

BI

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 increases affect spray angle.

CONSTRUCTION AND MATERIALS

- One piece body with pressed in cross-milled core which is removable.
- Core imparts the necessary swirl to produce a solid cone spray pattern.
- Hexagon body for easy installation, eliminates distortion of orifice during installation.
- Available with Male BSPT and Female BSPP threads.
- Brass and 316 Stainless Steel are standard.
- Other materials available to special order.

ORDER EXAMPLE

1/4" BIM (Male) 22 Brass.

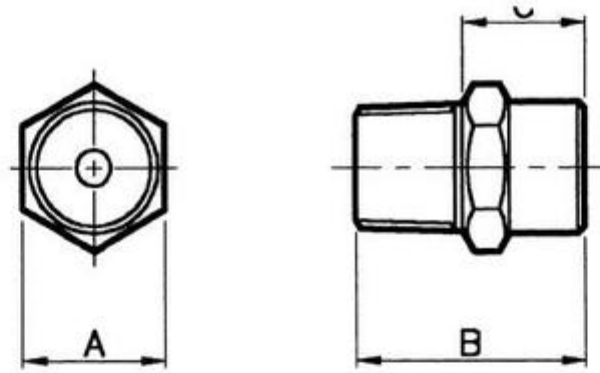
1/2" BIF (Female) 49 Stainless Steel.

Maximum Recommended Pressure:

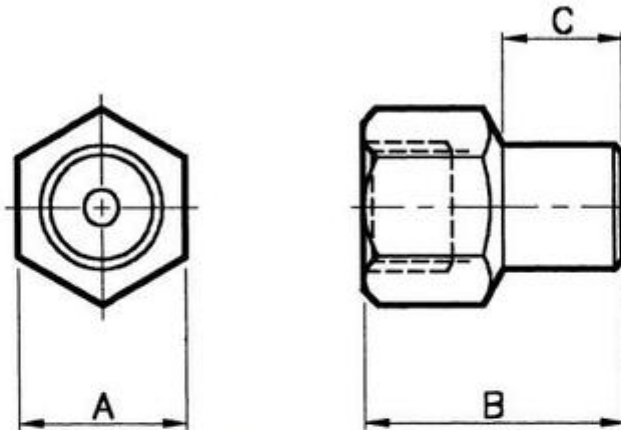
70 Bar.G. (Metal), 7 Bar.G. (Plastic)



CAPACITY CHARTS



BIM (MALE)



BIF (FEMALE)

DIMENSIONS AND WEIGHTS

Thread Size	Nozzle Type	Dimensions (mm)			Weight (g)
		A Hex	B	C	
1/8"	BIM	11,3	17,5	9,6	10
1/8"	BIF	15,3	25,4	13,5	21
1/4"	BIM	15,3	24,5	13,0	24
1/4"	BIF	18,0	27,8	12,7	35
3/8"	BIM	18,0	25,5	14,0	35
3/8"	BIF	20,8	38,9	21,1	58
1/2"	BIM	25,6	32,0	16,1	75
1/2"	BIF	25,6	50,0	28,3	118
3/4"	BIM	28,0	36,0	19,0	115
3/4"	BIF	31,8	62,7	31,5	215
1"	BIM	38,0	50,0	28,5	290
1"	BIF	38,0	81,0	51,0	330

CAPACITY CHART

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