



SPRAY COVERAGE DIAGRAM
DATA SHOWN IS THEORETICAL & DOES NOT TAKE INTO CONSIDERATION THE EFFECTS OF GRAVITY, GAS FLOW OR HIGH PRESSURE OPERATION.

SPRAY COVERAGE

Four terms are commonly used to describe spray coverage:

- > Spray Angle
- > Actual Spray Coverage
- > Effective Spray Angle
- > Theoretical Spray Coverage

SPRAY ANGLE

(A) The included angle of the spray as measured close to the nozzle orifice. Since the droplets are immediately acted upon by external forces (gravity and moving gases, for example), this measurement is useful only for determining spray coverage close to the nozzle. The spray angles listed for nozzles in this catalog are angles at the nozzle, measured at the nozzle's design pressure.

ACTUAL SPRAY COVERAGE

(B) The actual coverage at a specified distance (D) from the nozzle.

EFFECTIVE SPRAY ANGLE

(C) The angle calculated from the actual coverage (B) at a distance (D).

THEORETICAL SPRAY COVERAGE

(E) The coverage at distance (D) if the spray moved in a straight line.

THEORETICAL SPRAY COVERAGE (E) IN INCHES

Included Spray Angle (A)	Distance from Nozzle Orifice (D) (inches)										
	2	4	6	8	10	12	15	18	24	30	36
10°	0.4	0.7	1.1	1.4	1.8	2.1	2.6	3.1	4.2	5.2	6.3
20°	0.7	1.4	2.1	2.8	3.5	4.2	5.3	6.4	8.5	10.6	12.7
30°	1.1	2.1	3.2	4.3	5.4	6.4	8.1	9.7	12.8	16.1	19.3
40°	1.5	2.9	4.4	5.8	7.3	8.7	10.9	13.1	17.5	21.8	26.2
50°	1.9	3.7	5.6	7.5	9.3	11.2	14	16.8	22.4	28.0	33.6
60°	2.3	4.6	6.9	9.2	11.5	13.8	17.3	20.6	27.7		
70°	2.8	5.6	8.4	11.2	14	16.8	21	25.2	33.6		
80°	3.4	6.7	10.1	13.4	16.8	20.2	25.2	30.3	40.3		
90°	4.0	8.0	12.0	16.0	20.0	24.0	30.0	36.0	48.0		
100°	4.8	9.5	14.3	19.1	23.8	28.6	35.8	43.0			
110°	5.7	11.4	17.1	22.8	28.5	34.3	42.8	51.4			
120°	6.9	13.9	20.8	27.7	34.6	41.6	52.0	62.4			
130°	8.6	17.2	25.7	34.3	42.9	51.5	64.4				
140°	10.9	21.9	32.9	43.8	54.8	65.7					
150°	14.9	29.8	44.7	59.6	74.5						
170°	45.8	91.6									