

RBI

INDUSTRIAL SPRAY NOZZLES - SOLID CONE

SPRAY CHARACTERISTICS

- Uniform distribution of droplets in a solid cone spray pattern.
- Droplet size is larger than in hollow cone nozzles of equal capacity.
- Impact of spray is generally greater with narrower spray angles, assuming the same flow rate. Pressure increased affect spray angle.

CONSTRUCTION AND MATERIALS

- One piece body with pressed-in, crossed-milled core, fitting into a 90° adaptor.
- Core imparts the necessary swirl to produce a solid cone spray pattern.
- Available with Male BSPT and Female BSPP threads.
- Brass and 316 Stainless Steel are standard.
- Other materials available to special order.

ORDER EXAMPLE

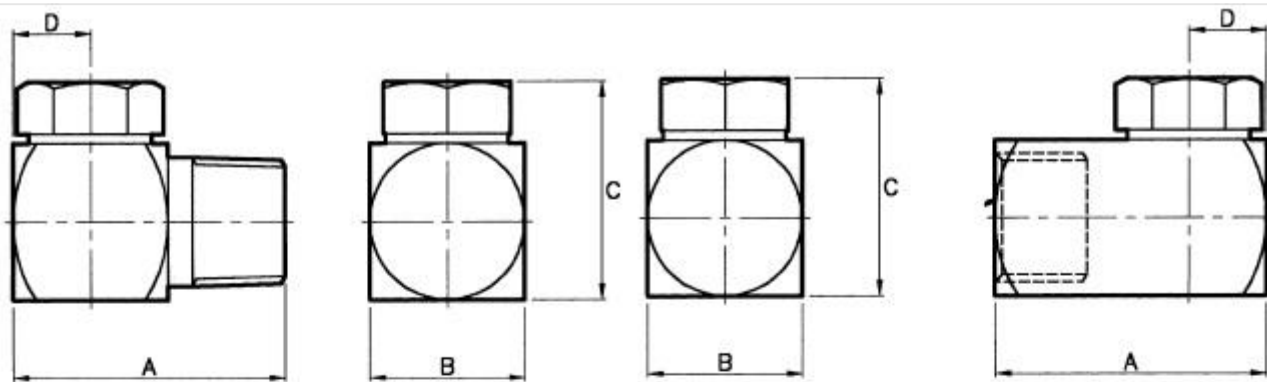
1/2" RBIF (Female) 32 Brass.

1/4" RBIM (Male) 11 Stainless Steel.

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



CAPACITY CHARTS



RBIM (MALE)

RBIF (FEMALE)

DIMENSIONS AND WEIGHTS

Thread Size	Nozzle Type	Dimensions (mm)				Weight (g)
		A	B	Sq C	D	
1/8"	RBIM	25,4	15,9	22,3	8,0	47
1/8"	RBIF	25,4	15,9	22,3	8,0	60
1/4"	RBIM	28,5	15,9	21,0	8,0	53
1/4"	RBIF	28,5	15,9	21,0	8,0	66
3/8"	RBIM	35,0	19,0	26,0	9,5	89
3/8"	RBIF	35,0	19,0	26,0	9,5	100
1/2"	RBIM	44,5	25,4	35,5	12,7	184
1/2"	RBIF	44,5	25,4	35,5	12,7	200
3/4"	RBIM	57,0	31,8	43,0	16,0	350
3/4"	RBIF	57,0	31,8	43,0	16,0	370
1"	RBIM	76,0	38,1	50,0	19,0	695
1"	RBIF	76,0	38,1	50,0	19,0	715

CAPACITY CHART

NOZZLE NUMBER		BSPT THREAD SIZE							FLOW RATE IN LITRES/MIN AT Bar.G.										SPRAY ANGLE (°) AT Bar.G.		
Female	Male	1/8	1/4	3/8	1/2	3/4	1	0,35	,7	1	1,5	2	3	4	6	7	8	,7	2	6	
RBIF 6	RBIM 6							0,88	1,25	1,50	1,88	2,18	2,65	2,87	3,41	3,54	3,76	40	47	40	
RBIF 8	RBIM 8							1,30	1,86	2,28	2,84	3,23	4,00	4,55	5,38	5,72	5,97	44	56	53	
RBIF 11	RBIM 11							1,63	2,32	2,87	3,62	4,05	4,87	5,36	6,30	6,74	7,06	52	64	58	
RBIF 12	RBIM 12							2,09	2,79	3,41	4,09	4,55	5,30	5,91	7,02	7,58	8,01	62	70	58	
RBIF 16	RBIM 16							2,50	3,58	4,41	5,30	6,14	7,27	8,00	9,51	10,04	10,61	57	60	55	
RBIF 20	RBIM 20							3,11	4,46	5,46	6,50	7,54	9,06	10,00	11,92	12,63	13,43	62	73	58	
RBIF 22	RBIM 22							3,58	5,11	6,24	7,51	8,32	9,78	10,91	13,23	14,24	14,95	70	80	62	
RBIF 12	RBIM 12							2,00	2,79	3,32	4,19	4,73	5,83	6,60	7,79	8,17	8,65	36	45	39	
RBIF 16	RBIM 16							2,50	3,58	4,41	5,30	6,14	7,27	8,00	9,51	10,04	10,61	57	60	55	
RBIF 20	RBIM 20							3,11	4,46	5,46	6,50	7,54	9,06	10,00	11,92	12,63	13,43	61	73	58	
RBIF 22	RBIM 22							3,58	5,11	6,24	7,51	8,32	9,78	10,91	13,23	14,24	14,95	70	80	62	
RBIF 27	RBIM 27							4,23	6,04	7,42	9,01	10,10	12,32	13,64	16,06	17,47	18,08	70	80	62	
RBIF 32	RBIM 32							5,81	7,25	8,88	10,81	12,32	14,44	15,96	19,29	20,40	22,12	70	80	62	
RBIF 27	RBIM 27							4,23	6,04	7,42	9,01	10,10	12,32	13,64	16,06	17,47	18,08	44	53	51	
RBIF 32	RBIM 32							5,81	7,25	8,88	10,81	12,32	14,44	15,96	19,29	20,40	22,12	60	70	61	
RBIF 42	RBIM 42							6,74	9,67	11,82	14,44	15,96	19,29	21,41	24,95	27,37	28,48	70	76	64	
RBIF 49	RBIM 49							8,17	11,62	14,24	16,36	18,69	23,13	25,05	29,29	32,52	33,94	79	86	72	
RBIF 63	RBIM 63							10,20	14,44	17,07	20,50	23,84	28,89	32,22	38,48	41,31	43,94	80	86	70	
RBIF 47	RBIM 47							7,48	10,61	13,03	14,95	17,78	21,11	26,63	28,48	30,20	31,71	43	57	42	
RBIF 63	RBIM 63							10,20	14,44	17,07	20,50	23,84	28,89	32,22	38,48	41,31	43,94	60	69	53	
RBIF 77	RBIM 77							12,32	17,68	20,50	23,94	29,09	34,95	38,68	45,65	49,29	52,02	70	73	60	
RBIF 89	RBIM 89							13,94	20,00	23,74	29,39	33,63	40,00	44,54	52,92	56,26	59,29	82	85	67	
RBIF 102	RBIM 102							14,85	20,91	27,37	33,73	38,68	46,26	50,00	60,10	64,54	67,87	85	97	74	
RBIF 73	RBIM 73							11,92	16,26	20,00	22,62	27,78	34,24	38,68	45,65	50,00	52,02	35	41	44	
RBIF 105	RBIM 105							16,26	23,23	27,78	33,73	39,79	48,18	52,32	62,42	67,37	71,51	51	57	49	
RBIF 123	RBIM 123							19,49	28,38	34,64	42,32	46,56	57,77	63,63	75,95	80,40	85,55	66	73	57	
RBIF 140	RBIM 140							22,73	32,02	38,18	45,25	53,23	62,12	68,18	80,80	85,95	90,90	75	81	52	
RBIF 162	RBIM 162							25,55	36,26	44,64	53,03	61,41	72,22	79,08	95,14	101,00	108,07	74	86	63	
RBIF 193	RBIM 193							28,79	41,81	50,10	60,70	73,23	87,57	99,08	119,18	128,27	135,34	82	100	80	