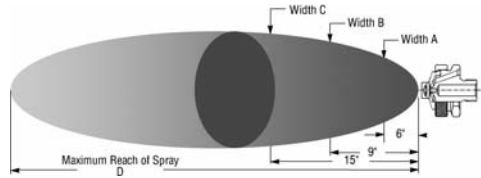


XAER

Pressure-fed/Ext. Mix/Narrow Angle Round

DESIGN/SPRAY CHARACTERISTICS

- External mix: allows spraying of viscous liquids
- Variable atomization
- Narrow spray angle (10°- 30°)
- Precise metering of liquid flow rate



Dimensions are approximate. Check with BETE for critical dimension applications.



1/4" XAER850A
XA 00 Body; A Hardware

XA ER Set-up Flow Rates and Spray Dimensions

Pressure-fed, External Mix, Narrow Round Spray Pattern, 1/8" and 1/4" Pipe Sizes

Pipe Size	Spray Set-up Number	Fluid and Air Cap Numbers	3 PSI Liquid			5 PSI Liquid			10 PSI Liquid			20 PSI Liquid			40 PSI Liquid			Spray Dimensions							
			PSI air	GPH	SCFM	PSI air	GPH	SCFM	PSI air	GPH	SCFM	PSI air	GPH	SCFM	PSI air	GPH	SCFM	PSI Liquid	Air	A in	B in	C in	D ft		
1/8"	ER 050	Fluid Cap FC7 & Air Cap AC1801	5	0.7	0.8	5	0.8	10	1.2	10	1.2	20	1.8	20	1.8	30	2.3	20	3	10	2	4	5	8	
			10		1.2	20	0.8	1.2	20	1.8	30	2.3	40	2.9	50	3.5	60	4.0	20	20	3	2	3	14	
			20		1.8	30	2.3	40	2.9	50	3.5	60	4.0	70	4.7	80	5.3	90	5.9	40	60	3	3	4	18
			30		2.3	40	2.9	50	3.5	60	4.0	70	4.7	80	5.3	90	5.9	40	60	3	3	4	4	20	
			40		2.9	50	3.5	60	4.0	70	4.7	80	5.3	90	5.9	40	60	3	3	4	4	6	20		
			50		3.5	60	4.0	70	4.7	80	5.3	90	5.9	40	60	3	3	4	4	5	16				
	ER 150	Fluid Cap FC4 & Air Cap AC1801	5	1.0	0.8	5	0.8	10	1.2	10	1.2	20	1.8	20	1.8	30	2.3	20	3	10	2	3	3	10	
			10		1.2	20	1.3	1.8	30	2.3	40	2.9	50	3.5	60	4.0	70	4.7	80	5.3	40	2	3	3	14
			20		1.8	30	2.3	40	2.9	50	3.5	60	4.0	70	4.7	80	5.3	90	5.9	40	2	3	3	18	
			30		2.3	40	2.9	50	3.5	60	4.0	70	4.7	80	5.3	90	5.9	40	60	3	3	3	5	13	
			40		2.9	50	3.5	60	4.0	70	4.7	80	5.3	90	5.9	40	60	3	3	4	4	6	20		
			50		3.5	60	4.0	70	4.7	80	5.3	90	5.9	40	60	3	3	4	4	5	17				
ER 250	Fluid Cap FC3 & Air Cap AC1801	6	2.0	0.9	10	1.2	10	1.2	20	1.8	20	1.8	30	2.3	40	2.9	50	3.5	60	4.0	3	4	4	10	
		10		1.2	20	2.7	1.8	30	2.3	40	2.9	50	3.5	60	4.0	70	4.7	80	5.3	40	3	3	5	14	
		20		1.8	30	2.3	40	2.9	50	3.5	60	4.0	70	4.7	80	5.3	90	5.9	40	3	3	3	5	14	
		30		2.3	40	2.9	50	3.5	60	4.0	70	4.7	80	5.3	90	5.9	40	60	3	3	4	4	5	17	
		40		2.9	50	3.5	60	4.0	70	4.7	80	5.3	90	5.9	40	60	3	3	4	4	4	4	4	18	
		50		3.5	60	4.0	70	4.7	80	5.3	90	5.9	40	60	3	3	4	4	5	16					
ER 350	Fluid Cap FC6 & Air Cap AC1802	10	3.3	3.4	10	3.4	10	3.4	15	4.5	20	5.5	30	7.2	40	8.9	50	10.6	60	12.2	3	5	6	9	
		15		4.5	20	4.1	5.5	30	7.2	40	8.9	50	10.6	60	12.2	80	15.6	90	16.7	5	20	3	4	6	11
		20		5.5	30	7.2	40	8.9	50	10.6	60	12.2	80	15.6	90	16.7	40	60	3	4	6	6	16		
		30		7.2	40	8.9	50	10.6	60	12.2	80	15.6	90	16.7	40	60	3	4	6	6	16				
		40		8.9	50	10.6	60	12.2	80	15.6	90	16.7	40	60	3	4	6	6	15						
		50		10.6	60	12.2	80	15.6	90	16.7	40	60	3	4	6	6	18								
ER 450	Fluid Cap FC2 & Air Cap AC1802	10	5.0	3.4	10	3.4	15	4.5	20	5.5	30	7.2	40	8.9	50	10.6	60	12.2	3	10	4	6	9	14	
		15		4.5	20	6.4	5.5	30	7.2	40	8.9	50	10.6	60	12.2	80	15.6	90	16.7	5	20	4	5	6	18
		20		5.5	30	7.2	40	8.9	50	10.6	60	12.2	80	15.6	90	16.7	40	60	3	5	6	21			
		30		7.2	40	8.9	50	10.6	60	12.2	80	15.6	90	16.7	40	60	3	5	7	22					
		40		8.9	50	10.6	60	12.2	80	15.6	90	16.7	40	60	3	5	6	20							
		50		10.6	60	12.2	80	15.6	90	16.7	40	60	3	5	7	22									
ER 550	Fluid Cap FC1 & Air Cap AC1802	15	10	4.5	20	5.5	30	7.2	40	8.9	50	10.6	60	12.2	80	15.6	90	16.7	3	20	6	6	9	16	
		20		5.5	30	13	7.2	40	8.9	50	10.6	60	12.2	80	15.6	90	16.7	40	60	5	6	9	15		
		30		7.2	40	8.9	50	10.6	60	12.2	80	15.6	90	16.7	40	60	3	5	7	7	21				
		40		8.9	50	10.6	60	12.2	80	15.6	90	16.7	40	60	3	5	6	10	22						
		50		10.6	60	12.2	80	15.6	90	16.7	40	60	3	5	7	22									
		60		12.2	80	15.6	90	16.7	40	60	3	5	6	22											
ER 650	Fluid Cap FC8 & Air Cap AC1803	15	10	7.2	20	8.8	30	11.7	40	14.5	50	17.2	60	19.8	70	22.5	80	25.2	3	20	5	6	8	17	
		20		8.8	25	13	10.3	30	11.7	40	14.5	50	17.2	60	19.8	70	22.5	80	25.2	5	30	6	6	6	22
		25		10.3	30	13	11.7	40	14.5	50	17.2	60	19.8	70	22.5	80	25.2	90	27.9	5	50	5	5	6	22
		30		11.7	40	14.5	50	17.2	60	19.8	70	22.5	80	25.2	90	27.9	40	60	5	6	7	22			
		40		14.5	50	17.2	60	19.8	70	22.5	80	25.2	90	27.9	40	60	5	6	6	22					
		50		17.2	60	19.8	70	22.5	80	25.2	90	27.9	40	60	5	6	7	18							
ER 750	Fluid Cap FC9 & Air Cap AC1803	20	17	8.8	30	11.7	40	14.5	50	17.2	60	19.8	70	22.5	80	25.2	90	27.9	3	20	6	6	9	19	
		30		11.7	40	14.5	50	17.2	60	19.8	70	22.5	80	25.2	90	27.9	40	60	6	6	8	21			
		40		14.5	50	17.2	60	19.8	70	22.5	80	25.2	90	27.9	40	60	6	7	7	21					
		50		17.2	60	19.8	70	22.5	80	25.2	90	27.9	40	60	6	7	7	22							
		55		18.5	65	21.1	70	22.5	80	25.2	90	27.9	40	60	5	5	7	20							
		60		19.8	70	22.5	80	25.2	90	27.9	40	60	5	5	8	19									
ER 850	Fluid Cap FC5 & Air Cap AC1803	40	25	14.5	55	17.2	65	19.8	70	22.5	80	25.2	90	27.9	40	60	5	7	22						
		50		17.2	60	19.8	70	22.5	80	25.2	90	27.9	40	60	3	4	5	7	18						
		55		18.5	65	21.1	80	25.2	90	27.9	40	60	3	4	6	18									
		60		19.8	70	22.5	80	25.2	90	27.9	40	60	3	4	6	18									
		65		21.1	80	25.2	90	27.9	40	60	3	4	6	18											
		70		22.5	80	25.2	90	27.9	40	60	3	4	6	19											

Standard Materials: Nickel Plated Brass, 303 Stainless Steel, and 316 Stainless Steel.

Spray angle performance varies with pressure. Contact BETE for specific data on critical applications.