AIR ATOMIZING NOZZLE





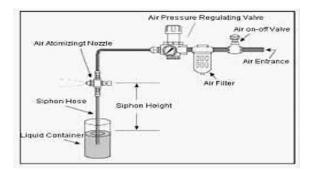




APPLICATION

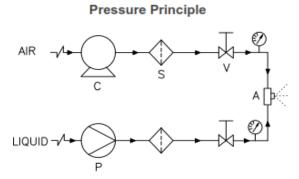
- ATOMIZING OF VISCOUS LIQUIDS
- COOLING
- GAS COOLING
- HUMIDIFICATION OF AIR
- HUMIDIFICATION OF GOODS
- ✤ LUBRICATION
- ✤ WEB DAMPENING





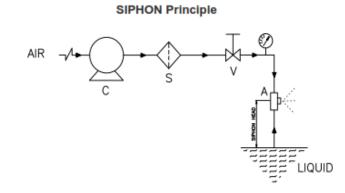
PRESSURE PRINCIPLE:

LIQUID IS SUPPLIED UNDER PRESSURISED FROM WITH THE HELP OF PUMP OF PRESSURISED CONTAINER SEPARATE COMPRESSED AIR IS NEEDED

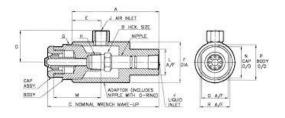


SIPHON PRINCIPLE:

SIPHON PRINCIPLE IS UTILISED TO LIFT LIQUID FROM CERTAIN HEIGHT FROM SPRAY NOZZLE, SUITABLE WHERE PUMP OR PRESSURISED CONTAINER OF LIQUID IS NOT AVAILABLE









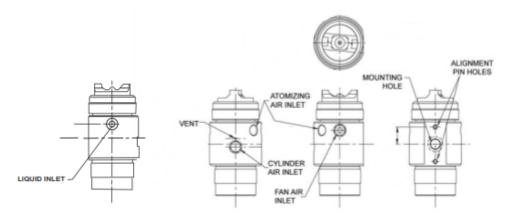
PRESSURE FED INTERNAL MIX FLAT SPRAY PATTERN

PIPE SIZE	MODEL NO	0.7 BAR LIQUID			1.5 BAR LIQUID			2 BAR LIQUID			3 BAR LIQUID			4 BAR LIQUID			SPRAT DIMISION	
																	C" EFFECTIVE SPRAY	D" MAX EFFECTIVE
		AIR(BAR)	1/H	Nm^3/H 1.44	AIR(BAR)	1/H 9.81	Nm^3/H	AIR(BAR)	1/H	Nm^3/H	AIR(BAR)	1/H 11.2	Nm^3/H	AIR(BAR)	1/H	Nm^3/H	LENGTH(mm)	SPRAY LENGTH(mm)
		0.7	5.5	1.44	1.3	9.81	1.86	2	8.6 7.5	2.52	2.7	10.1	3.12 3.36	3.9 4.6	12 9.75	4.14	{	
1/8	AP-EX-050	1.1	4.7	1.86	1.5	6.5	2.10	2.2	6.2	3.12	3.5	9.1	3.72	4.0	9.75	5.58	460	2.6
DR				2.04	2.1	5.4		2.5		3.42		8.1				6.24	660	2.6
0R 1/4		1.2	3.5	2.04	2.1	4.3	2.82	3.2	5.2	3.42	3.7 4.2	8.1 5.4	3.96	6 6.3	5.3 4.3	6.6	760	3.2
1/4		1.5	2.5	2.22	2.4	4.5	3.42	3.2	4.2	3.9	4.2	4.2	4.70	6.7	4.5	6.96	860	3.8
																<u> </u>		
		1.5	2	2.64	2.8	2.8	3.6	3.4	3.2	4.08	4.9	3.1	5.46	7	3.4	7.32	940	4
	_	1.3	3.9	1.8	2.1	7.4 5.3	2.4	3	6.1	3.12 3.24	3.9	9.4	3.6 4.02	5.3	10.2	4.68 5.04	460	10
4/0		1.4	3			4.4	2.7	3.1	5.3 4.5		4.2	7.2		5.6	8.3			1.8
1/8	AP-EX-100		2.3	2.1	2.5		2.82	3.2		3.42	3.6	5.3	4.38	6	6.6	5.34	640	
OR	APPLA-100	1.7	1.8	2.28	2.7	3.7	3	3.4	3.8	3.54	3.9	3.8	4.8	6.3	5.1	5.88	740	2
1/4		2.8	1.3	2.46	2.8	3.1	3.12	3.5	3.2	3.72							940	2.1
		2	1	2.64	3	2.6	3.3	3.9	1.8	4.08							970	2.3
					3.1	2.1	3.42											
		0.9	8.2	1.2	1.4	14.4	1.62	2.1	13.5	2.16	2.7	19.1	2.52	4.6	16.1	4.14	710	
4/2		1	6.8	1.38	1.7	11.6	1.92	2.4.	11.4	2.52	3	17.1	2.76	4.9	13.8	4.56	710	2.1
1/8	AP-EX-150	1.1	5.5	1.62	2	9.5	2.22	2.7	9.7	2.82	3.2	15.1	3.12	5.3	11.5	4.98	810	2.4
OR	AP-67-100	1.3	4.1	1.8	2.1	8.3	2.4	3	7.2	3.18	3.5	13.1	3.42	5.6	9.3	5.4	890	2.6
1/4		1.4	2.9	2.04	2.2	7.1	2.58	3.2	5	3.54	4.2	8.1	4.32	6	7.3	5.82	970	2.7
					2.4	6.1	2.76	3.4	4	3.78	4.6	5.9	4.74	6.3	5.6	6.24	970	3.2
			-		2.5	5.1	2.94	3.5	3.3	3.96	4.9	4	5.16	6.7	4.3	6.72		
		1	9	1.5	2	10.4	2.46	2.5	11.6	2.88	3.1	15.6	33.6	4.2	17.1	4.38		
		1.1	7.8	1.8	2.1	9.3	2.7	2.4	10.4	3.06	3.2	14.6	3.54	4.6	15	4.8	170	3
1/8		1.3	6.6	1.92	2.2	8.2	2.88	2.7	9.4	3.24	3.4	13.7	3.72	4.9	12.08	5.22	200	3.7
OR	AP-EX-200	1.4	5.2	2.16	2.5	6.1	3.3	2	7.3	3.66	3.8	10.8	4.26	5.3	11	5.64	220	4
1/4	ł	1.7	3.1	2.84	2.8	4.3	3.72	3.2	5.5	4.08	4.2	8.5	4.92	5.6	9.4	6.18	280	4.2
		2	2	3	3.1	3	4.14	3.5	4.1	4.5	4.9	5.2	5.88	6.3	7.2	7.14	330	4.8
		2.2	1.1	3.36	3.4	2	4.5	3.8	2.9	4.86	6	2.3	7.2	7	6.1	8.04		
		1.1	11.2	3.24	2.1	18	4.47	2.7	19.6	5.58	3.5	27	6.72	4.6	33	8.22		
		1.3	8.5	3.6	2.2	15.8	5.04	2.8	17.3	5.88	3.7	25	6.96	4.9	28	8.94	200	3
1/8	AP-EX-250	1.4	6.5	3.9	2.4	13.6	5.34	3	15.2	6.18	3.8	23	7.26	5.3	24	9.66	330	3.2
OR		1.5	5	4.26	2.5	11.6	5.7	3.1	13.2	6.54	3.9	21	7.56	5.6	19.7	10.4	400	3.4
1/4		1.7	3.8	4.62				3.2	11.4	6.84	4.1	18.9	7.92	6	15.7	11.2	460	3.5
											4.2	17	8.22	6.3	12.4	12	480	4
	AP-EX-300	0.9	27	1.98	21.8	38	3.3	2.4	39	4.02	3.2	58	4.56	4.6	59	6.3		
		1	20	1.28	2.1	38	3.96	2.7	30	4.62	3.5	47	5.22	5.3	40	7.92	300	3.4
1/8		1.1	15.9	2.7	2.2	24	4.26	3	24	5.22	3.8	38	5.82	5.6	32	8.7	410	3.5
OR		1.3	12.5	2.88	2.4	21	4.56	3.2	17.8	5.88	3.9	34	6.18	6	26	9.48	430	3.7
1/4		1.4	10.2	3.36	2.5	17.8	4.92	3.4	15.1	6.18	4.2	27	6.78	6.3	20	10.3	480	3.8
		1.5	7	3.72	2.7	15.1	5.22	3.5	12.9	6.54	4.6	20	7.56	6.7	15.9	11.1	510	4.4
								3.7	10.6	6.84	4.9	14.8	8.4	7	12.7	11.9		
		1	17	1.38	2	24	2.64	2.2	28	3.06	3.4	38	4.32	3.9	65	4.5		
	AP-EX-350	1.1	11	1.62	2.1	18.9	3	2.5	23	3.54	3.5	33	4.8	4.2	53	5.34	175	2.4
1/8		1.3	7.6	1.98	2.2	14.4	3.64	2.7	18.9	3.96	3.7	28	5.34	4.6	40	6.48	170	3
OR		1.4	3.2	2.4	2.4	10.6	3.78	2.8	15.1	4.44	3.8	23	5.82	4.9	30	7.62	220	3.4
1/4					2.5	7.2	4.26	3	11.7	4.74	3.8	19.7	6.3	5.6	21	8.94	280	3.6
											4.2	13.1	7.2	5.3	13.8	10.4	350	4
			20		10	50	7.03		100	7.44	4.6	7.2	8.28	6.3 4.1	3.2	13.5		
	AP-EX-400	1	29 18.9	5.4 6.48	1.8 2	56 40	7.02	2.1	100 79	7.14	3 3.1	126	8.4 9.06	4.1	140 120	10.9 11.6	250	3.4
1/8		1.1	10.5	0.40	4	40	7.50	2.2	62	8.82	3.2	95	9.06	4.2	89	13.9	430	3.8
0R								2.4	48	9.76	34	78	9.76	4.0	58	15.9	450	4.3
1/4								2.7	36	10.6	3.5	62	11.6	5.3	34	18.3	530	4.6
											3.7	48	12.6	5.6	16.7	20.4	580	5.2
											3.8	37	13.5					



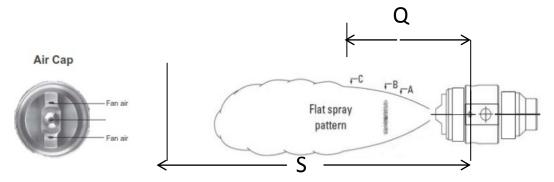


DETAILS OF INLET CONNECTION



- THE DIMENSION OF THE THAT SPRAY PATTERN ARE CONTROLLED BY THE COMBINATION OF FAN AIR PRESSURE AND ATOMIZING AIR PRESSURE
- THE LIQUID FLOW RATE IS CONSTANT AND NOT AFFECTED BY THE AIR PRESSURE





PRESSURE FED INTERNAL MIX FLAT SPRAY PATTERN

PIPE SIZE	SPRAY SET-	ATOMIZING AIR				SPRAY DIMISION AT 200mm							
	UP			G	RAVITY HEA	D		S	IPHON HEA	siphon height			
	NUMBER	AIR(BAR)	Nm^3/H	450mm	300mm	150mm	100mm	200mm	300mm	- 600mm	900mm	Q EFFECTIVE SPRAY	S MAX. SPRAY LENGTH mm
1/8 OR 1/4	AP-EX-050	0.7	0.66	1.5	1.1	1.1	0.9	0.7	0.5			280	1.8
		1.5	1.02	1.8	1.7	1.5	1.3	1.2	1.1	0.6		280	1.9
		3	1.68	2.1	1.9	1.7	1.5	1.4	1.3	1.1	0.8	300	2.3
		4	2.16	2.2	2	1.8	1.6	1.5	1.4	1.2	0.9	360	2.6
1/8 OR 1/4	AP-EX-150	0.7	0.78	2.4	2.1	1.7	1.5	1.2	0.8			300	2.1
		1.5	1.2	2.8	2.6	2.4	2.1	1.9	1.6	0.9		330	2.3
		3	1.92	3.4	3.1	2.9	2.8	2.6	2.4	1.7	1.1	430	2.6
		4	2.46	3.7	3.4	3.3	3.1	2.9	2.9	2.1	1.5	480	3
	AP-EX-200	0.7	1.38	2.5	2.3	2	1.6	1.4	1.1			300	2.4
1/8 OR 1/4		1.5	2.16	2.9	2.8	2.5	2.2	2	1.7	0.9		330	2.7
		3	3.48	3.4	3.3	3.2	2.9	2.8	2.5	1.9		430	3.4
		4	4.44	3.7	3.6	3.5	3.4	3.3	3	2.5		480	4
	AP-EX-250	0.7	1.14	4.5	4	3.4	2.1	1.8	1.4			380	3
1/8 OR 1/4		1.5	1.86	5.3	4.9	4.4	3.5	2.9	2.7	1.8		410	3.4
		3	3	6	5.6	5	4.4	4	3.4	2.4	1.2	460	4
		4	3.9	5.7	5.4	5	4.2	3.9	3.5	2.8	1.9	510	4.6
1/8 OR 1/4	AP-EX-400	1.5	3.48	22	19.9	16.3	12.3	10.5	8.3	2.8		460	3.7
		3	5.28	25	23	19.5	16.7	14.2	11.5	6.4	2.8	510	4.3
		4	6.66	26	24	21	18.4	15.7	12.9	7.9	4.5	530	4.9
		5.6	8.82	26	24	22	19.7	17	14.6	9.8	6.1	580	5.5
1/8 OR 1/4	AP-EX-450	2	8.64				27	22	16.8			510	6.7
		3	11.4				30	26	21			530	7
		4	14.4		43	40	31	28	23	11		580	7.6
		5.6	18.9	44	42	49	31	28	24	16.7	8.3	630	8.2

