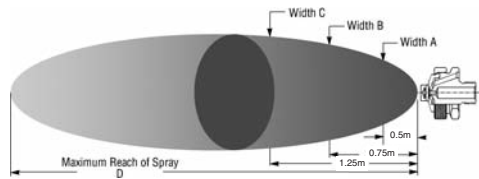


# X A E R

## 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 <sup>3</sup> /h	BAR air	L/h	Nm <sup>3</sup> /h	BAR air	L/h	Nm <sup>3</sup> /h	BAR air	L/h	Nm <sup>3</sup> /h	BAR air	L/h	Nm <sup>3</sup> /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	3	1.3	0.3	1.3	0.7	1.9	1.4	1.9	1.4	1.4	2.9	1.4	2.9	0.2	0.7	50	90	130	2.3	
			0.7	1.9	0.7	0.7	1.9	1.4	1.9	1.4	1.9	1.4	2.9	2.1	2.9	2.1	3.7	2.8	3.4	0.3	1.4	60	90	110	3	
			1.4	2.9	1.4	2.9	2.1	2.9	2.1	3.7	2.8	4.6	3.4	4.6	3.4	5.6	4.1	6.5	4.8	0.7	2.8	40	80	130	4.9	
			2.1	3.7	2.1	2.1	3.7	2.8	3.7	2.8	4.6	3.4	5.6	4.1	6.5	4.1	7.6	5.5	8.5	6.2	1.5	1.4	60	60	90	4.3
1/8"	ER 150	Fluid Cap FC4 & Air Cap AC1801	0.3	3.7	1.3	0.3	4.5	1.3	0.7	1.9	1.4	2.9	2.1	3.7	2.8	2.9	1.4	3.7	2.1	0.2	0.7	50	60	80	3	
			0.7	1.9	0.7	0.7	1.9	1.4	2.9	2.1	3.7	2.8	4.6	3.4	5.6	4.1	6.5	4.1	7.6	4.8	0.3	1.4	60	80	110	4.9
			1.4	2.9	1.4	2.9	2.1	2.9	2.1	3.7	2.8	4.6	3.4	5.6	4.1	6.5	4.1	7.6	4.8	0.7	2.8	60	80	100	5.5	
			2.1	3.7	2.8	4.6	3.4	4.6	3.4	5.6	4.1	6.5	4.1	7.6	4.8	8.5	6.2	9.4	6.2	1.5	1.4	80	80	130	4	
1/8"	ER 250	Fluid Cap FC3 & Air Cap AC1801	0.4	7.7	1.4	0.7	9.5	1.9	0.7	1.9	1.4	2.9	2.1	3.7	2.8	2.9	1.4	3.7	3.4	0.2	0.7	80	90	100	3	
			0.7	1.9	0.7	0.7	1.9	1.4	2.9	2.1	3.7	2.8	4.6	3.4	5.6	4.1	6.5	4.1	7.6	4.8	0.3	1.4	80	80	130	4.3
			1.4	2.9	1.4	2.9	2.1	2.9	2.1	3.7	2.8	4.6	3.4	5.6	4.1	6.5	4.1	7.6	4.8	0.7	2.8	70	80	120	4.3	
			2.1	3.7	2.8	4.6	3.4	4.6	3.4	5.6	4.1	6.5	4.1	7.6	4.8	8.5	6.2	9.4	6.2	1.5	1.4	80	90	130	5.2	
1/8"	ER 350	Fluid Cap FC6 & Air Cap AC1802	0.7	12	5.5	0.7	15	5.5	1.4	8.8	2.1	11.6	3.4	14.3	4.1	17	4.1	19.6	4.8	0.2	0.7	80	130	150	2.7	
			1.0	7.2	1.4	0.7	8.8	2.1	11.6	3.4	14.3	4.1	17	4.1	19.6	4.8	22.3	5.5	25.1	6.2	0.3	1.4	80	100	150	3.4
			1.4	11.6	2.8	14.3	3.4	17	4.1	19.6	4.1	22.3	5.5	25.1	6.2	26.9	5.5	28.7	6.2	0.7	2.8	80	100	150	4.9	
			2.1	14.3	3.4	17	4.1	19.6	4.1	22.3	5.5	25.1	6.2	26.9	5.5	28.7	6.2	30.5	6.2	1.5	2.1	80	100	150	4.6	
1/4"	ER 450	Fluid Cap FC2 & Air Cap AC1802	0.7	19	5.5	0.7	23	5.5	1	7.2	1.4	8.8	2.8	11.6	3.4	14.3	4.1	17	4.1	0.2	0.7	100	140	210	4.3	
			1.4	11.6	2.1	0.7	8.8	2.1	11.6	3.4	14.3	4.1	17	4.1	19.6	4.8	22.3	5.5	25.1	6.2	0.3	1.4	110	130	150	5.5
			2.1	14.3	2.8	17	4.1	19.6	4.1	22.3	5.5	25.1	6.2	26.9	5.5	28.7	6.2	30.5	6.2	0.7	2.8	100	110	140	6.4	
			2.8	17	3.4	4.1	19.6	4.8	22.2	5.5	25.1	6.2	26.9	5.5	28.7	6.2	30.5	6.2	32.3	6.2	1.5	2.1	120	110	160	6.1
1/4"	ER 550	Fluid Cap FC1 & Air Cap AC1802	1	39	7.2	1.4	46	8.8	2.8	11.6	3.4	14.3	4.1	17	4.1	19.6	4.8	22.3	5.5	0.2	1.4	140	150	220	4.9	
			1.4	8.8	2.1	0.7	11.6	2.8	14.3	3.4	17	4.1	19.6	4.1	22.3	5.5	25.1	6.2	26.9	5.5	0.3	1.4	130	150	230	4.6
			2.1	11.6	2.1	0.7	14.3	3.4	17	4.1	19.6	4.1	22.3	5.5	25.1	6.2	26.9	5.5	28.7	6.2	0.7	2.8	130	170	180	6.4
			2.8	14.3	3.4	4.1	19.6	4.8	22.3	5.5	25.1	6.2	26.9	5.5	28.7	6.2	30.5	6.2	32.3	6.2	1.5	2.8	110	150	240	6.7
1/4"	ER 650	Fluid Cap FC8 & Air Cap AC1803	1.0	39	11.6	1.4	46	14.1	2.1	16.6	2.8	18.8	3.4	21.5	4.1	24.2	4.8	26.9	5.5	0.2	1.4	130	150	200	5.2	
			1.4	14.1	1.7	0.7	16.6	2.1	18.8	3.4	21.5	4.1	24.2	4.8	26.9	5.5	28.7	6.2	30.5	6.2	0.3	1.4	150	140	150	6.7
			1.7	16.6	2.1	0.7	18.8	2.8	23.2	3.8	27.7	4.1	31.9	4.8	36.1	5.5	40.5	5.5	44.8	6.2	0.3	3.4	120	130	160	6.7
			2.1	18.8	2.8	0.7	23.2	3.4	27.7	4.1	31.9	4.8	36.1	5.5	40.5	5.5	44.8	6.2	48.6	6.2	0.7	4.1	130	140	170	6.7
1/4"	ER 750	Fluid Cap FC9 & Air Cap AC1803	1.4	65	14.1	2.1	76	18.8	2.8	23.2	3.4	27.7	4.1	31.9	4.8	36.1	5.5	40.5	5.5	0.2	1.4	150	150	220	5.8	
			2.1	18.8	2.8	0.7	23.2	3.4	27.7	4.1	31.9	4.8	36.1	5.5	40.5	5.5	44.8	6.2	48.6	6.2	0.3	2.1	140	160	200	6.4
			2.8	23.2	3.4	0.7	27.7	4.1	31.9	4.8	36.1	5.5	40.5	5.5	44.8	6.2	48.6	6.2	52.4	6.2	0.3	4.1	150	170	180	6.7
			3.4	27.7	4.1	0.7	31.9	4.8	36.1	5.5	40.5	5.5	44.8	6.2	48.6	6.2	52.4	6.2	56.2	6.2	0.7	4.1	130	130	180	6.7
1/4"	ER 850	Fluid Cap FC5 & Air Cap AC1803	2.8	95	23.2	3.8	109	29.8	4.5	34	5.5	40.5	6.2	44.8	6.2	48.6	6.2	52.4	6.2	0.2	2.8	150	160	180	6.7	
			3.4	27.7	4.1	0.7	31.9	4.8	36.1	5.5	40.5	6.2	44.8	6.2	48.6	6.2	52.4	6.2	56.2	6.2	0.3	4.8	90	110	150	5.8
			3.8	29.8	4.5	0.7	34	5.5	40.5	6.2	44.8	6.2	48.6	6.2	52.4	6.2	56.2	6.2	60.0	6.2	0.7	6.2	80	100	150	5.5
			4.1	31.9	4.8	0.7	36.1	5.5	40.5	6.2	44.8	6.2	48.6	6.2	52.4	6.2	56.2	6.2	60.0	6.2	1.5	5.5	90	100	150	5.5

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

AIR ATOMIZING

TO ORDER: specify pipe size, body style, spray set-up #, hardware and mounting assemblies, and material. See page 78.