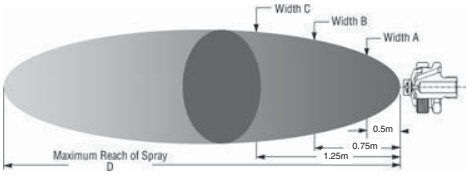
XAER

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 BAR air	L/h	Nm^3/h	0.3 BAR Liquid BAR air	L/h	Nm^3/h	0.7 BAR Liquid BAR air	L/h	Nm^3/h	1.5 BAR Liquid BAR air	L/h	Nm^3/h	3 BAR Liquid BAR air	L/h	Nm^3/h	Spray Dimensions BAR Liquid	BAR Air	A mm	B mm	C mm	D m
1/8" or 1/4"	ER 050	Fluid Cap FC7 & Air Cap AC1801	0.3 0.7 1.4 2.1	2.7	1.3 1.9 2.9 3.7	0.3 0.7 1.4 2.1 2.8	3	1.3 1.9 2.9 3.7 4.6	0.3 0.7 1.4 2.1 2.8 3.4	4.4	1.3 1.9 2.9 3.7 4.6 5.6	0.7 1.4 2.1 2.8 3.4 4.1 5.5	6.6	1.9 2.9 3.7 4.6 5.6 6.5 8.5	1.4 2.1 2.8 3.4 4.1 4.8 6.2	9.5	2.9 3.7 4.6 5.6 6.5 7.6 9.4	0.2 0.3 0.3 0.7 1.5 1.5 3.0	0.7 1.4 2.8 2.8 1.4 2.8 4.1	50 60 40 60 60 60 70	90 90 90 80 60 60 70	130 110 130 130 80 90 100	2.3 3 3.7 4.9 4.3 5.5 6.1
	ER 150	Fluid Cap FC4 & Air Cap AC1801	0.3 0.7 1.4 2.1 2.8	3.7	1.3 1.9 2.9 3.7 4.6	0.3 0.7 1.4 2.1 2.8 3.4	4.5	1.3 1.9 2.9 3.7 4.6 5.6	0.7 1.4 2.1 2.8 3.4 4.1	7.4	1.9 2.9 3.7 4.6 5.6 6.5	1.4 2.1 2.8 3.4 4.1 4.8 6.2	11	2.9 3.7 4.6 5.6 6.5 7.6 9.4	1.4 2.1 2.8 3.4 4.1 4.8 6.2	15	2.9 3.7 4.6 5.6 6.5 7.6 9.4	0.2 0.3 0.3 0.7 1.5 1.5 3.0	0.7 1.4 2.8 2.8 1.4 2.8 4.1	50 60 60 60 80 70 80	60 80 60 80 80 90 100	80 80 110 100 130 100 140	3 4.3 4.9 5.5 4 5.5 6.1
	ER 250	Fluid Cap FC3 & Air Cap AC1801	0.4 0.7 1.4 2.1 2.8 3.4	7.7	1.4 1.9 2.9 3.7 4.6 5.6	0.7 1.4 2.1 2.8 3.4 4.1	9.5	1.9 2.9 3.7 4.6 5.6 6.5	0.7 1.4 2.1 2.8 3.4 4.1	15	1.9 2.9 3.7 4.6 5.6 6.5	1.4 2.1 2.8 3.4 4.1 4.8 6.2	18	2.9 3.7 4.6 5.6 6.5 7.6 9.4	2.8 3.4 4.1 4.8 5.5 6.2	23	4.6 5.6 6.5 7.6 8.5 9.4	0.2 0.3 0.3 0.7 1.5 1.5 3.0	0.7 1.4 2.8 2.8 1.4 2.8 4.1	80 80 70 80 80 80 90	90 80 80 90 110 100 100	100 130 120 130 110 130 130	3 4.3 4.3 5.2 5.5 4.9 5.2
	ER 350	Fluid Cap FC6 & Air Cap AC1802	0.7 1.0 1.4 2.1 2.8 3.4	12	5.5 7.2 8.8 11.6 14.3 17	0.7 1.4 2.1 2.8 3.4 4.1	15	5.5 8.8 11.6 14.3 17.0 19.6	1.4 2.1 2.8 3.4 4.1	22	8.8 11.6 14.3 17 19.6	2.1 2.8 3.4 4.1 4.8 5.5 6.2	32	11.6 14.3 17 19.6 22.3 25.1 26.9	2.8 3.4 4.1 4.8 5.5 6.2	47	14.3 17 19.6 22.3 25.1 26.9	0.2 0.3 0.3 0.7 1.5 1.5 3.0	0.7 1.4 2.8 2.8 2.1 4.1 4.1	80 80 80 80 80 80 80	130 100 100 100 100 130 130	150 150 150 150 150 180 150	2.7 3.4 4.9 4.9 4.6 5.2 5.5
	ER 450	Fluid Cap FC2 & Air Cap AC1802	0.7 1 1.4 2.1 2.8 3.4	19	5.5 7.2 8.8 11.6 14.3 17	0.7 1 1.4 2.1 2.8 3.4 4.1	23	5.5 7.2 8.8 11.6 14.3 17 19.6	1 1.4 2.1 2.8 3.4 4.1 4.8	33	7.2 8.8 11.6 14.3 17 19.6 22.2	2.1 2.8 3.4 4.1 4.8 5.5	49	11.6 14.3 17 19.6 22.3 25.1	2.8 3.4 4.1 4.8 5.5	72	14.3 17 19.6 22.3 25.1	0.2 0.3 0.3 0.7 1.5 1.5 3.0	0.7 1.4 2.8 2.8 2.1 4.1 4.1	100 110 100 130 120 100 110	140 130 110 120 110 130 100	210 150 140 180 160 180 180	4.3 5.5 6.4 6.7 6.1 6.7 6.7
	ER 550	Fluid Cap FC1 & Air Cap AC1802	1 1.4 2.1 2.8 3.4	39	7.2 8.8 11.6 14.3 17	1.4 2.1 2.8 3.4 4.1	46	8.8 11.6 14.3 17 19.6	2.1 2.8 3.4 4.1 4.8 5.5	68	11.6 14.3 17 19.6 22.3 25.1	2.8 3.4 4.1 4.8 5.5	97	14.3 17 19.6 22.3 25.1	3.4 4.1 4.8 5.5	119	17 19.6 22.3 25.1	0.2 0.3 0.3 0.7 1.5 1.5 1.5 3.0	1.4 1.4 2.8 4.1 2.8 4.1 5.5 5.5	140 130 130 140 110 110 100 100	150 150 170 150 150 130 130 130	220 230 180 240 180 180 180 140	4.9 4.6 6.4 6.7 6.7 6.7 6.7 6.7
	ER650	Fluid Cap FC8 & Air Cap AC1803	1.0 1.4 1.7 2.1 2.8 3.4 4.1	39	11.6 14.1 16.6 18.8 23.2 27.7 31.9	1.4 1.7 2.1 2.8 3.4 3.8 4.1	46	14.1 16.6 18.8 23.2 27.7 29.8 31.9	2.1 2.8 3.4 3.8 4.1 4.5 4.8	68	18.8 23.2 27.7 29.8 31.9 34.0 36.1	3.4 3.8 4.1 4.5 4.8 5.5 6.2	97	27.7 29.8 31.9 34 36.1 40.5 44.8				0.2 0.3 0.3 0.7 1.5 1.5 1.5	1.4 2.1 3.4 4.1 3.4 4.8 6.2	130 150 130 130 130 100 100	150 140 130 140 150 130 130	200 150 160 170 150 180 180	5.2 6.7 6.7 6.7 6.7 5.5 5.5
	ER750	Fluid Cap FC9 & Air Cap AC1803	1.4 2.1 2.8 3.4 3.8 4.1 4.8	65	14.1 18.8 23.2 27.7 29.8 31.9 36.1	2.1 2.8 3.4 4.1 4.5 4.8 5.5	76	18.8 23.2 27.7 31.9 34 36.1 40.5	2.8 3.4 4.1 4.5 4.8 5.5 6.2	110	23.2 27.7 31.9 34 36.1 40.5 44.8	3.4 3.8 4.1 4.5 4.8 5.5 6.2	165	27.7 29.8 31.9 34 36.1 40.5 44.8				0.2 0.3 0.3 0.7 1.5 1.5 1.5	1.4 2.1 4.1 4.1 3.4 4.8 6.2	150 140 150 130 130 100 100	150 160 170 130 150 130 150	220 200 180 180 200 200 200	5.8 6.4 6.7 6.7 6.1 5.8 5.8
	ER850	Fluid Cap FC5 & Air Cap AC1803	2.8 3.4 3.8 4.1 4.5	95	23.2 27.7 29.8 31.9 34	3.8 4.1 4.5 4.8 5.5	109	29.8 31.9 34 36.1 40.5	4.5 4.8 5.5 6.2	158	34 36.1 40.5 44.8	5.5 6.2	234	40.5 44.8				0.2 0.3 0.7 0.7 1.5 1.5 1.5	2.8 4.8 4.8 6.2 5.5 6.2 6.2	150 90 90 80 90 80 80	160 110 110 100 100 100 100	180 180 150 150 150 150 140	6.7 6.1 5.8 5.5 5.5 5.8 5.8

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

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