 | Aluminium, Robotic | 2K Standard 7/8-14 | 100864 | Type-A |
| 101136 | Aluminium | Alternative 7/8-9 | 100863 | Type-A |
| 101137 | Aluminium, Robotic | 2K Standard 7/8-14 | 100859 | Type-A |
| 101138 | Aluminium | 2K Standard 7/8-14 | 100859 | Type-A |
| 101139 | Aluminium | 2K Standard 7/8-14 | 100865 | Type-A |
| 101140 | Aluminium | 2K Standard 7/8-14 | 100866 | Type-A |
| 101141 | Aluminium | Alternative 7/8-9 | 100868 | Type-A |
| 101142 | Aluminium | Alternative 7/8-9 | 100871 | Type-A |
| 101143 | Aluminium | 2K Standard 7/8-14 | 100872 | Type-A |
| 101144 | Aluminium, Robotic | 2K Standard 7/8-14 | 100872 | Type-A |
| 101145 | Aluminium | 2K Standard 7/8-14 | 100575 | Type-A |
| 101146 | Aluminium, Robotic | 2K Standard 7/8-14 | 100575 | Type-A |
| 101147 | Aluminium | 2K Standard 7/8-14 | 100873 | Type-A |
| 101148 | Aluminium, Robotic | 2K Standard 7/8-14 | 101095 | Type-A |
| 101149 | Aluminium, Robotic | Alternative 7/8-9 | 101096 | Type-A |
| 101150 | Aluminium | Alternative 7/8-9 | 101096 | Type-A |
| 101151 | CS Nut/SS Jacket | 2K Standard 7/8-14 | 100878, 101098 | Type-A |
| 101152 | Aluminium, Robotic | 2K Standard 7/8-14 | 100878, 101098 | Type-A |
| 101153 | CS Nut/SS Jacket | 2K Standard 7/8-14 | 100573 | Type-A |
| 100532 | CS Nut/SS Jacket | 2K Standard 7/8-14 | 100533 | Type-A |
| 101154 | Aluminium, Robotic | Alternative 7/8-9 | 101105 | Type-F |
| 101155 | CS Nut/SS Jacket | 1-5/16 - 12 | 100879 | Type-B |
| 101156 | CS Nut/SS Jacket | 1-5/16 - 12 | 100691 | Type-B |
| 101157 | CS Nut/SS Jacket | 1-5/16 - 12 | 100504 | Type-B |

# 2K Cartridge Systems

| u-TAH Universal | Side x Side | 380mL Coaxial |

We supply only high-quality cartridge systems for packaging a wide variety of two-component materials. Products include Side x Side cartridges in various sizes, the u-TAH Universal Cartridges which fit a standard caulking gun and 380mL Coaxial cartridges.

Features and Benefits: -

• Eliminates mess and waste.

• Reduces exposure to hazardous resins.

• Ensures accurate proportioning and mixing.

• Choice of open-end or closed-end outlets.

• Available in custom colours.

| Cartridge Volumes, Ratios and Types | | | | | | | |
|---|---|---|---|---|---|---|---|
| Volume | Cartridge Ratio | | | | Cartridge Type | | |
| | 1:1 | 2:1 | 4:1 | 10:1 | u-TAH | Side x Side | Coax |
| 50mL | √ | √ | √ | √ | - | Nylon or PP | - |
| 180mL | | √ | | | PP | - | - |
| 200mL | √ | √ | | | - | Nylon or PP | - |
| 250mL | √ | | | | Nylon or PP | - | - |
| 280mL | | | | √ | Nylon | - | - |
| 300mL | √ | | | | - | Nylon or PP | - |
| 380mL | | | | √ | - | - | Nylon |
| 400mL | √ | | | | - | Nylon or PP | - |
| 600mL | √ | | | | - | PP | - |
| 1500mL | √ | | | | - | PP | - |

-

## u-TAH Universal Cartridge System

The u-TAH Universal Cartridge System is a breakthrough in two-component cartridge design.

The u-TAH Cartridge looks identical to standard caulking cartridges — in fact, you might not realize it is two-component until you begin to dispense your product. It is the only cartridge system that maintains accurate ratio control and fits into your existing 310ml caulking gun. This system also fits into pneumatic (rod-driven) and battery-powered caulking tools.

The standard u-TAH cartridge contains bleed vents to allow air to escape during filling. When using low viscosity material (less than 1000cps) a "non-vented" version is available. Contact us for more information.

Quality Tested for Robustness

The cartridge body is moulded of a rigid plastic that won't burst during the most demanding applications. The interior components are fully assembled, and each cartridge is air tested. This 100% factory inspected process guarantees that, after filling, the cartridge will maintain a superior shelf life and provide trouble-free applications in the field.



u-TAH Universal Cartridge Systems

| Part # | Ratio | Max Volume | Material |
|--------|-------|------------|----------|
| 101158 | 1:1 | 250 mL | PP |
| 101159 | 1:1 | 250 mL | Nylon |
| 101160 | 2:1 | 180 mL | PP |
| 101161 | 10:1 | 280 mL | Nylon |
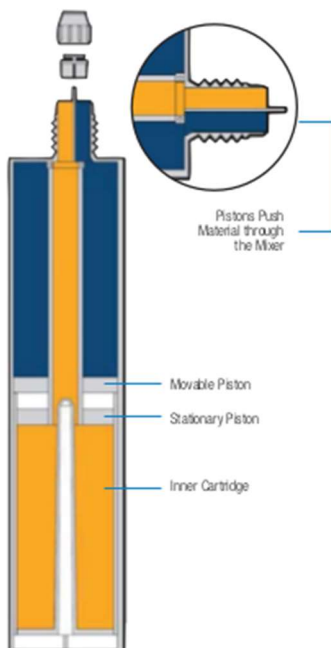
### u-TAH Cartridge Flow Restrictors

We recommend the use of our Flow Restrictor when dispensing low-viscosity fluids. Thin adhesives are often too free-flowing and can cause cross contamination, lead/lag problems and plugging.

This low-cost solution eliminates these problems by slowing the thinner components flow.



Flow restrictor    Remove plug    Insert restrictor    Attach mixer
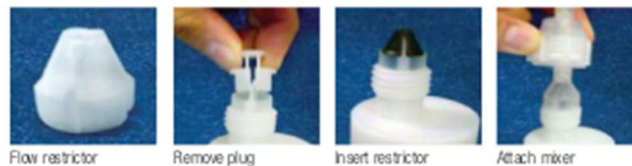
**Recommended**

Mixers Type: A, F, E, $E_2$ & C.

Pistons: Come pre-installed.

Dispenser: Standard caulking gun.

| Part # | Orifice Size (mm) | Colour |
|--------|-------------------|--------|
| 101162 | 1.5 | Translucent |
| 101163 | 2.4 | Black |

**380mL Coaxial Cartridge Systems**

The 380mL coaxial cartridge has a centre tube that contains one material and an outer "doughnut" that contains a second material in a 10:1 ratio.

Features and Benefits

- Robust neck outlet prevents cracking
- Rotating valve opens and closes outlet
- Large valve bores for greater flow
- Moulded valve seals ensure long, leak-free shelf life.
- Partially used cartridges are easily re-sealed by closing valve
- Pre-inserted pistons for ease of filling through the nose.
- Cartridges are staked to retain pre-installed piston.

- Cartridges are staked to retain pre-installed piston

| Part # | Ratio | Description | Material |
|--------|-------|-------------|----------|
| 101164 | 10:1 | 380mL coaxial cartridge assembly | Nylon |
| 101165 | 10:1 | Cartridge body with valve (no staking) * | Nylon |
| 101166 | 10:1 | Inner piston* | PE |
| 101167 | 10:1 | Doughnut Piston* | PE |
| 101168 | 10:1 | Valve Wrench* | - |

*Sold Separately.

**Recommended**

Mixers Type: A, F, E, E$_2$ & C.

Pistons: Come pre-installed (available to purchase without).

Dispenser: 380mL Manual dispense gun.

**Side x Side Cartridge Systems**

We offer a comprehensive selection of high quality, competitively-priced Side x Side cartridges for packaging and dispensing two-component materials used in automotive, construction, industrial, medical, and dental applications.

Cartridge System Outlet Options

Select from two types of Side x Side cartridge outlets:

**Open End Outlet**

- Pre-assembled with traditional nose plugs and retaining nut.
- Many can be moulded in Polypropylene (PP) or Nylon.
- See specific cartridge descriptions or contact us for material options.

**Hermetically-sealed Closed End Outlet**

- Feature a patented "pry-off" closure.
- Moulded in one operation.
- Cost Effective to open end cartridges.



**PRY-OFF CAP INSTRUCTIONS**

- Insert flat head of screwdriver into slot and pry upward
- Cap can be re-inserted to seal a partially used cartridge. To avoid cross contamination, match up the circles and squares on the cap and top of cartridge body
- For 50mL cartridges, the cap can be easily snapped off with your thumb and forefinger in the same upward motion

## 50mL Side x Side Cartridge Systems

| Part # PP | Part # Nylon | Usable Volume (mL) | Description | 1:1 | 2:1 | 4:1 | 10:1 |
|---|---|---|---|---|---|---|---|
| 101169 | 101183 | 50mL | Open End Cartridge w/retainer & plug | √ | | | |
| 101170 | 101184 | 50mL | Closed-End Cartridge w/protective cap | √ | | | |
| 101171 (PE/PBT) | | - | AF Air Free Piston | √ | | | |
| 101172 | | - | EPDM† O-ring Piston (short) | √ | | | |
| 101173 | 101185 | - | EPDM O-ring Piston (Tall) | √ | | | |
| 101174 | 101186 | - | Multi-Seal Piston w/Pre-Staged Centre Bleed Plug | √ | | | |
| 101175 | 101187 | 50mL | Open-End Cartridge w/retainer & plug | | √ | | |
| 101176 | | 50mL | Closed-End cartridge w/protective cap | | √ | | |
| 101177 | 101188 | - | EPDM O-ring Piston (Large side) | | √ | √ | √ |
| 101178 | 101189 | - | EPDM O-ring Piston (Small side) | | √ | | |
| 101179 | 101190 | 42mL | Open End Cartridge w/retainer & plug | | | √ | |
| 101180 | 101191 | - | EPDM O-ring Piston (Small side) | | | √ | |
| 101181 | 101192 | 37mL | Open-End Cartridge w/retainer & plug | | | | √ |
| 101182 | 101193 | - | EPDM O-ring Piston (Small side) | | | | √ |

## 200mL Side x Side Cartridge Systems

| Part # PP | Part # Nylon | Usable Volume (mL) | Description | 1:1 | 2:1 | 4:1 | 10:1 |
|---|---|---|---|---|---|---|---|
| 101194 | | 215mL | Open-End Cartridge w/Installed Nose Plug 3/8" Nut | √ | | | |
| 101195 | | 215mL | Open-End Cartridge w/Installed Nose Plug 1/2" Nut | √ | | | |
| 101196 | 101204 | 215mL | Closed-End Cartridge w/protective cap | √ | | | |
| 101197 (PE/PBT) | | - | AF Air Free Piston | √ | | | |
| 101198* | 101205 | - | Multi-Seal Piston w/Pre-Staged Bleed Plug | √ | | | |
| 101199 | 101206 | 215mL | Closed-End Cartridge w/protective cap | | √ | | |
| 101200* | | - | Solid Multi-Seal Piston (Small Side) | | √ | | |
| 101201* | | - | Solid Multi-Seal Piston (Large Side) | | √ | | |
| 101202* | 101207* | - | Multi-Seal Piston w/Pre-Staged Bleed Plug (Small Side) | | √ | | |
| 101203* | 101208* | - | Multi-Seal Piston w/Pre-Staged Bleed Plug (Large Side) | | √ | | |

## 300mL Side x Side Cartridge Systems

| Part # PP | Part # Nylon | Usable Volume (mL) | Description | 1:1 | 2:1 | 4:1 | 10:1 |
|---|---|---|---|---|---|---|---|
| 101209 | 101213 | 323mL | Closed-End Cartridge w/protective cap | √ | | | |
| 101210 (PE/PBT_ | | - | AF Air Free Piston | √ | | | |
| 101211* | 101214* | - | Solid Multi-Seal Piston | √ | | | |
| 101212* | 101215* | - | Multi-Seal Piston w/Pre-Staged Bleed Plug | √ | | | |

## 400mL Side x Side Cartridge Systems

| Part # PP | Part # Nylon | Usable Volume (mL) | Description | 1:1 | 2:1 | 4:1 | 10:1 |
|---|---|---|---|---|---|---|---|
| 101216 | | 406mL | Open-End Cartridge w/Installed Nose Plug 3/8" Nut | √ | | | |
| 101217 | 101221 | 406mL** | Open-End Cartridge w/Installed Nose Plug 1/2" Nut | √ | | | |
| 101218 | 101222 | 406mL | Closed-End Cartridge w/protective cap | √ | | | |
| 101219 | 101223 | - | Solid Multi-Seal Piston | √ | | | |
| 101220 | 101224 | - | Multi-Seal Piston w/Pre-Staged Bleed Plug | √ | | | |

### 600mL Side x Side Cartridge Systems

| Part # PP | Part # Nylon | Usable Volume (mL) | Description | 1:1 | 2:1 | 4:1 | 10:1 |
|---|---|---|---|---|---|---|---|
| 101225 | | 630mL | Closed-End Cartridge w/protective cap | √ | | | |
| 101226* | | - | Solid Multi-Seal Piston | √ | | | |
| 101227* | | - | Multi-Seal Piston w/Pre-Staged Bleed Plug | √ | | | |

### 1500mL Side x Side Cartridge Systems

| 101228 | | 1500mL | Closed-End Cartridge w/protective cap | √ | | | |
|---|---|---|---|---|---|---|---|
| 101229 | | - | Solid Multi-Seal Piston | √ | | | |

These multi seal pistons are available with O-rings, Contact us for details. **Max volume on 400mL Open-End is 400mL †Ethylene Propylene Diene Monomer.

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**Recommended 50mL**

Mixers Type: $E_3$ & D

Dispenser:

50mL Manual Dispenser

50mL Caulking Gun Conversion Kit

2K Equalizer

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**Recommended 200-1500mL**

Mixers Type: $A_3$, C, D, $E_1$, $E_2$ & F

Dispenser:

200-1500mL Manual Dispense Gun

400-1500mL Pneumatic Dispense Gun

400-1500mL Cordless Dispense Gun

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**Side x Side Flow Restrictors**

Our low-cost, plastic Flow Restrictor for Side x Side closed-end cartridges eliminates problems caused by low-viscosity fluids by slowing the thinner component's flow.

#101230 – Orifice size: 1.5875mm

Colour: White

#101231 – Orifice size: 2.38125mm

Colour: Black

# Cartridge Pistons



Air Free Pistons



Other 2K Pistons

Our patented AF™ pistons come complete with airtight and leak-proof seals that ensure safe shipment and a long shelf life. Upon insertion, the pistons quickly eliminate any air left between the material in the cartridge system and the piston.

**Note:** AF pistons are compatible with Side x Side cartridge sizes 50mL, 200mL, and 300mL in 1:1 ratios. Our large side AF pistons are compatible with 50mL Side x Side cartridges in ratios 2:1, 4:1, and 10:1.

Our 2K pistons also come in Solid Multi-Seal, Solid with O-ring, and Multi-Seal Pistons with a Pre-staged Centre Bleed Plug. It's important to keep in mind that the viscosity of the materials being dispensed will affect the type of piston you use. For high-viscosity materials, for example, you would select an AF piston or solid piston. For low-viscosity materials, you would select a centre bleed piston or solid bleed piston with O-ring.

**See cartridge pages for Part #'s**

| Cartridge Volumes and Piston Types | | | | |
|---|---|---|---|---|
| Volume & Type | Piston Type | | | |
| | **AF Air Free** | **Solid** | **Solid w/O-Ring** | **Centre Bleed** |
| **Side x Side 50mL** | PE/PBT | - | PE/PP/Nylon | PP / Nylon |
| **u-TAH 180mL** | - | Pre-Installed | - | - |
| **Side x Side 200mL** | PE/PBT | PP / Nylon | PP / Nylon | PP / Nylon* |
| **u-TAH 250mL** | - | Pre-Installed | - | - |
| **u-TAH 280mL** | - | Pre-Installed | - | - |
| **Side x Side 300mL** | PE/PBT | PP / Nylon | - | PP / Nylon |
| **Coaxial 380mL** | - | Pre-Installed** | - | - |
| **Side x Side400mL** | - | PP / Nylon | - | PP / Nylon* |
| **Side x Side 600mL** | - | PP | - | PP* |
| **Side x Side 1500mL** | - | PE | - | |

*Can purchase with O-ring pre-installed.

**Can purchase without pistons pre-installed.

## AF Air Free Pistons

The AF™ Air Free Piston does a superior job of venting all the air between the material and the piston. Its unique design does not require a shim to bleed the air, nor does it require a second step to insert a centre bleed plug. This piston bleeds air around the circumference of the black plug and uses the force of hitting the material to close itself in a single step.

The AF piston provides a more visible indication when the piston is completely closed, i.e. the black centre plug is flush with the top of the piston. Further, since the material construction of the AF Piston is a PE/PBT combo, it is compatible with most materials, simplifying inventory.



Opened Piston



Closed Piston

Features & Benefits

- Eliminates trapped air
- No need for shims or secondary plugging operations
- Ensures on-ratio dispensing
- Fast, fool-proof operation
- Prevents material separation
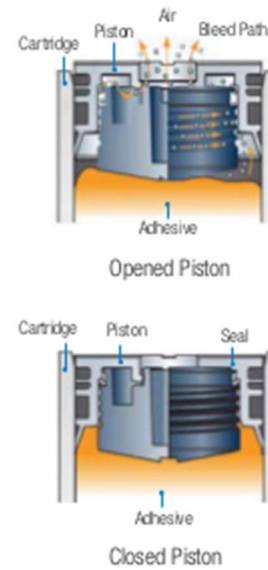
AF Air Free Pistons

| Part # | Ratio | Cartridge Type |
|--------|-------|----------------|
| 101232 | 1:1 | 50mL Side x Side |
| 101233 | 1:1 | 200-300mL Side x Side |

## Atlas 2K Piston Inserter

Atlas™ 2K Piston Inserters are a fast, convenient, and cost effective way to install AF pistons in 50mL, 200mL and 300mL Side x Side Cartridges.

Features & Benefits

- Simple to set-up and operate.
- Pistons sit correctly every time.
- Compact, space saving footprint.
- Rugged, lightweight units are easily transported.
- Conversion kit available to allow 50mL to handle 200mL cartridges and visa-versa.
- The 300mL unit can also handle 200ml cartridges.
- Designed for use with AF Air Free Pistons.

| Part # | Description |
|--------|-------------|
| 101234 | 50 mL Piston Inserter |
| 101235 | 200mL Piston Inserter |
| 101236 | 300mL Piston Inserter |

## Equalizer 2K Dispensing Tool



The pneumatically-operated Equalizer tool accurately dispenses two-component (2K) materials packaged in 50 mL 1:1, 2:1, and 4:1 ratio cartridges.

Features & Benefits

- Designed for use with Nordson EFD electro-pneumatic fluid dispensers.
- Accurate and repeatable dispensing when used with any Performus™ or Ultimus™ dispensers.
- Optional stand mount enables operators to manoeuvre the work piece with hands-free dispense.
- Able to pre-mix and down-pack 2K products into syringe barrels.
- Simple to set up and operate.
- More durable and robust design.

| Part # | Description |
|--------|-------------|
| 101237 | Standard configuration provides accurate 50mL 1:1 & 2:1 dispensing. |
| 101238 | Transfer kit allows down-packing of 2K materials. |
| 101239 | Conversion kit allows use with 4:1 cartridges. |
| 101240 | Kit universal stand mount 25-50mm. |

**2K Dispensing Guns**

These 2K dispensers are compatible for use with our 2K cartridge systems and help speed up the application of 2K adhesives. The 2K dispensers work primarily with our Side x Side cartridges, in sizes 50mL to 1500mL, and our 380mL coaxial cartridge.



50mL Manual Dispenser

When using a 50mL Side x Side 1:1, 2:1, 4:1, or 10:1 ratio cartridge, we offer an ergonomic manual dispenser for trouble-free, point-of-use dispensing.



50mL Caulking Gun Conversion Kit

The versatile caulking gun conversion kit accepts most manufacturers' 50mL cartridge systems in 1:1, 2:1, 4:1, and 10:1 ratios.



Manual Dispense Guns

The manual line of 2K dispense guns offer a portable and ergonomic option for dispensing two-component materials with a 26:1 thrust ratio.



Pneumatic Dispense Guns

Our pneumatic dispense guns use up to 120 psi (8 bar) of air pressure to dispense two-component materials with easy-to-use controls that help regulate speed.



Cordless Dispense Guns

Cordless dispense guns use an 18 Volt Lithium Ion battery and include user-friendly features to dispense two-component materials with up to 431 kg (950 lb) of force.

| Dispenser Volumes, Ratios & Types | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Volume & Type | Cartridge Ratio | | | | Cartridge Type | | | |
| | 1:1 | 2:1 | 4:1 | 10:1 | 50mL Manual Side Dispenser | Manual Dispense Gun | Pneumatic Dispense Gun | Cordless Dispense Gun |
| Side x Side 50mL | √ | √ | √ | √ | √ | - | - | - |
| Side x Side 200mL | √ | √ | - | - | - | √ | - | - |
| Side x Side 300mL | √ | - | - | - | - | √ | - | - |
| Coaxial 380mL | - | - | - | √ | - | √ | - | - |
| Side x Side 400mL | √ | - | - | - | - | √ | √ | √ |
| Side x Side 600mL | √ | - | - | - | - | √ | √ | √ |
| Side x Side 1500mL | √ | - | - | - | - | √ | √ | √ |

## 50mL Manual Dispensers

Our manual dispenser features a versatile, compact, durable, and well-balanced design providing trouble-free, point-of-use dispensing. Custom colours and distinctive labelling are available upon request. Lightweight design accepts all ratios.

Features & Benefits

- Better Ergonomics: lighter & more compact.
- Lower cost and better delivery.
- More versatile: excepts all ratios.
- Durable: Designed to eliminate cartridge cracking.

| Ratio | Part # | Description | Part # | Description |
|-------|--------|-------------------|--------|-------------|
| 1:1 | 101241 | Dispenser & Plunger | 101246 | Plunger Only |
| 2:1 | 101242 | Dispenser & Plunger | 101247 | Plunger Only |
| 4:1 | 101243 | Dispenser & Plunger | 101248 | Plunger Only |
| 10:1 | 101244 | Dispenser & Plunger | 101249 | Plunger Only |
| - | 101245 | Dispenser Only | | |

## 50mL Caulking Gun Conversion Kit

Caulking Gun Conversion Kit accepts most multi-ratio 50mL Cartridge Systems (1:1, 2:1, 4:1, and 10:1) including competitive 50mL bayonet cartridges. A different plunger is required for each.

Features & Benefits

- Versatile: Can be used with standard caulking guns.
- Practical: Great for field installations or occasional industrial use.
- Cost Effective: Ideal for sampling your adhesives.

| Ratio | Part # | Description |
|-------|--------|----------------|
| 1:1 | 101250 | Conversion Kit |
| 2:1 | 101251 | Conversion Kit |
| 4:1 | 101252 | Conversion Kit |
| 10:1 | 101253 | Conversion Kit |

## 2K Dispensing Guns



Manual



Pneumatic



Cordless

The 2K Dispensing guns offer user-friendly features and excellent quality associated with Rockingham Systems. Lightweight and durable, these tools make applying two-component materials quicker and easier.

Select From 3 convenient options:

- **Manual -** Provides portable dispensing of 2K materials with a 26:1 thrust ratio.
- **Pneumatic –** Uses air pressure up to 8.2BAR to easily dispense thick 2K materials, also an excellent tool for crack injection applications.
- **Cordless –** Intuitive design allows operators to dispense 2K materials without the need of any wiring or cumbersome hoses, can dispense with up to 431Kg of force.

### Manual Guns

| Part # | Description | Side x Side Cartridge | Weight (Kg) |
|---|---|---|---|
| 101254 | 1:1 Manual Dispenser Top Load | 160mL | 1.4 |
| 101255 | 1:1/2:1 Manual Dispenser Side Load | 200mL | 1.2 |
| 101256 | 1:1 Manual Dispenser Top Load | 300mL | 1.5 |
| 101257 | 10:1 Coaxial Manual Dispenser | 380mL | 1.2 |
| 101258 | 1:1 Manual Dispenser Side Load | 400mL | 1.3 |
| 101259 | 1:1 Manual Dispenser Top Load | 600mL | 1.8 |
| 101260 | 1:1 Manual Dispenser Top Load | 1500mL | 3.1 |

### Pneumatic Guns

| 101261 | 1:1 Pneumatic Dispenser | 400mL | 3.4 |
|---|---|---|---|
| 101262 | 1:1 Pneumatic Dispenser | 600mL | 3.9 |
| 101263 | 1:1 Pneumatic Dispenser | 1500mL | 5.2 |

### Cordless Guns

| 101264 | 1:1 Cordless Dispenser | 400mL | 4.0 |
|---|---|---|---|
| 101265 | 1:1 Cordless Dispenser | 600mL | 5.3 |
| 101266 | 1:1 Cordless Dispenser | 1500mL | 6.0 |
| 101267 | 1:1 Cordless Dispenser EU | 400mL | 4.0 |
| 101268 | 1:1 Cordless Dispenser EU | 600mL | 5.3 |
| 101269 | 1:1 Cordless Dispenser EU | 1500mL | 6.0 |
| 101270 | 18 Volt Lithium Ion Battery | - | 0.4 |
| 101271 | 18 Volt Lithium Ion Battery Charger | - | 0.6 |
| 101272 | 18 Volt Lithium Ion Battery EU Charger | - | 0.7 |

# Rockingham
### Systems

With over 25 years' experience Rockingham Systems specialize in Adhesive Dispensing Systems & Pumping, providing our services mainly in the UK, Ireland and across Europe but with a knack for striking deals globally.

Our Services include: -

- 1, 2, & 3-Component Adhesive Machinery, both manual and automatic application (with lifetime support).
- Static Mixers, Cartridges & Dispensers.
- Pumping Equipment.
- Epoxy/Paint Sprayers (both industrial and contractor).
- 2-Component paint spray systems.
- Parts, Servicing and Breakdown Call-outs for all our own systems as well as all Barkvall, Sika, Casco and Larius Systems (on-site or off).
- Consultancy & on-site training.

**Adhesive Metering (Rockingham) systems Ltd**

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