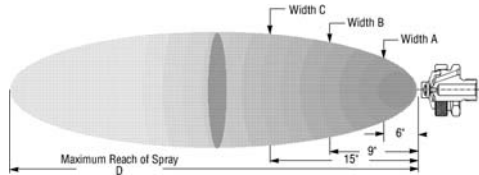


XAER

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	0.2 BAR Liquid			0.3 BAR Liquid			0.7 BAR Liquid			1.5 BAR Liquid			3 BAR Liquid			Spray Dimensions													
			BAR air	L/h	Nm ³ /h	BAR air	L/h	Nm ³ /h	BAR air	L/h	Nm ³ /h	BAR air	L/h	Nm ³ /h	BAR air	L/h	Nm ³ /h	Liquid	AIR	A mm	B mm	C mm	D mm								
1/8"	ER 050	Fluid Cap FC7 & Air Cap AC1801	0.3	2.7	1.3	0.3	1.3	0.7	1.3	1.9	1.4	2.9	2.1	3.7	2.8	4.6	3.4	5.6	4.1	5.5	6.2	2.9	0.2	0.7	50	60	80	90	100	130	2.3
			0.7		1.9	0.7	3	1.9	1.4	2.9	2.1	3.7	2.8	4.6	3.4	5.6	4.1	5.5	6.2	2.9	0.2	0.7	50	60	80	90	100	130	3		
			1.4		2.9	1.4	3	2.9	2.1	3.7	2.8	4.6	3.4	5.6	4.1	5.5	6.2	2.9	0.2	0.7	50	60	80	90	100	130	3.7				
			2.1		3.7	2.1	3	3.7	2.8	4.6	3.4	5.6	4.1	5.5	6.2	2.9	0.2	0.7	50	60	80	90	100	130	4.9						
1/8"	ER 150	Fluid Cap FC4 & Air Cap AC1801	0.3	3.7	1.3	0.3	1.3	0.7	1.9	1.4	2.9	2.1	3.7	2.8	4.6	3.4	5.6	4.1	6.2	2.9	0.2	0.7	50	60	80	90	100	130	4.3		
			0.7		1.9	0.7	4.5	1.9	1.4	2.9	2.1	3.7	2.8	4.6	3.4	5.6	4.1	6.2	2.9	0.2	0.7	50	60	80	90	100	130	4.9			
			1.4		2.9	1.4	4.5	2.9	2.1	3.7	2.8	4.6	3.4	5.6	4.1	6.2	2.9	0.2	0.7	50	60	80	90	100	130	5.5					
			2.1		3.7	2.1	4.5	3.7	2.8	4.6	3.4	5.6	4.1	6.2	2.9	0.2	0.7	50	60	80	90	100	130	4							
1/8"	ER 250	Fluid Cap FC3 & Air Cap AC1801	0.4	7.7	1.4	0.7	1.9	0.7	2.9	1.4	3.7	2.1	3.7	2.8	4.6	3.4	5.6	4.1	6.2	2.9	0.2	0.7	50	60	80	90	100	130	3		
			0.7		1.9	0.7	9.5	1.9	1.4	2.9	2.1	3.7	2.8	4.6	3.4	5.6	4.1	6.2	2.9	0.2	0.7	50	60	80	90	100	130	4.3			
			1.4		2.9	1.4	9.5	2.9	2.1	3.7	2.8	4.6	3.4	5.6	4.1	6.2	2.9	0.2	0.7	50	60	80	90	100	130	4.9					
			2.1		3.7	2.1	9.5	3.7	2.8	4.6	3.4	5.6	4.1	6.2	2.9	0.2	0.7	50	60	80	90	100	130	5.2							
1/8"	ER 350	Fluid Cap FC6 & Air Cap AC1802	0.7	12	5.5	0.7	7.2	1.4	8.8	2.1	11.6	2.8	14.3	4.1	17.0	3.4	19.6	4.1	22.2	2.1	2.8	0.7	80	100	130	150	2.7				
			1.0		7.2	1.4	15	7.2	1.4	8.8	2.1	11.6	2.8	14.3	4.1	17.0	3.4	19.6	4.1	22.2	2.1	2.8	0.7	80	100	130	150	3.4			
			1.4		8.8	2.1	15	8.8	2.1	11.6	2.8	14.3	4.1	17.0	3.4	19.6	4.1	22.2	2.1	2.8	0.7	80	100	130	150	4.9					
			2.1		11.6	2.8	15	11.6	2.8	14.3	4.1	17.0	3.4	19.6	4.1	22.2	2.1	2.8	0.7	80	100	130	150	4.9							
1/4"	ER 450	Fluid Cap FC2 & Air Cap AC1802	0.7	19	5.5	0.7	7.2	1.4	8.8	2.1	11.6	2.8	14.3	4.1	17.0	3.4	19.6	4.1	22.2	2.1	2.8	0.7	80	100	130	150	4.6				
			1.0		7.2	1.4	23	7.2	1.4	8.8	2.1	11.6	2.8	14.3	4.1	17.0	3.4	19.6	4.1	22.2	2.1	2.8	0.7	80	100	130	150	5.2			
			1.4		8.8	2.1	23	8.8	2.1	11.6	2.8	14.3	4.1	17.0	3.4	19.6	4.1	22.2	2.1	2.8	0.7	80	100	130	150	5.5					
			2.1		11.6	2.8	23	11.6	2.8	14.3	4.1	17.0	3.4	19.6	4.1	22.2	2.1	2.8	0.7	80	100	130	150	5.5							
1/4"	ER 550	Fluid Cap FC1 & Air Cap AC1802	1	39	7.2	1.4	8.8	2.1	11.6	2.8	14.3	4.1	17.0	3.4	19.6	4.1	22.2	2.1	2.8	0.7	80	100	130	150	4.3						
			1.4		8.8	2.1	46	8.8	2.1	11.6	2.8	14.3	4.1	17.0	3.4	19.6	4.1	22.2	2.1	2.8	0.7	80	100	130	150	5.5					
			2.1		11.6	2.8	46	11.6	2.8	14.3	4.1	17.0	3.4	19.6	4.1	22.2	2.1	2.8	0.7	80	100	130	150	6.4							
			2.8		14.3	3.4	46	14.3	3.4	17	4.8	5.5	25.1	3.0	4.1	110	130	180	200	220	2.1	2.8	0.7	80	100	130	150	6.7			
1/4"	ER 650	Fluid Cap FC8 & Air Cap AC1803	1.0	39	11.6	1.4	14.1	1.7	16.6	2.8	18.8	3.4	21.3	4.1	23.8	3.8	26.3	4.5	28.8	2.1	2.8	0.7	80	100	130	150	4.6				
			1.4		14.1	1.7	46	14.1	1.7	16.6	2.8	18.8	3.4	21.3	4.1	23.8	3.8	26.3	4.5	28.8	2.1	2.8	0.7	80	100	130	150	6.4			
			1.7		16.6	2.1	46	16.6	2.1	18.8	3.4	21.3	4.1	23.8	3.8	26.3	4.5	28.8	3.4	31.9	4.8	5.5	25.1	3.0	4.1	110	130	180	200	6.7	
			2.1		18.8	2.8	46	18.8	2.8	23.2	3.8	27.7	4.1	31.9	4.8	44.8	6.2	48.8	5.5	52.3	6.2	6.2	2.1	2.8	0.7	80	100	130	150	6.7	
1/4"	ER 750	Fluid Cap FC9 & Air Cap AC1803	1.4	65	14.1	2.1	18.8	2.8	23.2	3.4	27.7	4.1	31.9	4.8	44.8	6.2	48.8	5.5	52.3	3.4	3.8	0.7	80	100	130	150	5.8				
			2.1		18.8	2.8	76	18.8	2.8	23.2	3.4	27.7	4.1	31.9	4.8	44.8	6.2	48.8	5.5	52.3	3.4	3.8	0.7	80	100	130	150	6.4			
			2.8		23.2	3.4	76	23.2	3.4	27.7	4.1	31.9	4.8	44.8	6.2	48.8	5.5	52.3	6.2	56.8	6.2	6.2	2.1	2.8	0.7	80	100	130	150	6.7	
			3.4		27.7	4.1	76	27.7	4.1	31.9	4.8	44.8	6.2	48.8	5.5	52.3	6.2	56.8	6.2	60.8	6.2	6.2	2.1	2.8	0.7	80	100	130	150	6.7	
1/4"	ER 850	Fluid Cap FC5 & Air Cap AC1803	2.8	95	23.2	3.8	29.8	4.5	36.1	5.5	40.5	6.2	44.8	6.2	48.8	5.5	52.3	6.2	56.8	3.4	3.8	0.7	80	100	130	150	6.1				
			3.4		29.8	4.5	109	29.8	4.5	36.1	5.5	40.5	6.2	44.8	6.2	48.8	5.5	52.3	6.2	56.8	3.4	3.8	0.7	80	100	130	150	5.8			
			3.8		36.1	4.8	109	36.1	4.8	40.5	6.2	44.8	6.2	48.8	5.5	52.3	6.2	56.8	6.2	60.8	6.2	6.2	2.1	2.8	0.7	80	100	130	150	5.5	
			4.5		40.5	5.5	109	40.5	5.5	44.8	6.2	48.8	5.5	52.3	6.2	56.8	6.2	60.8	6.2	64.8	6.2	6.2	2.1	2.8	0.7	80	100	130	150	5.5	

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.

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