



## SPRAY CHARACTERISTICS

- Coarse solid cone spray pattern with a relatively uniform distribution.
- Droplet sizes are generally larger than solid cone sprays with internal cores.
- Impact of spray is generally greater with narrower spray angles, assuming the same flow rate. Pressure increases affect spray angle.

## CONSTRUCTION AND MATERIALS

- Two piece assembly with no internal core.
- Unrestricted internal flow passages for resistance to clogging.
- Spray is projected at an axis of 90° from the nozzle inlet axis.
- Available with Male BSPT thread or Female BSPP thread.
- Brass and Stainless Steel are standard.
- Other materials available to special order.

## ORDER EXAMPLE

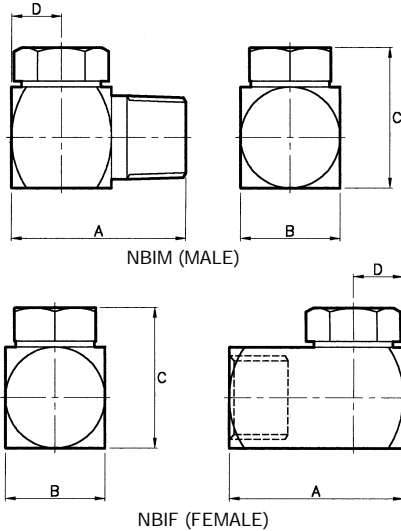
1/4" NBIM (Male) 11 Brass.

1/2" NBIF (Female) 63 Stainless Steel.

## DIMENSIONS AND WEIGHTS

Nozzle Size	Dimensions (mm)				Weight (g)
	A	B Sq	C	D	
1/4" M	28,5	15,9	19,0	8,0	50
1/4" F	28,5	15,9	19,0	8,0	63
3/8" M	35,0	19,0	24,0	9,5	85
3/8" F	35,0	19,0	24,0	9,5	95
1/2" M	44,5	25,4	30,5	12,7	175
1/2" F	44,5	25,4	30,5	12,7	190
3/4" M	57,0	31,8	38,0	16,0	335
3/4" F	57,0	31,8	38,0	16,0	350
1" M	76,0	38,1	46,0	19,0	660
1" F	76,0	38,1	46,0	19,0	680

Maximum Recommended Pressure:  
35 Bar.G. (Metal), 7 Bar.G. (Plastic).



## CAPACITY CHART

NOZZLE NUMBER		BSPT THREAD SIZE					FLOW RATE IN LITRES/MIN AT Bar.G.										SPRAY ANGLES (°) AT 2 Bar.G.
Female	Male	1/4	3/8	1/2	3/4	1	0,35	0,7	1	1,5	2	3	4	6	7	8	
NBIF 11	NBIM 11						1,63	2,32	2,87	3,62	4,05	4,87	5,36	6,30	6,74	7,06	64
NBIF 12	NBIM 12						2,09	2,79	3,41	4,09	4,55	5,30	5,91	7,02	7,58	8,01	70
NBIF 16	NBIM 16						2,50	3,58	4,41	5,30	6,14	7,27	8,00	9,51	10,04	10,61	60
NBIF 20	NBIM 20						3,11	4,46	5,46	6,50	7,54	9,06	10,00	11,92	12,63	13,43	73
NBIF 22	NBIM 22						3,58	5,11	6,24	7,51	8,32	9,78	10,91	13,23	14,24	14,95	80
NBIF 12	NBIM 12						2,00	2,79	3,32	4,19	4,73	5,83	6,60	7,79	8,17	8,65	45
NBIF 16	NBIM 16						2,50	3,58	4,41	5,30	6,14	7,27	8,00	9,51	10,04	10,61	60
NBIF 20	NBIM 20						3,11	4,46	5,46	6,50	7,54	9,06	10,00	11,92	12,63	13,43	73
NBIF 22	NBIM 22						3,58	5,11	6,24	7,51	8,32	9,78	10,91	13,23	14,24	14,95	80
NBIF 27	NBIM 27						4,23	6,04	7,42	9,01	10,10	12,32	13,64	16,06	17,47	18,08	53
NBIF 32	NBIM 32						5,81	7,25	8,88	10,81	12,32	14,44	15,96	19,29	20,40	22,12	70
NBIF 27	NBIM 27						4,23	6,04	7,42	9,01	10,10	12,32	13,64	16,06	17,47	18,08	53
NBIF 32	NBIM 32						5,81	7,25	8,88	10,81	12,32	14,44	15,96	19,29	20,40	22,12	70
NBIF 42	NBIM 42						6,74	9,67	11,82	14,44	15,96	19,29	21,41	24,95	27,37	28,48	76
NBIF 49	NBIM 49						8,17	11,62	14,24	16,36	18,69	23,13	25,05	29,29	32,52	33,94	86
NBIF 63	NBIM 63						10,20	14,44	17,07	20,50	23,84	28,89	32,22	38,48	41,31	43,94	80
NBIF 47	NBIM 47						7,48	10,61	13,03	14,95	17,78	21,11	26,63	28,48	30,20	31,71	57
NBIF 63	NBIM 63						10,20	14,44	17,07	20,50	23,84	28,89	32,22	38,48	41,31	43,94	69
NBIF 77	NBIM 77						12,32	17,68	20,50	23,94	29,09	34,95	38,68	45,65	49,29	52,02	73
NBIF 89	NBIM 89						13,94	20,00	23,74	29,39	33,63	40,00	44,54	52,92	56,26	59,29	85
NBIF 102	NBIM 102						14,85	20,91	27,37	33,73	38,68	46,26	50,00	60,10	64,54	67,87	97
NBIF 73	NBIM 73						11,92	16,26	20,00	22,62	27,78	34,24	38,68	45,65	50,00	52,02	41
NBIF 105	NBIM 105						16,26	23,23	27,78	33,73	39,79	48,18	52,32	62,42	67,37	71,51	57
NBIF 123	NBIM 123						19,49	28,38	34,64	42,32	46,56	57,77	63,63	75,95	80,40	85,55	73
NBIF 140	NBIM 140						22,73	32,02	38,18	45,25	53,23	62,12	68,18	80,80	85,95	90,90	81
NBIF 162	NBIM 162						25,55	36,26	44,64	53,03	61,41	72,22	79,08	95,14	101,00	108,07	86
NBIF 193	NBIM 193						28,79	41,81	50,10	60,70	73,23	87,57	99,08	119,18	128,27	135,34	100

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