

mixers  
valves  
manifolds  
more...



meter mix / dosing



## Meter Mix / Dosing Systems



TAH is the world's leading manufacturer of both disposable plastic, and reusable metal static mixers. For over thirty years, TAH has been manufacturing static mixers, and expanding its product line to accommodate countless specialized applications. TAH is able to do this because of our expert engineering, machining capabilities, state-of-the-art injection molding facilities, and superior customer service. Modifications to the mixer outlet orifice, molding an extension to the end of a mixer for reach, and molding in different materials for tensile strength are just a few of the many special modifications we've done for our customers.

To ensure a smooth transition from mixer to dispenser, TAH provides a complete line of dispense valves for handling reactive adhesives and sealants. We recognize that maintaining valves and mixers that handle reactive resins can be a time-consuming and expensive task – a plugged valve translates into lost production, and even a partially plugged mixer results in poor product quality. In response to these specific problems, TAH's line of modular valves can be easily disassembled and thoroughly cleaned.

### Mixers



TAH offers a complete line of disposable and in-line mixers to meet your application needs. We offer disposable bell mixers to fit on meter mix dispense valves and accessories such as metal shrouds and retaining nuts to hold the mixer on the dispenser. We also carry a wide range of metal pipe mixers with either metal or plastic mix elements. These mixers typically have pipe threads on both ends for easy assembly/disassembly to the material lines.

Although we list many of our static mixers in the catalog and on our website ([www.tah.com/metermix](http://www.tah.com/metermix)), we also manufacture many other mixers with slight modifications. Some examples of modifications are:

- ▶ threaded ends
- ▶ reduced or increased outlet orifices
- ▶ different materials of construction

We suggest that if you do not find what you are looking for please consult our Technical Service or Sales Department for additional information

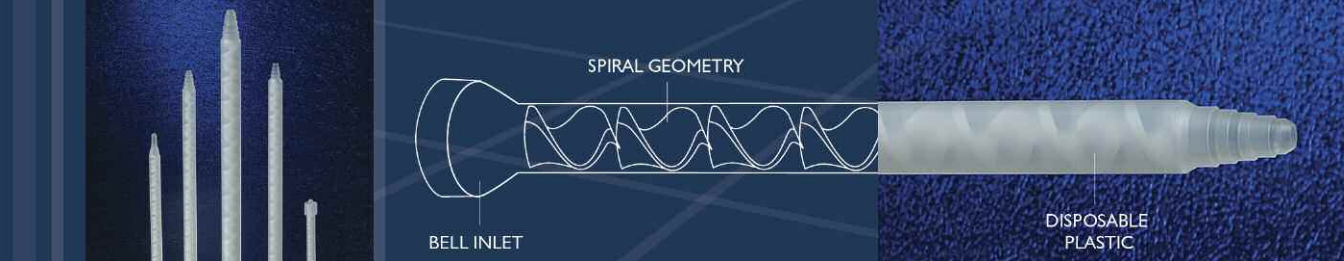
### Dispense Valves



TAH dispense valves provide ON-OFF functions, while metering of the A and B components in the proper ratio is controlled by the metering pumps. The dispensers are designed to keep the two-components separate until they enter the static mixer. This design eliminates the need for solvent flushing making clean-up easy and increases productivity. Different manifolds are offered to assist this metering process. The selection of the manifold for each application depends on the flow rate, viscosity, and volumetric ratio.

Dispensers are available in aluminum or stainless steel, manual or pneumatic, snuff-back, static or dynamic mix, and many different seal configurations depending on the adhesive/sealant formulation. This allows TAH to offer a dispenser for most any application. Please consult our Technical Service or Sales Department for additional information.





## Series 70 In-Line Stainless Steel Spiral Tube Mixer\*



### Description

The Series 70 Mixers are designed for high-pressure applications with two-component adhesives and sealants. The mixers are available in four diameters and with 15 to 48 elements. Its series of left- and right-hand "edgesealed" spiral elements are microbrazed into the length of the tube and cannot be removed. Advantages include:

- ▶ **Moderate Price:** Offers significant savings over competitive mixers
- ▶ **Streamline Geometry:** The contour of the elements ensures that the mixer flushes clean with less solvent
- ▶ **Resists Furnace Warpage:** The heavy walled tubing resists warpage during furnace cleaning and increases the life of the mixer. Maximum furnace temperature should not exceed 1250° F (676° C).

### Specification

- ▶ **Elements:** 316 Stainless Steel, non-removable
- ▶ **Housing:** 304 Stainless Steel with plain ends

### SERIES 70 SPIRAL TUBE MIXER

PART NO.	MIXING ELEMENTS	ELEMENT DIAMETER (INCH / CM)	HOUSING LENGTH (INCH / CM)	OUTSIDE DIAMETER (INCH / MM)	HOUSING PRESSURE LIMITATION (PSI@300°F / BAR@150°C)
070-317	17	0.113 / 2.87	4.88 / 12.40	0.187 / 4.75	6900 / 476
070-321	21	0.113 / 2.87	6.00 / 15.24	0.187 / 4.75	6900 / 476
070-327	27	0.113 / 2.87	7.50 / 19.05	0.187 / 4.75	6900 / 476
070-421	21	0.187 / 4.75	7.00 / 17.78	0.250 / 6.35	4200 / 290
070-427	27	0.187 / 4.75	9.25 / 23.50	0.250 / 6.35	4200 / 290
070-434	34	0.187 / 4.75	11.50 / 29.21	0.250 / 6.35	4200 / 290
070-448	48	0.187 / 4.75	13.00 / 33.02	0.250 / 6.35	4200 / 290
070-621	21	0.292 / 7.42	11.00 / 27.94	0.375 / 9.53	3600 / 248
070-627	27	0.292 / 7.42	14.00 / 35.56	0.375 / 9.53	3600 / 248
070-815	15	0.418 / 10.62	11.88 / 30.18	0.500 / 12.70	2800 / 193
070-821	21	0.418 / 10.62	16.38 / 41.61	0.500 / 12.70	2800 / 193
070-824	24	0.418 / 10.62	16.75 / 42.55	0.500 / 12.70	2800 / 193
070-832	32	0.418 / 10.62	24.75 / 62.87	0.500 / 12.70	2800 / 193

### Did You Know?

Our patented Spiral Mixers use a simple yet time-proven geometry. The elements in these mixers are 180° helical "twists" alternating in either right- or left-hand rotation. These alternating elements are joined so that their leading and trailing edges are mutually perpendicular.



### ELEMENTS



### NUMBER OF LAYERS

meter mix / dosing



## Series 85 In-Line Stainless Steel/Plastic Spiral Pipe Mixer



### Description

The Series 85 is designed for high-pressure applications. It features a sturdy metal housing with Series 120 disposable plastic mixing elements which are removable.

- ▶ Removable Mixing Elements
- ▶ Low Resin Volume in Mixer
- ▶ Strong Heavy-Walled Pipe: Resists dents and distortion

### Specification

- ▶ Elements: Acetal, removable
- ▶ Housing: 304 Stainless Steel

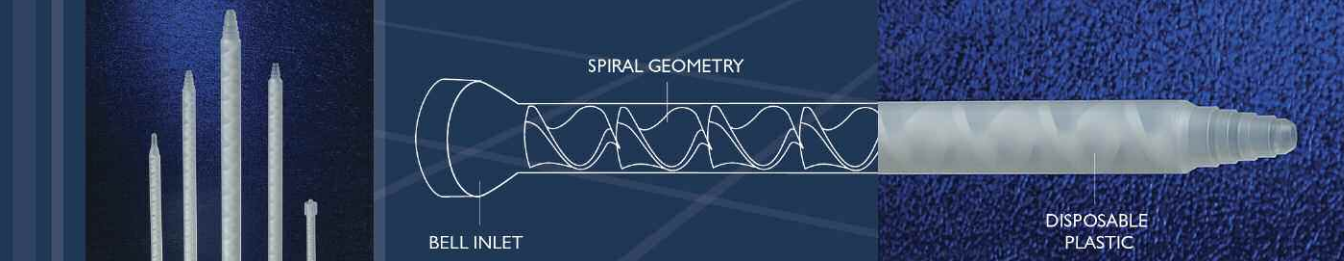
### Accessories

- ▶ Wire Brush (page 27)

### SERIES 85 SPIRAL PIPE MIXER

PART NO.	MIXING ELEMENTS	ELEMENT DIA. (INCH / MM)	HOUSING ENDS (MNPT)	HOUSING LENGTH (INCH / CM)	OUTSIDE DIA. (INCH / MM)	PRESSURE LIMIT (PSI@75°F / BAR@23°C)
084-206	6	0.094 / 2.39	Plain	1.25 / 3.18	0.127 / 3.23	5000 / 345
084-212	12	0.094 / 2.39	Plain	1.25 / 3.18	0.127 / 3.23	5000 / 345
084-218	18	0.094 / 2.39	Plain	1.83 / 4.65	0.127 / 3.23	5000 / 345
084-224	24	0.094 / 2.39	Plain	2.40 / 6.10	0.127 / 3.23	5000 / 345
084-230	30	0.094 / 2.39	Plain	2.99 / 7.59	0.127 / 3.23	5000 / 345
084-312	12	0.125 / 3.18	Plain	1.50 / 3.81	0.187 / 4.75	5800 / 400
084-318	18	0.125 / 3.18	Plain	2.20 / 5.59	0.187 / 4.75	5800 / 400
084-324	24	0.125 / 3.18	Plain	2.80 / 7.11	0.187 / 4.75	5800 / 400
084-330	30	0.125 / 3.18	Plain	3.50 / 8.89	0.187 / 4.75	5800 / 400
084-408	8	0.189 / 4.80	Plain	1.50 / 3.81	0.250 / 6.35	4300 / 297
084-416	16	0.189 / 4.80	Plain	2.70 / 6.86	0.250 / 6.35	4300 / 297
084-424	24	0.189 / 4.80	Plain	4.00 / 10.16	0.250 / 6.35	4300 / 297
084-432	32	0.189 / 4.80	Plain	5.30 / 13.46	0.250 / 6.35	4300 / 297
085-108	8	0.248 / 6.30	1/8"	2.38 / 6.05	0.405 / 10.29	7700 / 530
085-116	16	0.248 / 6.30	1/8"	4.38 / 11.13	0.405 / 10.29	7700 / 530
085-124	24	0.248 / 6.30	1/8"	6.38 / 16.21	0.405 / 10.29	7700 / 530
085-132	32	0.248 / 6.30	1/8"	8.38 / 21.29	0.405 / 10.29	7700 / 530
085-212	12	0.366 / 9.30	1/4"	4.20 / 10.67	0.540 / 13.72	8500 / 585
085-218	18	0.366 / 9.30	1/4"	6.20 / 15.75	0.540 / 13.72	8500 / 585
085-224	24	0.366 / 9.30	1/4"	8.20 / 20.83	0.540 / 13.72	8500 / 585
085-230	30	0.366 / 9.30	1/4"	10.00 / 25.40	0.540 / 13.72	8500 / 585
085-32-012	12	0.314 / 8.00	1/4"	4.10 / 10.41	0.540 / 13.72	8400 / 580
085-32-018	18	0.314 / 8.00	1/4"	6.00 / 15.24	0.540 / 13.72	8400 / 580
085-32-024	24	0.314 / 8.00	1/4"	7.70 / 19.56	0.540 / 13.72	8400 / 580
085-32-030	30	0.314 / 8.00	1/4"	9.50 / 24.13	0.540 / 13.72	8400 / 580
085-312	12	0.497 / 12.62	3/8"	5.50 / 13.97	0.675 / 17.15	7250 / 500
085-318	18	0.497 / 12.62	3/8"	8.00 / 20.32	0.675 / 17.15	7250 / 500
085-324	24	0.497 / 12.62	3/8"	10.70 / 27.18	0.675 / 17.15	7250 / 500
085-330	30	0.497 / 12.62	3/8"	13.12 / 33.32	0.675 / 17.15	7250 / 500
085-410	10	0.630 / 16.00	1/2"	5.80 / 14.73	0.840 / 21.34	7250 / 500
085-420	20	0.630 / 16.00	1/2"	11.10 / 28.19	0.840 / 21.34	7250 / 500
085-430	30	0.630 / 16.00	1/2"	16.40 / 41.66	0.840 / 21.34	7250 / 500
085-440	40	0.630 / 16.00	1/2"	21.8 / 55.37	0.840 / 21.34	7250 / 500
085-608	8	0.784 / 19.91	3/4"	5.80 / 14.73	1.050 / 26.67	6000 / 415
085-616	16	0.784 / 19.91	3/4"	11.10 / 28.19	1.050 / 26.67	6000 / 415
085-624	24	0.784 / 19.91	3/4"	16.40 / 41.66	1.050 / 26.67	6000 / 415
085-632	32	0.784 / 19.91	3/4"	21.70 / 55.12	1.050 / 26.67	6000 / 415
085-808	8	1.05 / 26.67	1"	12.0 / 30.48	1.315 / 33.40	4500 / 310
085-816	16	1.05 / 26.67	1"	23.5 / 56.69	1.315 / 33.40	4500 / 310

For the latest products from TAH, visit [www.tah.com](http://www.tah.com)



## Series 120 Disposable Mixing Elements



### Description

The Series 120 plastic spiral elements have the patented "Apple Core" cross section. The elements are injection-molded in one operation ensuring excellent quality control and low unit cost. This geometry ensures:

- ▶ Long life
- ▶ Great flow rate
- ▶ Flushes clean with less solvent

For most applications, our Acetal material is recommended. TAH also offers these elements in other plastics, such as Polypropylene and Kynar®. Contact our Technical Service or Sales Department for more information.

### Specification

- ▶ **Elements:** Acetal; Polypropylene and Kynar® are also available upon request.

#### SERIES 120 MIXING ELEMENT

PART NO.	MIXING ELEMENTS	ELEMENT DIAMETER (INCH / MM)	ELEMENT LENGTH (INCH / CM)
I21-09-08	8	0.093 / 2.36	0.77 / 1.96
I21-09-012	12	0.093 / 2.36	1.16 / 2.95
I21-006	6	0.125 / 3.18	0.65 / 1.65
I21-008	8	0.125 / 3.18	0.86 / 2.18
I21-012	12	0.125 / 3.18	1.30 / 3.30
I21-114	14	0.187 / 4.75	2.23 / 5.66
I21-116	16	0.189 / 4.80	2.56 / 6.50
I21-21-007	7	0.212 / 5.38	1.48 / 3.76
I21-21-021	21	0.212 / 5.38	4.45 / 11.30
I21-208P	8	0.248 / 6.30	2.00 / 5.08
I21-212P	12	0.248 / 6.30	3.00 / 7.62
I21-216	16	0.248 / 6.30	3.96 / 10.06
I21-220A	20	0.247 / 6.27	5.00 / 12.70
I21-224	24	0.248 / 6.30	5.94 / 15.09
I21-32-012	12	0.314 / 8.00	3.67 / 9.32
I21-306P	6	0.370 / 9.40	2.00 / 5.08
I21-312	12	0.370 / 9.40	3.90 / 9.91
I21-324	24	0.366 / 9.30	7.83 / 19.89
I21-412	12	0.497 / 12.62	5.00 / 12.70
I21-418	18	0.497 / 12.62	7.47 / 18.98
I21-510	10	0.630 / 16.00	5.42 / 13.77
I21-608	8	0.784 / 19.91	5.37 / 13.64
I21-804	4	1.025 / 26.04	5.90 / 14.99



### Did You Know?

TAH's high quality, fast delivery, competitive pricing, and superior customer service add up to the highest value for you.

meter mix / dosing



## Series 100 In-Line Stainless Steel Spiral Pipe Mixer\*



### Description

This stainless steel mixer is rugged and reliable. The interior elements are available with or without Teflon® coating. The Series 100 is modular, and each diameter is available in two lengths with either 6 or 12 elements. Two modules can be coupled together using a pipe connector.

\* Elements are removable

### Specification

- ▶ **Elements:** 316 Stainless Steel, removable
- ▶ **Housing:** 304 Stainless Steel Pipe Male Threaded Ends-NPT

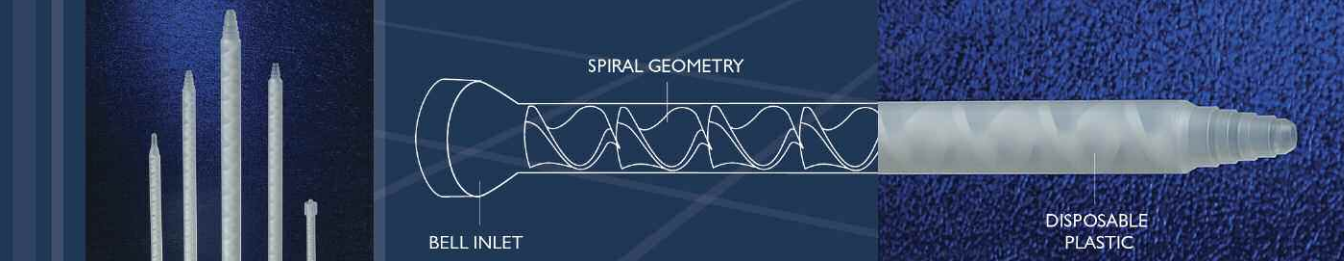
### Accessories

- ▶ Pipe Connector (opposite page)
- ▶ Wire Brush (opposite page)

### SERIES 100 SPIRAL PIPE MIXER

PART NO.	MIXING ELEMENTS	HOUSING ELEMENT COATING	ELEMENT DIA. (INCH / MM)	ELEMENT PART NO.	HOUSING PART NO.	ENDS (MNPT)	LENGTH (INCH / CM)	OUTSIDE DIA. (INCH / MM)	PRESSURE LIMIT (PSI@300°F/ BAR@150°C)
100-106	6	Stainless	0.267 / 6.78	090-106	095-106	1/8"	2.75 / 6.99	0.405 / 10.29	8750 / 600
100-112	12	Stainless	0.267 / 6.78	090-112	095-112	1/8"	5.38 / 13.67	0.405 / 10.29	8750 / 600
100-206	6	Stainless	0.363 / 9.22	090-206	095-206	1/4"	3.75 / 9.53	0.540 / 13.72	8500 / 585
100-212	12	Stainless	0.363 / 9.22	090-212	095-212	1/4"	7.00 / 17.78	0.540 / 13.72	8500 / 585
100-306	6	Stainless	0.494 / 12.55	090-306	095-306	3/8"	5.00 / 12.70	0.675 / 17.15	7250 / 500
100-312	12	Stainless	0.494 / 12.55	090-312	095-312	3/8"	9.50 / 24.13	0.675 / 17.15	7250 / 500
100-406	6	Stainless	0.623 / 15.83	090-406	095-406	1/2"	5.75 / 14.61	0.840 / 21.34	7250 / 500
100-412	12	Stainless	0.623 / 15.83	090-412	095-412	1/2"	11.00 / 27.94	0.840 / 21.34	7250 / 500
100-606	6	Stainless	0.779 / 19.79	090-606	095-606	3/4"	7.75 / 19.69	1.050 / 26.67	6000 / 415
100-612	12	Stainless	0.779 / 19.79	090-612	095-612	3/4"	14.75 / 37.47	1.050 / 26.67	6000 / 415
100-806	6	Stainless	1.032 / 26.21	090-806	095-806	1"	9.50 / 24.13	1.315 / 33.40	4500 / 310
100-812	12	Stainless	1.032 / 26.21	090-812	095-812	1"	18.50 / 46.99	1.315 / 33.40	4500 / 310
101-106	6	Stainless	1.350 / 34.29	091-106	096-106	1-1/4"	12.5 / 31.75	1.660 / 42.16	4300 / 296
101-112	12	Stainless	1.350 / 34.29	091-112	096-112	1-1/4"	24.25 / 61.60	1.660 / 42.16	4300 / 296
101-206	6	Stainless	1.580 / 40.13	091-206	096-206	1-1/2"	14.00 / 35.56	1.900 / 48.26	3000 / 207
101-212	12	Stainless	1.580 / 40.13	091-212	096-212	1-1/2"	27.25 / 69.22	1.900 / 48.26	3000 / 207
101-606	6	Stainless	2.035 / 51.69	091-606	096-606	2"	17.50 / 44.45	2.375 / 60.33	2500 / 170
101-612	12	Stainless	2.035 / 51.69	091-612	096-612	2"	34.50 / 87.63	2.375 / 60.33	2500 / 170
102-106	6	Teflon®	0.267 / 6.78	092-106	095-106	1/8"	2.75 / 6.99	0.405 / 10.29	8750 / 600
102-112	12	Teflon®	0.267 / 6.78	092-112	095-112	1/8"	5.38 / 13.67	0.405 / 10.29	8750 / 600
102-206	6	Teflon®	0.363 / 9.22	092-206	095-206	1/4"	3.75 / 9.53	0.540 / 13.72	8500 / 585
102-212	12	Teflon®	0.363 / 9.22	092-212	095-212	1/4"	7.00 / 17.78	0.540 / 13.72	8500 / 585
102-306	6	Teflon®	0.494 / 12.55	092-306	095-306	3/8"	5.00 / 12.70	0.675 / 17.15	7250 / 500
102-312	12	Teflon®	0.494 / 12.55	092-312	095-312	3/8"	9.50 / 24.13	0.675 / 17.15	7250 / 500
102-406	6	Teflon®	0.623 / 15.83	092-406	095-406	1/2"	5.75 / 14.61	0.840 / 21.34	7250 / 500
102-412	12	Teflon®	0.623 / 15.83	092-412	095-412	1/2"	11.00 / 27.94	0.840 / 21.34	7250 / 500
102-606	6	Teflon®	0.779 / 19.79	092-606	095-606	3/4"	7.75 / 19.69	1.050 / 26.67	6000 / 415
102-612	12	Teflon®	0.779 / 19.79	092-612	095-612	3/4"	14.75 / 37.47	1.050 / 26.67	6000 / 415
102-806	6	Teflon®	1.032 / 26.21	092-806	095-806	1"	9.50 / 24.13	1.315 / 33.40	4500 / 310
102-812	12	Teflon®	1.032 / 26.21	092-812	095-812	1"	18.50 / 46.99	1.315 / 33.40	4500 / 310
103-206	6	Teflon®	1.580 / 40.13	093-206	096-206	1-1/2"	14.00 / 35.56	1.900 / 48.26	3000 / 207
103-212	12	Teflon®	1.580 / 40.13	093-212	096-212	1-1/2"	27.25 / 69.22	1.900 / 48.26	3000 / 207
103-606	6	Teflon®	2.035 / 51.69	093-606	096-606	2"	17.50 / 44.45	2.375 / 60.33	2500 / 170
103-612	12	Teflon®	2.035 / 51.69	093-612	096-612	2"	34.50 / 87.63	2.375 / 60.33	2500 / 170

**2-K Made Simple: Package. Mix. Dispense.**



## Pipe Connector



### Description

Series 85 and 100 mixers can be joined together for extending mixing using pipe connectors. Contact TAH's Technical Service or Sales Department for more information

### Mixer Applications

- ▶ Series 85
- ▶ Series 100

#### SERIES 85 AND 100 PIPE CONNECTORS

PART NO.	MATERIAL	THREADS
I08-015C	316 Stainless Steel	1/8" Female NPT
I08-025C	316 Stainless Steel	1/4" Female NPT
I08-035C	316 Stainless Steel	3/8" Female NPT
I08-036C	Carbon Steel	3/8" Female NPT
I08-045C	316 Stainless Steel	1/2" Female NPT
I08-046C	Carbon Steel	1/2" Female NPT
I08-065C	316 Stainless Steel	3/4" Female NPT
I08-066C	Carbon Steel	3/4" Female NPT
I08-085C	316 Stainless Steel	1" Female NPT
I08-086C	Carbon Steel	1" Female NPT

## Wire Brush



### Description

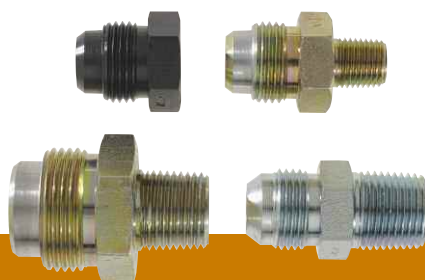
TAH's in-line spiral pipe mixers can be removed for routine maintenance, but a residue usually remains on the inside of the pipe. The residue is easily removed with an optional wire brush.

### Mixer Applications

- ▶ Series 85
- ▶ Series 100

#### SERIES 85, 100 WIRE BRUSH

PART NO.	PIPE OD (INCH / MM)	LENGTH (INCH / CM)
I09-106WB	0.405 / 10.29	5.0 / 12.7
I09-112WB	0.405 / 10.29	8.0 / 20.3
I09-206WB	0.540 / 13.72	6.0 / 15.2
I09-212WB	0.540 / 13.72	9.0 / 22.9
I09-306WB	0.675 / 17.15	7.0 / 17.8
I09-312WB	0.675 / 17.15	12.0 / 30.5
I09-406WB	0.840 / 21.34	8.0 / 20.3
I09-412WB	0.840 / 21.34	13.0 / 33.0
I09-606WB	1.050 / 26.67	10.0 / 25.4
I09-612WB	1.050 / 26.67	16.0 / 40.6
I09-806WB	1.315 / 33.40	12.0 / 30.5
I09-812WB	1.315 / 33.40	21.0 / 53.3



**For Pipe Adapters  
see page 33**



## Series 140 Disposable Plastic Tube Mixer



### Description

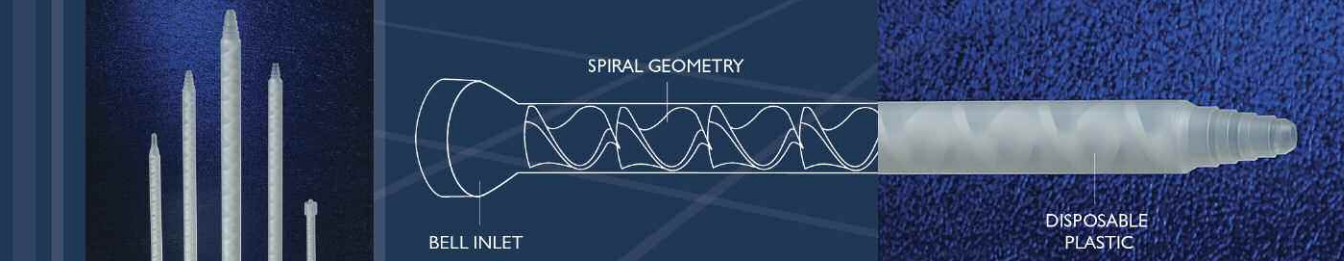
This all-plastic assembly is ideal for messy or short pot life adhesives. Its low cost allows disposal of the mixer instead of purging or burning. The housing is transparent, so the operator can inspect the condition of the mixer. With the interior mixing elements molded of Acetal (polymer coated cellulose fiber), it has the toughness and chemical resistance to be completely inert to all common solvents. Maximum Service temperature is 250° F (121° C).

### Specification

- ▶ **Elements:** Acetal, non-removable
- ▶ **Housing:** Nylon or nylon with brass threaded ends

### SERIES 140 MIXER

PART NO.	MIXING ELEMENTS	ELEMENT DIA. (INCH / MM)	HOUSING ENDS (MNPT)	HOUSING LENGTH (INCH / CM)	OUTSIDE DIA. (INCH / MM)	PRESSURE LIMIT (PSI@75°F / BAR@30°C)
140-212	12	0.094 / 2.39	Plain	1.50 / 3.81	0.187 / 4.75	940 / 65
140-218	18	0.094 / 2.39	Plain	2.10 / 5.33	0.187 / 4.75	940 / 65
140-224	24	0.094 / 2.39	Plain	2.65 / 6.74	0.187 / 4.75	940 / 65
140-230	30	0.094 / 2.39	Plain	3.25 / 8.26	0.187 / 4.75	940 / 65
140-312	12	0.125 / 3.18	Plain	1.50 / 3.81	0.187 / 4.75	580 / 40
140-318	18	0.125 / 3.18	Plain	2.20 / 3.81	0.187 / 4.75	580 / 40
140-324	24	0.125 / 3.18	Plain	2.80 / 5.59	0.187 / 4.75	580 / 40
140-330	30	0.125 / 3.18	Plain	3.50 / 8.89	0.187 / 4.75	580 / 40
140-360	60	0.125 / 3.18	Plain	7.00 / 17.78	0.187 / 4.75	580 / 40
140-408	8	0.189 / 4.80	Plain	1.50 / 3.81	0.250 / 6.35	430 / 30
140-416	16	0.189 / 4.80	Plain	2.80 / 7.11	0.250 / 6.35	430 / 30
140-424	24	0.189 / 4.80	Plain	4.10 / 10.41	0.250 / 6.35	430 / 30
140-432	32	0.189 / 4.80	Plain	5.40 / 13.72	0.250 / 6.35	430 / 30
140-608	8	0.248 / 6.30	Plain	2.50 / 6.35	0.375 / 9.53	600 / 41
140-616	16	0.248 / 6.30	Plain	4.50 / 11.43	0.375 / 9.53	600 / 41
140-624	24	0.248 / 6.30	Plain	6.50 / 16.51	0.375 / 9.53	600 / 41
140-632	32	0.248 / 6.30	Plain	8.50 / 21.59	0.375 / 9.53	600 / 41
140-640	40	0.248 / 6.30	Plain	10.5 / 26.67	0.375 / 9.53	600 / 41
140-648	48	0.248 / 6.30	Plain	12.5 / 21.59	0.375 / 9.53	600 / 41
140-656	56	0.248 / 6.30	Plain	14.5 / 21.59	0.375 / 9.53	600 / 41
140-812	12	0.367 / 9.32	Plain	4.4 / 11.18	0.500 / 12.70	460 / 32
140-818	18	0.367 / 9.32	Plain	6.4 / 16.26	0.500 / 12.70	460 / 32
140-824	24	0.367 / 9.32	Plain	8.4 / 21.34	0.500 / 12.70	460 / 32
140-830	30	0.367 / 9.32	Plain	10.4 / 26.42	0.500 / 12.70	460 / 32
140-836	36	0.367 / 9.32	Plain	12.4 / 31.50	0.500 / 12.70	460 / 32
140-842	42	0.367 / 9.32	Plain	14.40 / 36.58	0.500 / 12.70	460 / 32
145-712	12	0.314 / 8.00	1/4"	7.10 / 18.03	0.437 / 11.10	550 / 38
145-718	18	0.314 / 8.00	1/4"	9.10 / 23.11	0.437 / 11.10	550 / 38
145-724	24	0.314 / 8.00	1/4"	10.70 / 27.18	0.437 / 11.10	550 / 38
145-730	30	0.314 / 8.00	1/4"	12.70 / 32.26	0.437 / 11.10	550 / 38
145-812	12	0.370 / 9.40	1/4"	7.50 / 19.05	0.500 / 12.70	460 / 32
145-818	18	0.370 / 9.40	1/4"	9.60 / 24.38	0.500 / 12.70	460 / 32
145-824	24	0.370 / 9.40	1/4"	11.50 / 29.21	0.500 / 12.70	460 / 32
145-830	30	0.370 / 9.40	1/4"	13.50 / 34.29	0.500 / 12.70	460 / 32
146-212	12	0.497 / 12.62	3/8"	8.50 / 21.59	0.630 / 16.00	350 / 24
146-218	18	0.497 / 12.62	3/8"	11.10 / 28.19	0.630 / 16.00	350 / 24



SERIES 140 MIXER, CONT.						
PART NO.	MIXING ELEMENTS	ELEMENT DIA. (INCH / MM)	HOUSING ENDS (MNPT)	HOUSING LENGTH (INCH / CM)	OUTSIDE DIA. (INCH / MM)	PRESSURE LIMIT (PSI@75°F / BAR@30°C)
146-224	24	0.497 / 12.62	3/8"	13.50 / 34.29	0.630 / 16.00	350 / 24
146-230	30	0.497 / 12.62	3/8"	16.00 / 40.64	0.630 / 16.00	350 / 24
146-410	10	0.630 / 16.00	1/2"	9.40 / 23.88	0.750 / 19.05	300 / 21
146-420	20	0.630 / 16.00	1/2"	14.40 / 36.58	0.750 / 19.05	300 / 21
146-425	25	0.630 / 16.00	1/2"	16.70 / 42.42	0.750 / 19.05	300 / 21
146-430	30	0.630 / 16.00	1/2"	19.70 / 50.04	0.750 / 19.05	300 / 21
146-435	35	0.630 / 16.00	1/2"	22.20 / 56.39	0.750 / 19.05	300 / 21
146-608	8	0.784 / 19.91	3/4"	10.00 / 25.40	0.920 / 23.37	240 / 17
146-616	16	0.784 / 19.91	3/4"	15.10 / 38.35	0.920 / 23.37	240 / 17
146-624	24	0.784 / 19.91	3/4"	20.40 / 51.82	0.920 / 23.37	240 / 17
146-632	32	0.784 / 19.91	3/4"	25.60 / 65.02	0.920 / 23.37	240 / 17

## Series 141 Disposable Plastic Frother Mixer



### Description

The Series 141 Mixers are intended for urethane foam applications. Based on test results which showed that mixed foam exits the elements in two streams, TAH extended the tube length after the elements. This empty extension eliminates any material separation.

### Specification

- ▶ **Elements:** Acetal (161 & 141), Polypropylene (241)
- ▶ **Housing:** Nylon (141 & 241), Polypropylene (161)

### Accessories

- ▶ Manifold (page 33)
- ▶ Retaining Nut (page 35)

### SERIES 141 FROTHER MIXER

PART NO.	MIXING ELEMENTS	FLOW RATE (PPM)	ELEMENT DIAMETER (INCH / MM)	HOUSING LENGTH (INCH / CM)	OUTSIDE DIAMETER (INCH / MM)
161-224FFR	24	15	0.50 / 12.70	13.2 / 33.53	0.67 / 17.02
141-510FFR-40	10	30	0.64 / 16.23	40.0 / 101.60	0.75 / 19.05
141-520FFR	20	30	0.64 / 16.23	24.0 / 60.96	0.75 / 19.05
241-510FFR	10	30	0.64 / 16.23	15.0 / 38.10	0.75 / 19.05
141-616FFR	16	60	0.79 / 20.07	28.0 / 71.12	0.93 / 23.62
141-616FFR-40	16	60	0.79 / 20.07	40.0 / 101.60	0.93 / 23.62



### ISO 9001:2000 Certified Quality Control

We continue to improve our procedures to provide you with the highest quality products and service.

meter mix / dosing



## Series I60 Disposable Plastic Spiral Bell Mixer



### Description

With conventional meter/mix manifolds the reactive materials meet within the manifold before the mixer. If the materials are allowed to gel the manifold will plug and must be disassembled. This can be a time-consuming and expensive task. The Series I60 eliminates this problem. The mixing nozzle has an oversized bell inlet. Manifolds and valves separately port the A and B materials directly into the mixer. Cleanup simply involves removing the mixer and wiping the manifold face clean. A metal jacket is recommended if the working pressure inside the mixing nozzle exceeds 150 psi (10 bar).

Some competitor mixing nozzles have a smaller inlet bell. TAH offers plastic sleeves which press fit into the standard Series I60 bell to convert our mixers to their size.

### Specification

- ▶ **Element:** Acetal
- ▶ **Housing:** Polypropylene

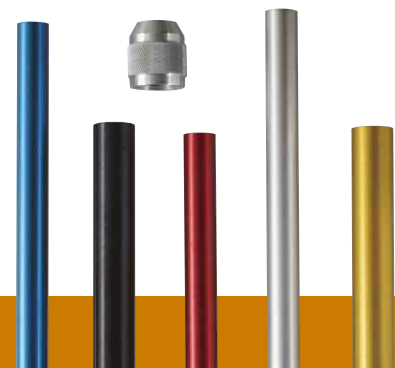
### Accessories

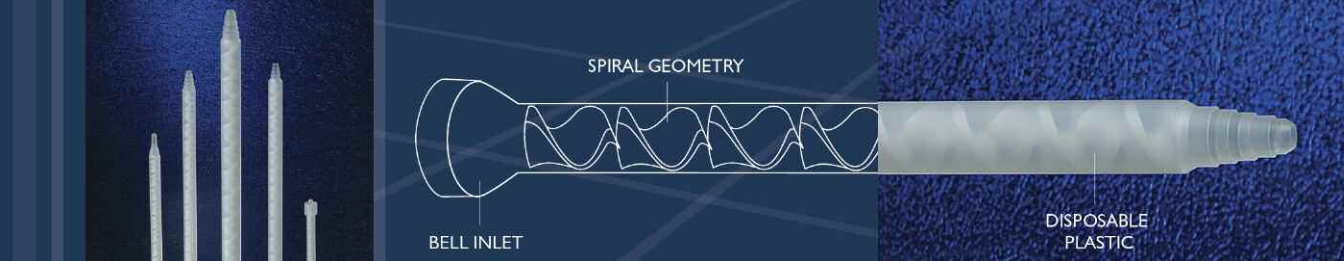
- ▶ Bell Inlet Sleeve (page 32)
- ▶ Luer Lok Adapter (page 32)
- ▶ Luer Needle (page 32)
- ▶ Manifold (page 33)
- ▶ One-Piece Metal Jacket (page 34)
- ▶ Ratio Check Cap and Night Cap (page 35)
- ▶ Retaining Nut (page 35)
- ▶ Support Washer (page 35)

### SERIES I60 MIXER

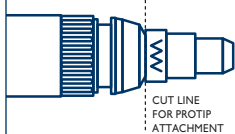
PART NO.	MIXING ELEMENTS	ELEMENT DIAMETER (INCH / MM)	HOUSING LENGTH (INCH / CM)	OUTSIDE DIAMETER (INCH / MM)	OUTLET TIP ORIFICE (INCH / MM)	OUTLET TIP STYLE	PRESSURE LIMIT (PSI@75°F / BAR@23°C)
I60-408	8	0.189 / 4.80	2.62 / 6.65	0.300 / 7.62	0.07 / 1.78	Slip Luer	500 / 34
I60-416	16	0.189 / 4.80	3.90 / 9.91	0.300 / 7.62	0.07 / 1.78	Slip Luer	500 / 34
I60-424	24	0.189 / 4.80	5.18 / 13.16	0.300 / 7.62	0.07 / 1.78	Slip Luer	500 / 34
I60-432	32	0.189 / 4.80	6.48 / 16.46	0.300 / 7.62	0.07 / 1.78	Slip Luer	500 / 34
I60-448	48	0.189 / 4.80	9.04 / 22.96	0.300 / 7.62	0.07 / 1.78	Slip Luer	500 / 34
I60-608SH	8	0.248 / 6.30	3.56 / 9.04	0.370 / 9.40	0.09 / 2.29	Slip Luer	360 / 25
I60-616	16	0.248 / 6.30	5.46 / 13.87	0.370 / 9.40	0.09 / 2.29	Slip Luer	360 / 25
I60-624	24	0.248 / 6.30	7.46 / 18.95	0.370 / 9.40	0.09 / 2.29	Slip Luer	360 / 25
I60-632	32	0.248 / 6.30	9.49 / 24.10	0.370 / 9.40	0.09 / 2.29	Slip Luer	360 / 25
I60-648	48	0.248 / 6.30	13.14 / 33.38	0.370 / 9.40	0.09 / 2.29	Slip Luer	360 / 25
I60-718	18	0.314 / 8.00	6.96 / 17.68	0.461 / 11.71	0.10 / 2.54	Stepped	330 / 23
I60-724	24	0.314 / 8.00	8.84 / 22.45	0.461 / 11.71	0.10 / 2.54	Stepped	330 / 23
I60-732	32	0.314 / 8.00	11.44 / 29.06	0.461 / 11.71	0.10 / 2.54	Stepped	330 / 23
I60-812	12	0.366 / 9.30	5.48 / 13.92	0.510 / 12.95	0.12 / 3.05	Stepped	300 / 21
I60-818	18	0.366 / 9.30	7.28 / 18.49	0.510 / 12.95	0.12 / 3.05	Stepped	300 / 21
I60-824	24	0.366 / 9.30	9.15 / 23.24	0.510 / 12.95	0.12 / 3.05	Stepped	300 / 21
I60-830	30	0.366 / 9.30	11.24 / 28.55	0.510 / 12.95	0.12 / 3.05	Stepped	300 / 21
I60-840	40	0.366 / 9.30	14.14 / 35.92	0.510 / 12.95	0.12 / 3.05	Stepped	300 / 21
I60-860	60	0.366 / 9.30	22.4 / 56.90	0.510 / 12.95	0.12 / 3.05	Stepped	300 / 21
I60-864	64	0.366 / 9.30	24.0 / 60.96	0.510 / 12.95	0.12 / 3.05	Stepped	300 / 21
I61-212	12	0.497 / 12.65	6.71 / 17.04	0.660 / 16.76	0.18 / 4.57	Stepped	270 / 19
I61-218	18	0.497 / 12.65	9.08 / 23.06	0.660 / 16.76	0.18 / 4.57	Stepped	270 / 19
I61-224	24	0.497 / 12.65	11.60 / 29.46	0.660 / 16.76	0.18 / 4.57	Stepped	270 / 19
I61-230	30	0.497 / 12.65	14.09 / 35.79	0.660 / 16.76	0.18 / 4.57	Stepped	270 / 19
I61-236	36	0.497 / 12.65	16.63 / 42.24	0.660 / 16.76	0.18 / 4.57	Stepped	270 / 19

**You can use our One-Piece Metal Jackets with our Series I60 Mixers for extra stability**





## Series 160A Disposable Plastic Spiral Bell Mixer for ProTips™



### Description

The Series 160A mixing nozzle accepts ProTips and, thus, combines the design benefits of the disposable Series 160 static mixer with the advantage of flexibility in adhesive dispensing.

These mixers have the TAH "A" tip which allows the user to either mix and apply adhesive in a single small bead or, by attaching the TAH ProTip, dispense material in a wide variety of widths. A metal jacket is recommended when the working pressure inside the nozzle exceeds 150 psi (10 bar).

### Specification

- ▶ **Element:** Acetal
- ▶ **Housing:** Polypropylene

### Accessories

- ▶ Bell Inlet (page 32)
- ▶ Manifold (page 33)
- ▶ One-Piece Metal Jacket (page 34)
- ▶ Series 163A ProTip™ Dispensing Tip (page 19)
- ▶ Retaining Nut (page 35)
- ▶ Support Washer (page 35)

### SERIES 160A MIXER

PART NO.	MIXING ELEMENTS	ELEMENT DIAMETER (INCH / MM)	HOUSING LENGTH (INCH / CM)	OUTSIDE DIAMETER (INCH / MM)	OUTLET TIP ORIFICE (INCH / MM)	OUTLET TIP STYLE	PRESSURE LIMIT (PSI@75°F / BAR@23°C)
160A-718	18	0.314 / 8.00	6.96 / 17.68	0.461 / 11.71	0.10 / 2.54	ProTip™	330 / 23
160A-724	24	0.314 / 8.00	8.84 / 22.45	0.461 / 11.71	0.10 / 2.54	ProTip™	330 / 23
160A-818	18	0.366 / 9.30	7.28 / 18.49	0.510 / 12.95	0.12 / 3.05	ProTip™	300 / 21
160A-824	24	0.366 / 9.30	9.15 / 23.24	0.510 / 12.95	0.12 / 3.05	ProTip™	300 / 21
161A-218	18	0.497 / 12.65	9.08 / 23.06	0.660 / 16.76	0.18 / 4.57	ProTip™	270 / 19
161A-224	24	0.497 / 12.65	11.60 / 24.96	0.660 / 16.76	0.18 / 4.57	ProTip™	270 / 19

## Series 162A Disposable Plastic High Flow Mixer



### Description

Intended for high flow rate meter mix applications, this series contains our largest disposable mixing elements—0.784 inches in diameter with 16 to 48 elements. The rugged Nylon housing has an oversized bell inlet. The downstream outlet is designed to accept the Pro Tip™ accessories or use the 1/2" NPS male thread to attach extensions or other types of accessories.

### Specification

- ▶ **Element:** Acetal
- ▶ **Housing:** Nylon

### Accessories

- ▶ Manifold (page 33)
- ▶ One-Piece Metal Jacket (consult Technical Service)
- ▶ Series 163A ProTip™ Dispensing Tip (page 19)
- ▶ Retaining Nut (page 35)

### SERIES 162A MIXERS

PART NO.	MIXING ELEMENTS	ELEMENT DIAMETER (INCH / MM)	HOUSING LENGTH (INCH / CM)	OUTSIDE DIAMETER (INCH / MM)	PRESSURE LIMIT (PSI@75°F / BAR@23°C)
162A-616	16	0.784 / 19.9	12.5 / 31.7	0.98 / 24.9	580 / 39
162A-623	23	0.784 / 19.9	17.0 / 43.2	0.98 / 24.9	580 / 39
162A-632	32	0.784 / 19.9	24.5 / 62.2	0.98 / 24.9	580 / 39
162A-639	39	0.784 / 19.9	30.3 / 77.0	0.98 / 24.9	580 / 39
162A-648	48	0.784 / 19.9	36.4 / 92.5	0.98 / 24.9	580 / 39

For the latest products from TAH, visit [www.tah.com](http://www.tah.com)



## Bell Inlet Sleeve



### Description

TAH offers plastic inlet sleeves which press fit into the standard Series 160 Bell Mixer. These sleeves are used to convert our mixers to match competitor mixing nozzles which have a smaller inlet bell. Order Part. No. 160-SLV.

## LuerLok™ Adapter and Luer Needle



### Luer Lok Adapters

Luer Lok Adapters (locking hubs) are used for attaching needles to mixers (see blue nut in photo). When ordering, simply add the suffix "LL" to the mixer part number (e.g. 160-818LL). To attach syringes to mixers, order female-to-male Luer Lok Adapters by adding "LL-FH" to the mixer part number (e.g. 160-818LL-FH). If you want to use a metal jacket with the 160-4XX and 160-6XX mixers, order the mixer and the Luer Lok fitting as two separate items unassembled. Consult our Technical Service or Sales Department for details.

### Luer Needles

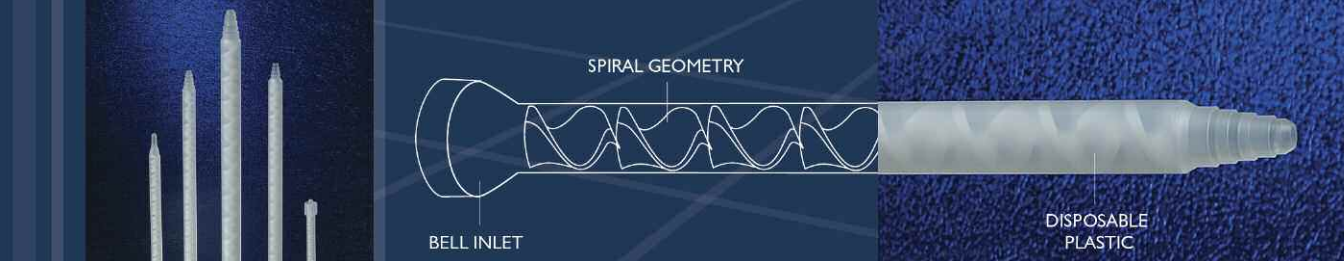
TAH offers two types of Luer Needles—standard and tapered. The standard needle features stainless steel tubing with a burr-free blunt end and plastic hub. The tapered needle is a one-piece, plastic molded part. The needles are color-coded and pre-packaged with 50 needles per bag.

### SERIES 160, 260 LUER NEEDLES

PART NO.	DESCRIPTION	ORIFICE DIAMETER (INCH / MM)	COLOR
205-TK	Test Kit	Assorted Diameters	Assorted
205-14-1/2	Standard	0.063 / 1.60	White
205-14-TT	Tapered	0.063 / 1.60	Clear
205-16-1/2	Standard	0.047 / 1.19	Purple
205-16-TT	Tapered	0.047 / 1.19	Grey
205-18-1/2	Standard	0.033 / 0.84	Pink
205-18-TT	Tapered	0.033 / 0.84	Green
205-20-1/2	Standard	0.023 / 0.58	Yellow



**Bell Inlet Sleeve**



## Manifold



### Description

TAH's two-component manifolds separately port the resin and hardener into the mixing nozzle. Cleanup simply involves wiping the manifold face after the nozzle has been removed. To prevent back flow or cross contamination of reactive material, in-line check valves are available.

### Mixer Applications

- ▶ Series 160
- ▶ Series 160A
- ▶ Series 162A

#### SERIES 160 MANIFOLD

PART NO.	DESCRIPTION	INLET	OUTLET	RATIO	SOLVENT PORTS	MIXING NOZZLE
175-411M	Aluminum Block Manifold	(2) 1/8" FNPT	7/8 - 14	1:1	–	Series 160, Series 160A
175-412M	Aluminum Block Manifold	(2) 1/8" FNPT	7/8 - 14	1:1	1/4" FNPT	Series 160, Series 160A
175-421M	Aluminum Block Manifold	(2) 1/4" FNPT	7/8 - 14	1:1	–	Series 160, Series 160A
175-422M	Aluminum Block Manifold	(2) 1/4" FNPT	7/8 - 14	1:1	1/4" FNPT	Series 160, Series 160A
175-43M	Alum. Hand-Held Manifold	(2) 1/8" FNPT	7/8 - 14	1:1	–	Series 160, Series 160A
175-461M	Alum. Block Manifold	(2) 1/2" FNPT	1-5/16 - 12 UN	1:1	–	Series 162A
175-462M	Alum. Block Manifold	(2) 1/2" FNPT	1-5/16 - 12UN	1:1	1/4" FNPT	Series 162A
200-51CV	Stainless Steel Check Valve	1/8" MNPT	1/8" MNPT	–	–	Series 160, Series 160A
200-52CV	Stainless Steel Check Valve	1/4" MNPT	1/4" MNPT	–	–	Series 160, Series 160A
200-61CV	Brass Check Valve	1/8" MNPT	1/8" MNPT	–	–	Series 160, Series 160A
200-62CV	Brass Check Valve	1/4" MNPT	1/4" MNPT	–	–	Series 160, Series 160A

## Pipe Adapter



### Description

Series 100, 160, 160A and 162A mixer nozzles can be connected to some pre-existing manifolds or valves using pipe adapters or connectors. Contact TAH's Technical Service or Sales Department for more information on these attachments with regard to your specific needs.

### Mixer Applications

- For 170 Adapters:
- ▶ Series 160
  - ▶ Series 160A
- For 172 Adapters:
- ▶ Series 162A

#### SERIES 160, 160A, 162A PIPE ADAPTERS

PART NO.	MATERIAL	INLET
170-31A	Carbon Steel	1 1/16" Female NPT (for Venus Gun)
170-32A	Carbon Steel	1/4" Male NPT
170-33A	Carbon Steel	3/8" Male NPT
170-34A	Carbon Steel	1/2" Male NPT
170-36A	Carbon Steel	3/4" Male NPT
172-31A	Aluminum	7/8" - 14 Female for TAH Valves
172-34A	Carbon Steel	1/2" Male NPT
172-36A	Carbon Steel	3/4" Male NPT
172-38A	Carbon Steel	1" Male NPT

**2-K Made Simple:  
Package. Mix. Dispense.**



## One-Piece Metal Jacket



### SERIES 160, 160A, 180A ONE-PIECE JACKET

PART NO.	THREAD	DESCRIPTION	MIXING NOZZLE
165-424J-A-14	TAH Standard 7/8 - 14	Alum., Robotic	160-424
165-432J-A-14	TAH Standard 7/8 - 14	Alum., Robotic	160-432
165-616JL	TAH Standard 7/8 - 14	Aluminum	160-616
165-616JL-9	Alternative 7/8 - 9	Aluminum	160-616
165-624J-A-9	Alternative 7/8 - 9	Alum., Robotic	160-624
165-624J-A-14	TAH Standard 7/8 - 14	Alum., Robotic	160-624
165-624JL	TAH Standard 7/8 - 14	Aluminum	160-624
165-624JL-9	Alternative 7/8 - 9	Aluminum	160-624
165-632JL	TAH Standard 7/8 - 14	Aluminum	160-632
165-632JL-9	Alternative 7/8 - 9	Aluminum	160-632
165-648JL	TAH Standard 7/8 - 14	Aluminum	160-648
165-648JL-9	Alternative 7/8 - 9	Aluminum	160-648
165-718JL	TAH Standard 7/8 - 14	Aluminum	160-718
165-718JL-9	Alternative 7/8 - 9	Aluminum	160-718
165-724JL	TAH Standard 7/8 - 14	Aluminum	160-724
165-724JL-9	Alternative 7/8 - 9	Aluminum	160-724
165-732JL	TAH Standard 7/8 - 14	Aluminum	160-732
165-732JL-9	Alternative 7/8 - 9	Aluminum	160-732
165-818JL	TAH Standard 7/8 - 14	Aluminum	160-818
165-818JL-9	Alternative 7/8 - 9	Aluminum	160-818
165-824JL	TAH Standard 7/8 - 14	Aluminum	160-824
165-824JL-9	Alternative 7/8 - 9	Aluminum	160-824
165-824J-A-14	TAH Standard 7/8 - 14	Alum., Robotic	160-824
165-830JL	TAH Standard 7/8 - 14	Aluminum	160-830
165-830JL-9	Alternative 7/8 - 9	Aluminum	160-830
165-830J-A-14	TAH Standard 7/8 - 14	Alum., Robotic	160-830
165-840JL	TAH Standard 7/8 - 14	Aluminum	160-840
165-840JL-9	Alternative 7/8 - 9	Aluminum	160-840
165A-818J-A-14	TAH Standard 7/8 - 14	Alum., Robotic	160A-818
165A-818J-A-9	Alternative 7/8 - 9	Alum., Robotic	160A-818
165A-818JL	TAH Standard 7/8 - 14	Aluminum	160A-818
165A-818JL-9	Alternative 7/8 - 9	Aluminum	160A-818
165A-824J-A-14	TAH Standard 7/8 - 14	Alum., Robotic	160A-824
165A-824J-A-9	Alternative 7/8 - 9	Alum., Robotic	160A-824
165A-824JL	TAH Standard 7/8 - 14	Aluminum	160A-824
165A-824JL-9	Alternative 7/8 - 9	Aluminum	160A-824
166-218J	TAH Standard 7/8 - 14	CS Nut / SS Jacket	161-218, 161A-218
166-218J-9	Alternative 7/8 - 9	CS Nut / SS Jacket	161-218, 161A-218
166-224J	TAH Standard 7/8 - 14	CS Nut / SS Jacket	161-224, 161A-224
166-224J-9	Alternative 7/8 - 9	CS Nut / SS Jacket	161-224, 161A-224
166-224J-A-14	TAH Standard 7/8 - 14	Alum., Robotic	161-224
166-230J	TAH Standard 7/8 - 14	CS Nut / SS Jacket	161-230
166-230J-9	Alternative 7/8 - 9	CS Nut / SS Jacket	161-230
166-236J	TAH Standard 7/8 - 14	CS Nut / SS Jacket	161-236
166-236J-9	Alternative 7/8 - 9	CS Nut / SS Jacket	161-236
185A-818J-A-14	TAH Standard 7/8 - 14	Aluminum, Robotic	180A-818
185A-824J-A-14	TAH Standard 7/8 - 14	Aluminum, Robotic	180A-824
185A-836J-A-14	TAH Standard 7/8 - 14	Aluminum, Robotic	180A-836

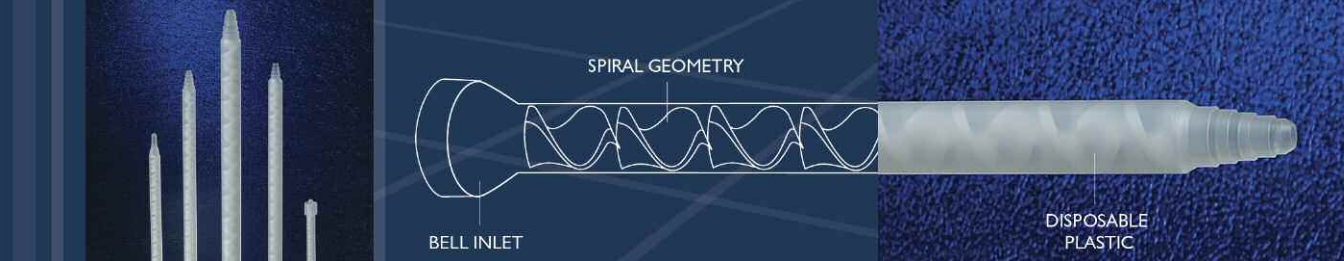
### Description

For medium- and high-pressure systems where pressure inside the mixer is greater than 150psi (10bar), we recommend that a metal jacket be used over the mixing nozzle. TAH offers a range of low-cost, one-piece jackets. They are ideal for robotic applications where repeat positioning is required.

All TAH manifolds and valves have our standard 7/8 - 14 thread, but our metal jackets are offered in both standard and an alternative 7/8 - 9 thread for your convenience.

### Mixer Applications

- ▶ Series 160
- ▶ Series 160A
- ▶ Series 180A



## Ratio Check Cap and Night Cap



### Description

TAH offers these Teflon® Night and Ratio Check Caps with nuts for use in conjunction with our manifolds and dispensing valves.

### Mixer Applications

- ▶ Series I60
- ▶ Series I60A

#### SERIES I60, I60A NIGHT & RATIO CHECK CAP

PART. NO.	DESCRIPTION
I65-CAP/01	Teflon® Night Cap & Nut
I65-RC/01	Teflon® Ratio Check Cap & Nut

## Retaining Nut



### Description

Aluminum retaining nuts are available to hold the Series I41, I60, I60A and 442 mixing nozzles onto adapters, manifolds, and valves and are used when a metal jacket is not required. To attach a mixer to a manifold, press fit the mixer onto the nose of the manifold, slip the retaining nut over the mixer and hand tighten the retaining nut to the manifold.

### Mixer Applications

- ▶ Series I41
- ▶ Series I60
- ▶ Series I60A
- ▶ Series I62A

#### SERIES I41, I60, I60A, I62A RETAINING NUTS

PART NO.	DESCRIPTION	THREAD	MIXING NOZZLE
I65-36N	Aluminum	TAH Standard 7/8 - 14	Series I60-4XX, I60-6XX
I65-36N-A-9S	Aluminum	Alternative 7/8 - 9	Series I60-4XX, I60-6XX
I65-37N	Aluminum	TAH Standard 7/8 - 14	Series I60-7XX, I60-8XX
I65-37N-A-9S	Aluminum	Alternative 7/8 - 9	Series I60-7XX, I60-8XX
I65-38N	Aluminum	TAH Standard 7/8 - 14	Series I41, Series I61-2XX
I65-38N-A-9S	Aluminum	Alternative 7/8 - 9	Series I61-2XX
I65-30FFR-NWF	Alum. Wrench Flat	1-1/16 - 12	Series I41
I65-40N	Carbon Steel	1-5/16 - 12 UNF	Series I62A
I65-60FFR-NWF	Alum. Wrench Flat	1-1/4 - 12 NS	Series I41
442-NUT-A	Dynamic, Alum.	1-1/8 - 12 UNF	Series 442

## Support Washer



### Description

With high-pressure drops greater than 250 psi (17 bar), a washer will support the mixer and prevent crushing. Inquire with our Technical Service or Sales Departments for ordering.

meter mix / dosing



## Series 400, 450, 400 XT and 450 XT Autovalves

### Series 400 Autovalve

With meter mix and dispense systems, the pneumatic Series 400 Autovalve is a durable and reliable valve. The A and B shut off pistons have Teflon® front seals allowing high flow with minimal maintenance.

### Series 450 Snuff Back Autovalve

The pneumatic Series 450 Autovalve is similar to the Series 400 Autovalve, except for the shut-off pistons. The 450 ensures good control of dot or shot volume. After each shot, the dual pistons retract and “snuff back” material from the end of the mixing nozzle. Snuff-back can be adjusted on the back of the air cylinder. This feature helps eliminate “after drool.” This valve includes hard-coated and lubricated pistons. It can be used either as a stationary head or hand-held unit.

### Series 400 XT and 450 XT Snuff Back Valve Urethane Dispensers

In response to your needs, TAH has designed and manufactured an innovative dispense valve specifically for two-component urethanes. Since two-component urethanes are moisture sensitive, any contact with air can cure the material, locking up the dispense valve. This production proven design eliminates exposure of wetted shafts to air.

- ▶ Uses the same manifold and handles as the Series 400 and 450 valves.
- ▶ A thicker tie plate increases the distance between the lip seals to greater than the stroke length resulting in extended seal life and less down time.

### Advantages of the Series 400, 450, 400 XT and 450 XT

- ▶ **Easy to Clean:** If cross contamination occurs, the manifold can be removed and cleaned without disassembly of the valve body
- ▶ **Optional Stainless Steel Valve:** For corrosive acrylics or epoxies
- ▶ **Flush Valve Manifold:** For cleaning the mixing nozzle with air or solvent. A check valve is threaded into the side of the manifold.
- ▶ **Lubricated and Hard Coated Shafts:** Lubricated with TAH Autogrease to extend seal life and protect moisture sensitive adhesives and hard-coated to resist abrasive adhesives
- ▶ **Optional Polytuff, Teflon®, Viton®, and EP Seals:** For varying chemical formulations and abrasive conditions. Consult Technical Services or Sales Dept. for more seal options.
- ▶ **Optional Night Cap & Ratio Check Cap:** Available for 1:1 ratio manifolds.

### Specification

- ▶ **Weight (Aluminum Valve and Manifold):** 1.6 lbs (0.7 kg)
- ▶ **Weight (Stainless Steel Valve and Manifold):** 2.5 lbs (1.1 kg)
- ▶ **Pressure Rating:** 3,500 psi (240 bar)

### Parts and Accessories

#### Fluid Inlet Adapters



- ▶ 316 Stainless Steel 37° JIC Adapters (page 37)
- ▶ Carbon Steel 37° JIC Adapters (page 37)
- ▶ Fluid Inlet Adapters
- ▶ Night Cap & Ratio Check Cap (page 37)
- ▶ Swivel Check Valve Adapters (page 37)

Series 400 Autovalve

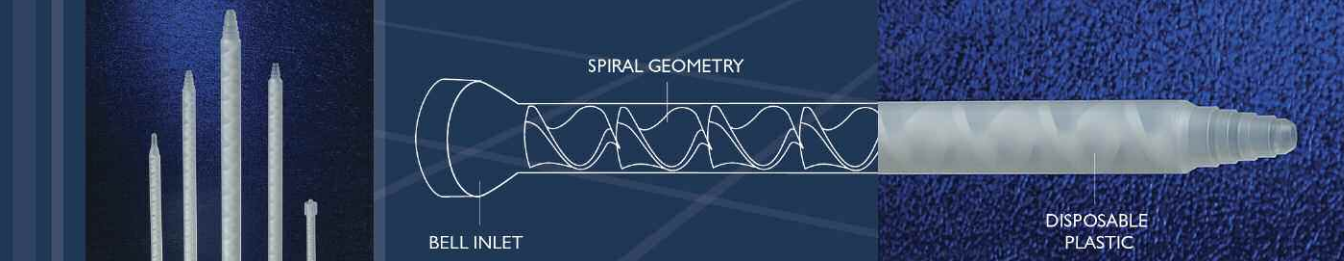


Series 450 Autovalve



Series 450 XT SnuffBack Valve Urethane Dispenser





**Call our Technical Service or Sales Dept. for selection and details on other options.**

SERIES 400 AUTOVALVES AND MANIFOLDS			
PART NO.	DESCRIPTION	RATIO	FLOW RATE
400-100HATPV	Alum. Valve, Single Air Cylinder, TPV Seals	-	-
400-100HBTVP	Alum. Valve, Double Air Cylinder, TPV Seals	-	-
410-100HATGT	Stainless Steel Valve, Single Air Cylinder, TGT Seals	-	-
410-100HBTGT	Stainless Steel Valve, Double Air Cylinder, TGT Seals	-	-
400-M160-A	Aluminum Manifold	1:1	Low Flow
400-M160-B	Aluminum Manifold with Air/Solvent Flush Valve	1:1	Low Flow
400-M160-D	Aluminum Manifold	Wide	Low Flow
400-M160-E	Aluminum Manifold with Air/Solvent Flush Valve	Wide	Low Flow
400-M160-G	Aluminum Manifold	1:1	High Flow
400-M160-H	Aluminum Manifold with Air/Solvent Flush Valve	1:1	High Flow
400-M160-J	Aluminum Manifold	Wide	High Flow
400-M160-K	Aluminum Manifold with Air/Solvent Flush Valve	Wide	High Flow
410-M160-A	Stainless Steel Manifold	1:1	Low Flow
410-M160-B	Stainless Steel Manifold with Air/Solvent Flush Valve	1:1	Low Flow
410-M160-D	Stainless Steel Manifold	Wide	Low Flow
410-M160-E	Stainless Steel Manifold with Air/Solvent Flush Valve	Wide	Low Flow
410-M160-G	Stainless Steel Manifold	1:1	High Flow
410-M160-H	Stainless Steel Manifold with Air/Solvent Flush Valve	1:1	High Flow
SERIES 450 SNUFF BACK AUTOVALVES AND MANIFOLDS			
PART NO.	DESCRIPTION	RATIO	FLOW RATE
450-200HAGT	Alum. Valve, Single Air Cylinder w/Snuff Back, GT Seals	-	-
450-200HAPV	Alum. Valve, Single Air Cylinder w/Snuff Back, PV Seals	-	-
460-200HAGT	Stainless Steel Valve, Single Air Cylinder w/Snuff Back, GT Seals	-	-
450-M160-A	Aluminum Manifold	1:1	Low Flow
450-M160-B	Aluminum Manifold with Air/Solvent Flush Valve	1:1	Low Flow
450-M160-D	Aluminum Manifold	Wide	Low Flow
450-M160-E	Aluminum Manifold with Air/Solvent Flush Valve	Wide	Low Flow
460-M160-A	Stainless Steel Manifold	1:1	Low Flow
460-M160-B	Stainless Steel Manifold with Air/Solvent Flush Valve	1:1	Low Flow
460-M160-D	Stainless Steel Manifold	Wide	Low Flow
460-M160-E	Stainless Steel Manifold with Air/Solvent Flush Valve	Wide	Low Flow
SERIES 400 XT VALVES			
PART NO.	DESCRIPTION		
400-100HDTGT	Alum. Valve, Extended Air Cylinder, GT Seals		
400-100HDTPT	Alum. Valve, Extended Air Cylinder, PV Seals		
410-100HDTGT	Stainless Steel Valve, Extended Air Cylinder, GT Seals		
SERIES 450 XT SNUFF BACK VALVES			
PART NO.	DESCRIPTION		
450-200HBGT	Alum. Valve, Extended Air Cylinder w/Snuff Back, GT Seals		
450-200HBPV	Alum. Valve, Extended Air Cylinder w/Snuff Back, PV Seals		
460-200HBGT	Stainless Steel Valve, Extended Air Cylinder w/Snuff Bac, GT Seals		
HANDLES & BASE			
PART NO.	COMPONENTS	DESCRIPTION	
400-MOUNT-E01	Handle	Pistol Grip Handle w/Electric Momentary Switch (24V)	
400-MOUNT-E02	Handle	Pistol Grip Handle w/Electric Push On/Off Switch (24V)	
400-MOUNT-H01	Handle	Pistol Grip Handle w/Pneumatic Switch	
400-MOUNT-S	Base	Swivel Base	

CARBON STEEL PIPE ADAPTERS	
PART NO.	DESCRIPTION
451-F2EFNPT-75E	90° Elbow w/1/4" FNPS
451-F2EMNPT-75E	90° Elbow w/1/4" MNPT
451-F2SFNPT-75E	Straight Adapter w/1/4" FNPS
451-F2SMNPT-75E	Straight Adapter w/1/4" MNPT
451-F3EFNPT-75E	90° Elbow w/3/8" FNPS
451-F3EMNPT-75E	90° Elbow w/3/8" MNPT
451-F3SFNPT-75E	Straight Adapter w/3/8" FNPS
451-F3SMNPT-75E	Straight Adapter w/3/8" MNPT
SWIVEL CHECK VALVE ADAPTERS	
PART NO.	DESCRIPTION
451-F2EFNPT-97C	SS w/Alum. Collar, 1/4" FNPT
451-F2EFNPT-98C	All SS, 1/4" FNPT
CARBON STEEL 37° JIC ADAPTERS	
PART NO.	DESCRIPTION
451-F2EJIC-75E	90° Elbow w/1/4" Male JIC
451-F2SJIC-75E	Straight Adapter w/1/4" Male JIC
451-F3EJIC-75E	90° Elbow w/3/8" Male JIC
451-F3SJIC-75E	Straight Adapter w/3/8" Male JIC
316 STAINLESS STEEL 37° JIC ADAPTERS	
PART NO.	DESCRIPTION
451-F2EJIC-98E	90° Elbow w/1/4" Male JIC
451-F2SJIC-98E	Straight Adapter w/1/4" Male JIC
451-F3EJIC-98E	90° Elbow w/3/8" Male JIC
451-F3SJIC-98E	Straight Adapter w/3/8" Male JIC
NIGHT CAP & RATIO CHECK CAP	
PART NO.	DESCRIPTION
165-RC/01*	Ratio Check Cap w/Retaining Nut
165-Cap/01*	Night Cap w/Retaining Nut
REPAIR KITS	
PART NO.	DESCRIPTION
400-RK-TPV	Two Front Seals, Four Lip Seals and Six O-Rings
450-RK-2-PV	Six O-Rings, Six Lip Seals
* These items are used in conjunction with the 1:1 ratio manifolds	
Ordering Guide	
<ul style="list-style-type: none"> <li>▶ Valve, manifold, and handle are ordered individually</li> <li>▶ Optional pistol grip handles and swivel base are available</li> <li>▶ For high back pressure conditions (i.e. over 1,000 psi/69 bar) order a double air cylinder</li> <li>▶ Seal Designations: T = Teflon®, P = Polyurethane, V = Viton®, G = Polytuff</li> </ul>	

meter mix / dosing



## Series 550 LP and 560 HP Manual Dispense Valves



### Description

The inexpensive Series 550 LP (shown at left) and 560 HP Valves are intended for low pressure and high pressure meter mix applications, respectively. These manual valves are ideal for dispensing beads or RTM casting. The design is simple: two ball valves are threaded into the back of the manifold and are connected to a common lever so that both valves open and close at the same time. (The 550 LP Valve is not intended for "feathering" or otherwise attempting to meter the flow.)

### Options

- ▶ Low Flow
- ▶ High Flow
- ▶ Wide Ratio

### Specifications

- ▶ **Material Inlet:** 1/4" FNPT
- ▶ **Weight:**  
**550 Valve:** 2.5 lbs (1.1 kg)  
**560 Valve:** 3.6 lbs (1.6 kg)
- ▶ **Pressure Rating:**  
**550 Valve:** 600 psi (41 bar)  
**560 Valve:** 1,500 psi (103 bar)
- ▶ **Wetted parts:**  
**550 Valve:** Brass, Aluminum, and Carbon Steel  
**560 Valve:** 303 SS

#### SERIES 550 LP VALVE ASSEMBLY

PART NO.	DESCRIPTION	STYLE	MATERIAL
550-100DR	Valve w/Series 160 Outlet	Wide Ratio	Brass / Alum. / CS
550-100HF	Valve w/Series 160 Outlet	High Flow	Brass / Alum. / CS
550-100LF	Valve w/Series 160 Outlet	Low Flow	Brass / Alum. / CS
560-100DR	Valve w/Series 160 Outlet	Wide Ratio	Stainless Steel
560-100HF	Valve w/Series 160 Outlet	High Flow	Stainless Steel
560-100LF	Valve w/Series 160 Outlet	Low Flow	Stainless Steel
501-131	Solvent Flush Check Valve	-	Brass
501-131SS	Solvent Flush Check Valve	-	Stainless Steel

## Series 600 High Flow Manual Dispense Valve



### Description

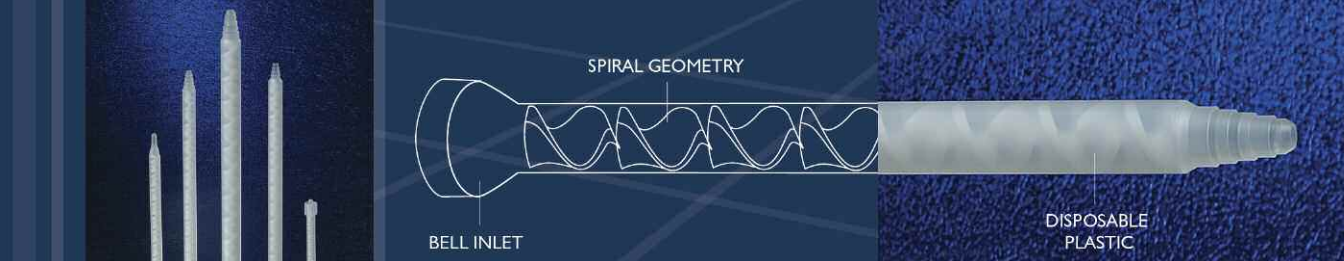
TAH's Series 600 "MEGA" Valve was designed to take full advantage of the high flow rate/high viscosity mixing capability of the Series 162A Disposable Mixers (page 31) and allow the user to handle both material types easily.

### Specifications

- ▶ **Material Inlet:** 1/2" FNPT
- ▶ **Maximum Working Pressure:** 600 psi (40 bar)
- ▶ **Series 162A Mixers:** 162A-616, 162A-623, 162A-632, 162A-639, 162A-648

#### SERIES 600 VALVE ASSEMBLY

PART NO.	DESCRIPTION
600-100MF	Dispense Valve Assembly
600-100MF-DR	Wide Ratio Assembly
601-102	1:1 Ratio Aluminum Manifold
601-102DR	Wide Ratio Aluminum Manifold
601-103	(2) 1/2" MNPT Plug
601-104	(2) 1/2" Swivel Connector
601-105	(2) Ball Valve Fitting
601-106	(2) On/Off Ball Valve
601-107	(2) Valve Handle
601-108	(2) Lock Washer
551-101	Hand Grip



## Series 442 Dynamic Manifold



### Description

The Series 442 Dynamic Manifold is ideal for casting and molding applications such as RTM, potting and encapsulation and for difficult to mix urethanes and epoxies. The Series 442 can be used with new meter mix systems or retrofitted to improve an existing system. The rotating impeller consists of a string of helical elements. By adjusting the speed of rotation from 200 to 2000 rpm, high shear and complete mixing are achieved. Note: The Series 442 Dynamic Manifold must be used in conjunction with a valve (for example: TAH's Series 400 Autovalve). Contact our Technical Service or Sales Department for Stainless Steel manifolds.

### Features

- ▶ **Light Weight:** Weighs less than 4 lbs.
- ▶ **Air Operated System:** No electric required
- ▶ **Sequenced Start:** Impeller rotates before fluid valves open
- ▶ **Quick Mixer Change:** Simple Tee-Lok impeller connection

### Parts and Accessories

- ▶ Air Control Panel
- ▶ Mixers
- ▶ Retaining Nut (page 35)
- ▶ Repair Kit
- ▶ Valve

#### SERIES 442 MANIFOLD ASSEMBLY

PART NO.	DESCRIPTION	SEAL	RATIO	SOLVENT PORT
442-MI-ATSEE	Aluminum	EP	1:1	–
442-MI-ATSTT	Alum. w/Check Valve	Teflon®	1:1	–
442-MI-BTSEE	Alum. w/Check Valve	EP	1:1	1/4" NPT
442-MI-BTSTT	Alum. w/Check Valve	Teflon®	1:1	1/4" NPT
442-MI-CTSEE	Aluminum	EP	Wide	–
442-MI-CTSTT	Alum. w/Check Valve	Teflon®	Wide	–
442-MI-DTSEE	Alum. w/Check Valve	EP	Wide	1/4" NPT
442-MI-DTSTT	Alum. w/Check Valve	Teflon®	Wide	1/4" NPT

#### SERIES 442 RETAINING NUT

PART NO.	DESCRIPTION	MATERIAL
442-NUT-A	Dynamic Retaining Nut	Aluminum

#### SERIES 442 CONTROL PANEL

PART NO.	DESCRIPTION	MOUNT	AIR TUBING (FEET / METERS)
442-AI-W-05	Dynamic Air Control Panel	Standard Wall Mount	5 / 1.524
442-AI-W-10	Dynamic Air Control Panel	Standard Wall Mount	10 / 3.048
442-AI-W-20	Dynamic Air Control Panel	Standard Wall Mount	20 / 9.096

#### SERIES 442 REPAIR KIT

PART NO.	DESCRIPTION	FRONT SEAL	BACK SEAL
442-MI-RK-EE	Dynamic Repair Kit	EP O-Ring	EP O-Ring
442-MI-RK-ET	Dynamic Repair Kit	EP O-Ring	Teflon® Lip Seal
442-MI-RK-TT	Dynamic Repair Kit	Teflon® Lip Seal	Teflon® Lip Seal

## Series 442 Disposable Plastic Dynamic Mixer



### Description

Designed for the Series 442 Dynamic Manifold, this mixer is ideal for difficult-to-mix urethanes and epoxies. The unique design combines dynamic mixing with low-cost, disposable mixing chambers. The A and B components are separately ported through the gun body and manifold and do not combine until they meet inside the disposable mixing chamber. The rotating impeller consists of a string of helical elements which move the fluids back and forth.

#### SERIES 442 MIXER

PART NO.	MIXING ELEMENTS	DESCRIPTION	ELEMENT INSIDE DIAMETER (INCH / MM)
442-CI-A	12	Dynamic Disposable Mixing Chambers	0.5 / 12.7
442-CI-ALL	12	Dynamic Disposable Mixer with Luer Lock	0.5 / 12.7
442-CI-ALL-01	5	Dynamic Disposable Mixer with Luer Lock	0.5 / 12.7



## Series 171 Quick•Spray Low-Pressure Air-Assisted Spray

### Description

TAH's Series 171 Quick•Spray System is quick to coat, quick to change and quick to clean. This patented spray fitting for low-pressure, air-assisted spray applications is paired with TAH's Series 160AA disposable static mixers and can be used with meter mix equipment or with two-component cartridges for smaller jobs. Coatings with set times as low as five seconds can be easily handled with this equipment. Common applications include coating truck bed liners, concrete, and tanks.

### Spray Pattern



#### Round Spray Pattern

The round air cap produces a full cone pattern, which is completely filled with spray drops. It is used on irregular surfaces, such as truck bed interiors.

#### Flat Spray Pattern

The flat air cap produces a non-tapered flat pattern which is preferred on flat surfaces. The flat pattern minimizes overspray.



## Series 160AA Disposable Low-Pressure Air-Assisted Spray Mixer



### Description

TAH's Series 160AA is a disposable, low-pressure, air-assisted spray mixer for two-component coatings. 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. This is effective for high viscosity liquids and abrasive suspensions, and, since the reactive coating is contained completely within the mixer, cleanup time is minimal.

### SERIES 171 QUICK•SPRAY LOW-PRESSURE AIR-ASSISTED MIXER

PART NO.	NO. OF ELEMENTS	MIXER DIAMETER (INCH / MM)	PRESSURE LIMITATION (PSI@75°F / BAR@23°C)	AIR NOZZLE PATTERN (ROUND / FLAT)
160-624AA-1	24	0.238 / 6.30	360 / 25	171-AN-120 / 171-AN-F1
160-624AA-4	24	0.238 / 6.30	360 / 25	171-AN-200 / 171-AN-F2
160-824AA-2	24	0.366 / 9.30	300 / 21	171-AN-150 / 171-AN-F2
161-224AA-3	24	0.497 / 12.65	270 / 19	171-AN-180 / 171-AN-F2

\* The spray fitting consists of an air manifold, air cap, and retaining ring.

## Series 550 LP Dispenser



### Description

Series 550 LP Autogun for meter mix applications. TAH's quick connect fittings on the air manifold allow rapid mixer changeover.

### SERIES 550 LP DISPENSER

PART NO.	DESCRIPTION	FLOW RATE
550-100LF-AA	Dispenser w/160 Outlet	Low Flow
550-100HF-AA	Dispenser w/160 Outlet	High Flow



