



Precision Liquid Dispensing Technology

Liquid Dispensing System
Since 1994



SUPRATEC SYNEO

Overview

Static Mixer Systems

Static mixer is the mixing device that can mix two or more liquids. Without any rotation part or motive power, just passing through the mixer is a continuous and equally mix. It's a very convenient and economical mixer.

Mixing Principle

1) Flow division 2) Rotational circulation 3) Radial mixing
these 3 of actions perfectly mix the two liquids.

1) Division of flow

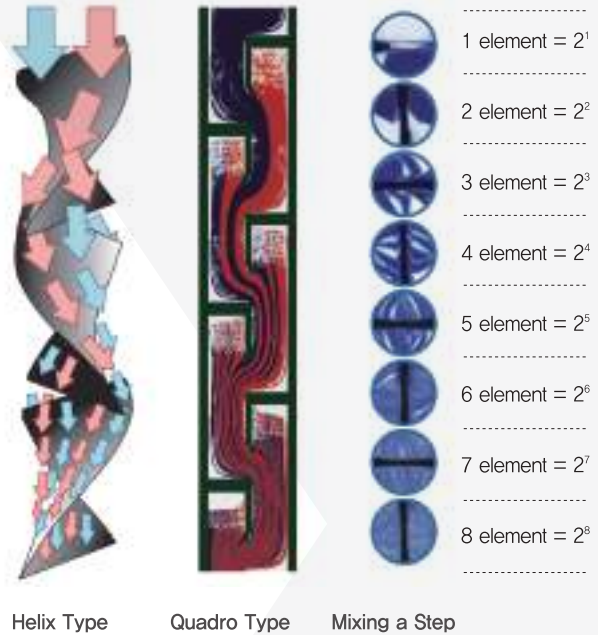
Each time liquid passed through an element, it becomes divided into two equal parts. Number of divided is S, number of elements is n and then $S=2^n$. That is, the liquid that passed through the 8 elements is divided into 256

2) Rotational circulation

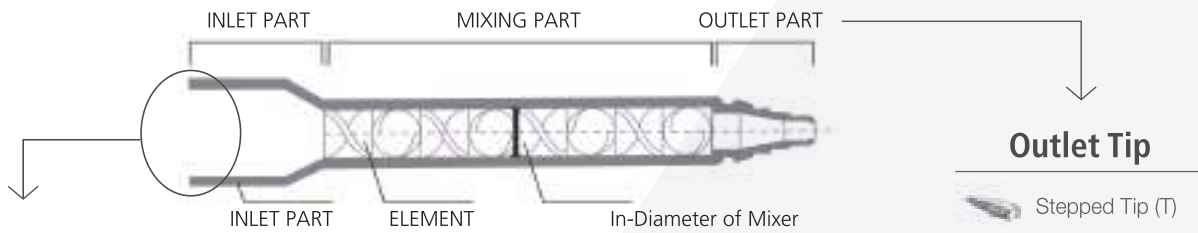
Rotational circulation is induced by left-and right-twisting helical elements.

3) Radial mixing

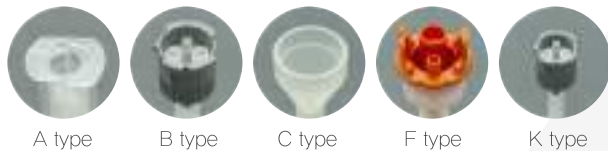
Flowing from the center to the wall and from the wall to the center along the twisted side of the element



Structure



Inlet type



Needle Adapter

A needle adapter can be inserted into models with T-shaped dispensing tip.

	Element Nominal Diameter Ø5 ~ Ø6	LA 05-00 WHITE
	Element Nominal Diameter Ø6 ~ Ø8	LA 06-08 WHITE
	Element Nominal Diameter Ø10	LA 10-00 BLACK

* Application :



PDP-500

FRESH HARDNER


 TAEHA

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MIXPAC™ A-System



Mixer Helix for System A/Q, 1:1/2:1
 Mixer Helix for System A/Q, 4:1/10:1 (X type)
 Mixer Quadro for System A/Q

	ID	Article	Number of Elements	Inner Diameter Ø mm/inch	Waste Volume (mL)	
1:1/2:1 MAH 	102361	MAH 03-07S	7	3.0/0.118	0.24	
	102362	MAH 03-13S	13	3.0/0.118	0.36	
	102364	MAH 03-17S	17	3.0/0.118	0.34	
	102366	MAH 04-13S	13	4.0/0.157	0.60	
	102367	MAH 04-17D	17	4.0/0.157	0.75	
	102368	MAH 04-17S	17	4.0/0.157	0.75	
	102369	MAH 05-07T	7	5.4/0.213	0.80	
	102370	MAH 05-13D	13	5.4/0.213	1.36	
	102371	MAH 05-13T	13	5.4/0.213	1.36	
	102360	MAH 0517-0413T	17 +13	5.4/0.213 4.0/0.157	2.07	
	102372	MAH 05-17T	17	5.4/0.213	1.68	
	102373	MAH 05-21T	21	5.4/0.213	2.01	
	102377	MAH 06-12T	12	6.3/0.248	2.08	
	102378	MAH 06-17T	17	6.3/0.248	2.94	
	102379	MAH 06-21L	21	6.3/0.248	3.33	
	102380	MAH 06-21T	21	6.3/0.248	3.57	
	4:1/10:1 MAHX 	102535	MAHX 04-17S	17	4.0/0.157	0.75
		102536	MAHX 05-17T	17	5.4/0.213	1.68
	1:1/2:1/4:1/10:1 MAQ  Colour	300028	MAQ 05-16L	16	5.3/0.209	1.30
300026		MAQ 05-24L	24	5.3/0.209	1.90	
300391		MAQ 05-16L-12 ●*	16	5.3/0.209	1.30	
300405		MAQ 05-16L-13 ●*	16	5.3/0.209	1.30	

Outlet Tip				Accessoires			
Stepped Tip (T)	Straight Tip (D)	Luer Slip Tip (L)	Tapered Tip (S)	BRT 205-10	IOT 406-15	IOT 506-15	LA 05-00
		✓					
		✓					
		✓					
		✓					
	✓				✓		
		✓					
✓							✓
	✓			✓		✓	
✓							✓
✓							✓
✓							✓
✓							✓
		✓					
✓							
✓		✓					✓
		✓					✓
		✓					✓
		✓					✓


* different colour

Matching dispensers

	ID	Article	Flange		Ratio					Force (kN)
			A		1:1	2:1	4:1	10:1		
DMA dispenser manual 	101875	DMA 51-00-10	✓		✓	✓				1.2
	101883	DMA 54-00-10	✓		✓	✓	✓			1.2
	112790	DMA 59-00-10	✓		✓	✓		✓		1.2
	111746	DMA 75-00-10	✓		✓					1.2
DP dispenser pneumatic 	151780	DP2 50-16-100	✓		✓	✓				1.6
	153098	DP2 75-16-100	✓		✓	✓	✓	✓		1.6

MIXPAC™ B-System




- Mixer Helix for System B, 1:1/2:1
- Mixer Helix for System B, 4:1/10:1 (X type)
- Mixer Quadro for System B
- Mixer Quadro for System B, 4:1/10:1 (X type)

	ID	Article	Number of Elements	Inner Diameter Ø mm/inch	Waste Volume (mL)	Outlet Tip				Accessoires												
						Stepped Tip (T)	Straight Tip (D)	Luer Slip Tip (L)	Tapered Tip (S)	LA 05-00	LA 06-08	BRT 205-10	IOT 406-15	IOT 506-15	IOT 212-20	IOR 209-20						
 1:1/2:1 MBH	116457	MBH 03-12D	12	3.2/0.126	0.49	✓							✓	✓	✓							
	116458	MBH 03-12S	12	3.2/0.126	0.49			✓														
	116459	MBH 03-16D	16	3.2/0.126	0.63	✓		✓					✓	✓	✓							
	116460	MBH 03-16L	16	3.2/0.126	0.63			✓														
	116461	MBH 03-16S	16	3.2/0.126	0.59				✓													
	116462	MBH 04-12D	12	4.2/0.165	0.84	✓								✓								
	116463	MBH 04-16D	16	4.2/0.165	1.04	✓								✓								
	116464	MBH 04-16S	16	4.2/0.165	1.04				✓													
	116575	MBH 05-06T	6	5.4/0.213	0.94	✓				✓												
	116465	MBH 05-12D	12	5.4/0.213	1.52		✓						✓		✓							
	116466	MBH 05-14D	14	5.4/0.213	1.91		✓						✓		✓							
	116467	MBH 05-16T	16	5.4/0.213	1.91	✓				✓												
	116468	MBH 05-20T	20	5.4/0.213	2.29	✓				✓												
	116469	MBH 06-11D	11	6.5/0.256	2.28		✓						✓		✓							
	116470	MBH 06-16T	16	6.5/0.256	3.14	✓							✓									
	116471	MBH 06-20T	20	6.5/0.256	3.76	✓							✓									
	116472	MBH 07-11D	11	7.5/0.295	3.05		✓															
	4:1/10:1 MBHX	116473	MBHX 03-16S	16	3.2/0.126	0.60				✓												
116474		MBHX 04-16D	16	4.2/0.165	1.05		✓						✓									
116576		MBHX 04-16S	16	4.2/0.165	1.05				✓													
116475		MBHX 05-12D	12	5.4/0.213	1.52		✓						✓	✓	✓							
116476		MBHX 05-16T	16	5.4/0.213	1.91	✓				✓												
116477		MBHX 05-20T	20	5.4/0.213	2.07	✓				✓												
116478		MBHX 06-16D	16	6.5/0.256	3.14	✓							✓									
116480		MBHX 06-16T	16	6.5/0.256	3.04	✓							✓		✓							
116481		MBHX 06-20T	20	6.5/0.256	3.79	✓							✓									
1:1/2:1 MBQ	114144	MBQ 05-16L	16	5.3/0.209	1.88			✓		✓												
	154801	MBQ 05-16L-12	16	5.3/0.209	1.88			✓		✓												
4:1/10:1 MBQX	114145	MBQ 05-24L	24	5.3/0.209	2.60			✓		✓												
	116063	MBQX 05-16L	16	5.3/0.209	1.72			✓		✓												
	116062	MBQX 05-24L	24	5.3/0.209	2.37			✓		✓												

* different colour

MIXPAC™ B-System

Matching dispensers

	ID	Article	Flange		Ratio				Force (kN)
			B 50	B S50	1:1	2:1	4:1	10:1	
DMA/DMB dispenser manual 	101875	DMA 51-00-10	✓		✓	✓			1.2
	116795	DMB 50-04-01	✓				✓		1.2
	116794	DMB 50-10-01	✓					✓	1.2
DS dispenser manual 	101934	DS 53-01-00		✓	✓	✓			1.2
	109146	DS 51-04-00		✓			✓		1.2
	101929	DS 51-10-00		✓				✓	1.2
	115676	DS 75-10-00		✓				✓	1.2
	110938	DS 77-01-00		✓	✓				1.2
DP dispenser pneumatic 	151780	DP2 50-16-100	✓		✓	✓			1.6
	153094	DP2 50-16-400	✓				✓	✓	1.6
	151886	DP2 50-16-300		✓				✓	1.6
	153098	DP2 75-16-100	✓		✓				



PDP-1000
#1 프로펌프

PDP-1000
#2 프로펌프

 TAEHA

 SUPRATEC SYNEO


Source: 3-Component Industry Ltd.



Substrato 3-Component Industry 19

PD

RESIN

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 SUPRATEC SYNEO

MIXPAC™ Machine Mixers

Overview

Series Industrial

Mixers

Series	ID	Article	Number of Elements	Inner Diameter Ø mm/inch	Length (mm)	Units/Box	max. Operating Pressure	Outlet tip			
								Stepped Tip (T)	Straight Tip (D)	Luer Slip Tip (L)	Threaded Tip
ME Machine Mixer PP 	102455	ME 1012-0832T	12+32	1.3/0.52	409.0	700	22.0	✓			
	102458	ME 1312-1032T	12+32	1.3/0.52	499.0	500	17.0	✓			
	102457	ME 10-32T	32	10.0/0.394	355.0	800	22.0	✓			
	102460	ME 13-24T-02	24	13.0/0.512	350.0	500	17.0	✓			
	102459	ME 13-24T	24	13.0/0.512	293.0	700	17.0	✓			
	102462	ME 13-32T-02	32	13.0/0.512	453.0	400	17.0	✓			
	102461	ME 13-32T	32	13.0/0.512	378.0	500	17.0	✓			
	102448	ME 05-24T	24	5.0/0.197	149.0	2000	33.0	✓			
	102449	ME 05-32T	32	5.0/0.197	188.0	2000	33.0	✓			
	102450	ME 06-24T	24	6.4/0.252	189.0	2000	30.0	✓			
	102451	ME 06-32T	32	6.4/0.252	235.0	1700	30.0	✓			
	102452	ME 06-48T	48	6.4/0.252	334.0	1000	30.0	✓			
	102453	ME 08-24T	24	8.0/0.331	223.0	1500	27.0	✓			
	102454	ME 08-32T	32	8.0/0.331	289.0	1200	27.0	✓			
	102456	ME 10-24T	24	10.0/0.394	276.0	1000	22.0	✓			
	MS Machine Mixer PP 	113743	MS 13-12G	12	13.0/0.512	159.0	1000	17.0			
102517		MS 13-18G	18	12.8/0.504	223.0	800	17.0				✓
102519		MS 13-24T-02	24	13.0/0.512	350.0	500	17.0	✓			
102518		MS 13-24T	24	13.0/0.512	293.0	700	17.0	✓			
102522		MS 13-32G-01	32	13.0/0.512	373.0	400	17.0				✓
102521		MS 13-32T-02	32	13.0/0.512	453.0	400	17.0	✓			
102520		MS 13-32T	32	13.0/0.512	378.0	500	17.0	✓			
102510		MS 08-24T	24	8.0/0.331	223.0	1500	27.0	✓			
102511		MS 08-32T	32	8.0/0.331	289.0	1200	27.0	✓			
102513		MS 10-18T	18	10.0/0.394	214.0	1400	22.0	✓			
102514		MS 10-24T	24	10.0/0.394	352.0	1000	22.0	✓			
102515		MS 10-32T	32	10.0/0.394	352.0	800	22.0	✓			
102503		MS 05-24T	24	5.0/0.197	149.0	2000	33.0	✓			
102504		MS 05-32T	32	5.0/0.197	188.0	2000	33.0	✓			
102505		MS 06-24T	24	6.4/0.252	186.0	2000	30.0	✓			
102506		MS 06-32T	32	6.4/0.252	235.0	1700	30.0	✓			
102507		MS 06-48T	48	6.4/0.252	334.0	1000	30.0	✓			
102509		MS 06-56L	56	6.4/0.252	38.0	800	30.0				✓
102508		MS 06-56D	56	6.4/0.252	378.0	800	30.0				✓
102512		MS 1012-0832T	12+32	1.3/0.052	409.0	700	22.0	✓			
102516	MS 1312-1032D	12+32	1.3/0.052	499.0	500	17.0				✓	
MSR Rotary Mixer PP 	102499	MSR 06-12T	12	6.4/0.252	111.5	2000	30.0	✓			
	102500	MSR 08-12T	12	8.0/0.331	130.0	1500	27.0	✓			
	102501	MSR 10-12T	12	10.0/0.394	155.0	1500	22.0	✓			
	102502	MSR 13-12T	12	13.0/0.512	197.0	1000	17.0	✓			

For safety reasons, MIXPAC™ shrouds must be used at all times.