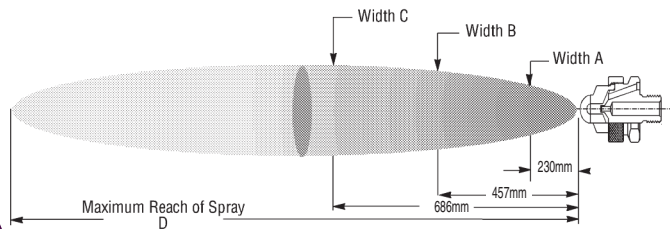


# 1/2 XA



## Air Atomizing

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

### AD 1/2" XA AD Set-up Flow Rates and Dimensions

Pressure-fed, Internal Mix, Wide Angle Round Spray Pattern, 1/2" Pipe Size, BSP or NPT

Pipe Size	Spray Set-up Number	Fluid and Air Cap Numbers	0.35 Bar Liquid			1.0 Bar Liquid			2.0 Bar Liquid			3.0 Bar Liquid			4.0 Bar Liquid			Spray Dimensions							
			Air (bar)	l/h	Nm <sup>3</sup> /h	Air (bar)	l/h	Nm <sup>3</sup> /h	Air (bar)	l/h	Nm <sup>3</sup> /h	Air (bar)	l/h	Nm <sup>3</sup> /h	Air (bar)	l/h	Nm <sup>3</sup> /h	air	liquid	A (mm)	B (mm)	C (mm)	D (m)		
1/2	AD 5050	Fluid Cap FC501 & Air Cap AC5601							2.1	213	10.6	3.1	316	12.8	4.2	238	21.1	2.1	2.0	360	480	690	6.7		
																			3.2	3.0	360	480	690	7.3	
																				4.3	4.0	360	480	690	8.5
	AD 5100	Fluid Cap FC501 & Air Cap AC5602	0.6	102	11.0	1.1	215	9.18	2.5	185	21.3	3.7	192	33.6	5.0	230	49.8	0.7	0.35	330	470	650	6.1		
			0.7	57	13.8	1.3	124	13.8	2.7	146	24.6	3.9	150	37.2	5.3	158	56.4	1.3	1.0	340	480	670	7.9		
			0.85	32	16.8	1.4	84	16.8	2.8	112	27.9	4.0	119	40.8	5.6	108	64.8	2.8	2.0	330	470	650	6.4		
																			4.0	3.0	340	480	670	7.3	
																			5.3	4.0	360	480	690	8.2	
	AD 5150	Fluid Cap FC501 & Air Cap AC5603	0.7	129	19.5	1.7	182	32.4	3.1	265	48.6	4.3	350	60.0				0.85	0.35	360	500	690	7.9		
			0.85	82	22.2	1.8	143	35.4	3.2	215	51.6	4.6	260	64.8				1.7	1.0	330	480	660	7.3		
			1.0	45	24.9				3.4	173	54.6	5.0	186	72.0				3.4	2.0	330	470	660	7.0		
									3.5	136	57.0								4.6	3.0	360	500	690	8.5	
									3.6	120	58.8														
	AD 5200	Fluid Cap FC502 & Air Cap AC5604	0.7	134	18.9	1.3	320	26.4	2.1	575	34.2	3.0	740	42.6	3.9	840	51.6	0.7	0.35	330	640	910	3.4		
0.85			100	22.8	1.4	255	31.2	2.2	505	38.4	3.1	690	46.2	4.1	790	55.8	1.4	1.0	330	660	910	4.9			
					1.5	200	35.4	2.4	440	43.2	3.2	630	50.4	4.2	740	59.4	2.5	2.0	280	560	810	6.1			
					1.7	154	40.2	2.5	380	47.4	3.4	570	54.6	4.4	690	64.2	3.4	3.0	280	530	740	6.7			
								2.7	330	51.6	3.5	520	58.8	4.5	650	68.4	4.5	4.0	280	560	790	7.6			
								2.8	275	55.8	3.7	470	63.0	4.6	600	72.6									
								3.0	235	60.6	3.8	420	67.2	4.8	550	76.8									
								3.1	195	64.8	3.9	345	71.4	4.9	510	81.0									
											4.1	325	75.6	5.1	465	85.8									
															5.2	425	89.4								
															5.3	390	93.6								
															5.5	350	98.4								

### PR 1/2" XA PR Set-up Flow Rates and Dimensions

Pressure-fed, Internal Mix, Round Spray Pattern, 1/2" Pipe Size, BSP or NPT

Pipe Size	Spray Set-up Number	Fluid and Air Cap Numbers	0.35 Bar Liquid			1.0 Bar Liquid			2.0 Bar Liquid			3.0 Bar Liquid			4.0 Bar Liquid			Spray Dimensions							
			Air (bar)	l/h	Nm <sup>3</sup> /h	Air (bar)	l/h	Nm <sup>3</sup> /h	Air (bar)	l/h	Nm <sup>3</sup> /h	Air (bar)	l/h	Nm <sup>3</sup> /h	Air (bar)	l/h	Nm <sup>3</sup> /h	air	liquid	A (mm)	B (mm)	C (mm)	D (m)		
1/2	PR 5050	Fluid Cap FC501 & Air Cap AC5501	1.3	34	21.0	1.7	146	21.9	3.0	230	30.6							1.4	0.35				6.7		
			1.4	25	23.4	1.8	121	23.7	3.1	200	33.0							2.0	1.0				7.3		
			1.5	20	24.9	2.0	102	25.8	3.2	176	35.4							3.2	2.0	90	160	250	8.2		
			1.7	15.5	26.7	2.1	86	27.6	3.4	154	37.2														
						2.3	72	29.4	3.5	135	39.6														
	PR 5100	Fluid Cap FC502 & Air Cap AC5502	0.7	134	18.9	1.3	320	26.4	2.1	575	34.2	3.0	740	42.6	3.9	840	51.6	0.7	0.35	100	180	230	7.0		
			0.85	100	22.8	1.4	255	31.2	2.2	505	38.4	3.1	690	46.2	4.1	790	55.8	1.4	1.0	150	250	330	6.4		
						1.5	200	35.4	2.4	440	43.2	3.2	630	50.4	4.2	740	59.4	2.5	2.0	130	200	250	11.3		
						1.7	154	40.2	2.5	380	47.4	3.4	570	54.6	4.4	690	64.2	3.4	3.0	100	180	250	12.5		
									2.7	330	51.6	3.5	520	58.8	4.5	650	68.4	4.5	4.0	100	180	250	14.3		
									2.8	275	55.8	3.7	470	63.0	4.6	600	72.6								
									3.0	235	60.6	3.8	420	67.2	4.8	550	76.8								
						3.1	195	64.8	3.9	345	71.4	4.9	510	81.0											
									4.1	325	75.6	5.1	465	85.8											
													5.2	425	89.4										
													5.3	390	93.6										
													5.5	350	98.4										

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.

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

**EF**

**1/2" XA EF Set-up Flow Rates and Dimensions**

Pressure-fed, External Mix, Flat Fan Spray Pattern, 1/2" Pipe Size, BSP or NPT

Pipe Size	Spray Set-up Number	Fluid and Air Cap Numbers	0.2 Bar Liquid			0.35 Bar Liquid			0.5 Bar Liquid			0.7 Bar Liquid			1.0 Bar Liquid			Spray Dimensions					
			Air (bar)	l/h	Nm <sup>3</sup> /h	Air (bar)	l/h	Nm <sup>3</sup> /h	Air (bar)	l/h	Nm <sup>3</sup> /h	Air (bar)	l/h	Nm <sup>3</sup> /h	Air (bar)	l/h	Nm <sup>3</sup> /h	bar air	bar liquid	A (mm)	B (mm)	C (mm)	D (m)
1/2	EF 5050	Fluid Cap FC501 & Air Cap AC5001	2.1		52.6	2.8		64.5	3.2		70.4	3.9		81.5	5.6		110	2.5	0.2	216	368	520	5.80
			2.5		57.7	3.2		70.4	3.5		76.4	4.2		87.4	6.0		117	3.5	0.4	229	420	550	6.71
			2.8	522	64.5	3.5	681	76.4	3.9	795	81.5	4.9	953	98.4	6.3	1158	122	3.9	0.5	241	445	580	7.02
			3.2		70.4	3.9		81.5	4.2		87.4	4.6		93.3	5.6		110	4.9	0.7	241	460	610	7.63
									4.2		4.9		117	6.0		132	6.3	1.0	254	480	660	8.85	

**PF**

**1/2" XA PF Set-up Flow Rates and Dimensions**

Pressure-fed, Internal Mix, Flat Fan Spray Pattern, 1/2" Pipe Size, BSP or NPT

Pipe Size	Spray Set-up Number	Fluid and Air Cap Numbers	0.35 Bar Liquid			1.0 Bar Liquid			2.0 Bar Liquid			3.0 Bar Liquid			4.0 Bar Liquid			Spray Dimensions							
			Air (bar)	l/h	Nm <sup>3</sup> /h	Air (bar)	l/h	Nm <sup>3</sup> /h	Air (bar)	l/h	Nm <sup>3</sup> /h	Air (bar)	l/h	Nm <sup>3</sup> /h	Air (bar)	l/h	Nm <sup>3</sup> /h	bar air	bar liquid	A (mm)	B (mm)	C (mm)	D (m)		
1/2	PF 5050	Fluid Cap FC501 & Air Cap AC5301				1.8	154	35.4	3.4	184	57.0							2.0	1.0	460	740	910	5.8		
						2.0	119	38.4	3.5	157	60.6								3.5	2.0	510	790	970	7.0	
						2.1	93	41.4	3.7	133	63.6	3.8	112	66.6											
	PF 5100	Fluid Cap FC502 & Air Cap AC5302	0.7	134	18.9	1.3	320	26.4	2.1	575	34.2	3.0	740	40.8	3.9	840	51.6	0.7	0.35	510	860	1190	4.0		
			0.85	100	22.8	1.4	255	31.2	2.2	505	38.4	3.1	690	43.2	4.1	790	55.8	1.4	1.0	860	1570	2110	4.6		
						1.5	200	35.4	2.4	440	43.2	3.2	630	46.1	4.2	740	59.4	2.5	2.0	860	1570	2080	5.2		
						1.7	154	40.2	2.5	380	47.4	3.4	570	50.8	4.4	690	64.2	3.4	3.0	910	1680	2160	5.8		
									2.7	330	51.6	3.5	520	54.1	4.5	650	68.4	4.5	4.0	910	1700	2260	6.4		
									2.8	275	55.8	3.7	470	59.3	4.6	600	72.6								
									3.0	235	60.6	3.8	420	63.3	4.8	550	76.8								
									3.1	195	64.8	3.9	345	69.2	4.9	510	81.0								
												4.1	325	74.1	5.1	465	85.8								
												5.2	425	89.4											
												5.3	390	93.6											
												5.5	350	98.4											

**SR**

**1/2" XA SR Set-up Flow Rates and Dimensions**

Siphon-fed, External Mix, Round Spray Pattern, 1/2" Pipe Size, BSP or NPT

Pipe Size	Set-up Number	Fluid and Air Cap Numbers	ATOMIZING AIR		Liquid Capacity in l/h (Liters Per Hour)						Spray Dimensions at 200 mm Siphon Ht.					
			Air (bar)	Air Capacity (Nm <sup>3</sup> /h)	Gravity Head			Siphon Height			Air (bar)	B (mm)	D (m)			
					450 mm	300 mm	150 mm	100 mm	200 mm	300 mm				600 mm		
1/2	SR 5050	Fluid Cap FC501 & Air Cap AC5201	0.7	21.6						40				1.5		6.1
			1.5	34.2						97	64			2.0		6.7
			2.0	39.6						117	90			3.0		7.3
			3.0	52.2						150	123	90		3.5	150	7.9
			3.5	59.4	300	260	225	163	133	104				4.0		8.8
			4.0	66.0	305	270	240	170	143	115				5.0		9.8
			5.0	78.0	315	280	250	183	157	129			53	5.6		10.7
			5.6	87.0	320	290	255	188	164	136			62			

**XW**

**1/2" XA XW Set-up Flow Rates and Dimensions**

Pressure-fed, Internal Mix, Extra-wide Angle, Hollow Cone Spray Pattern, 1/2" Pipe Size, BSP or NPT

Pipe Size	Spray Set-up Number	Fluid and Air Cap Numbers	0.7 Bar Liquid			1.4 Bar Liquid			2.1 Bar Liquid			2.8 Bar Liquid			4.2 Bar Liquid		
			Air (bar)	l/h	Nm <sup>3</sup> /h	Air (bar)	l/h	Nm <sup>3</sup> /h	Air (bar)	l/h	Nm <sup>3</sup> /h	Air (bar)	l/h	Nm <sup>3</sup> /h	Air (bar)	l/h	Nm <sup>3</sup> /h
1/2	XW 5050	Fluid Cap FC502 & Air Cap AC5401	1.0	213	20.7	1.7	394	27.2	2.5	439	38.0	3.4	462	47.2	5.0	484	68.3
			1.1	145	25.1	1.8	324	31.6	2.7	372	42.1	3.5	416	50.6	5.2	439	71.8
			1.3	98	34.5	2.0	275	34.4	2.8	322	45.0	3.7	372	53.4	5.3	409	75.2
			1.4	59	32.3	2.1	207	38.5	3.0	277	49.1	3.8	325	57.3	5.5	366	78.6
						2.3	159	42.1	3.1	272	52.4	3.9	282	61.1	5.6	325	82.0
						2.4	116	45.5	3.2	188	55.8	4.1	250	65.0	5.8	297	85.7
						2.5	93	49.7	3.4	145	59.4	4.2	209	68.1	5.9	257	89.1
						2.7	27	54.0	3.5	114	63.0	4.4	168	71.3	6.0	232	93.0
									4.5	141	75.5	6.3	182	100			
									4.6	77	77.7						

Standard Materials: Nickel-plated Brass, 303 Stainless Steel, and 316 Stainless Steel