



TechSpray Sprl
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Buses cône plein

NOZZLES

IT EN E



UGELLI A CONO PIENO

FULL CONE NOZZLES

BOQUILLAS DE CONO LLENO

CONO PIENO NORMALE B1-BB1

B1-BB1 FULL NORMAL CONE
CONO LLENO NORMAL B1-BB1

p. 20

CONO PIENO NORMALE E AMPIO BB5 - BB6

BB5-BB6 NORMAL AND WIDE TANGENTIAL FULL CONE
CONO LLENO NORMAL Y AMPLIO BB5-BB6

p. 25

CONO PIENO NORMALE PER GRANDI PORTATE B1

B1 LARGE CAPACITY NORMAL FULL CONE
CONO LLENO NORMAL PARA GRANDES CAUDALES

p. 21

CONO PIENO STRETTO B7 - BB7

B7-BB7 NARROW FULL CONE INJECTORS
INJECTOR DE CONO LLENO, ANGULO PEQUEÑO B7-BB7

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CONO PIENO AMPIO B2 - BB2

B2-BB2 WIDE FULL CONE AND LARGE CAPACITY
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TESTINE DI SPRUZZO A CONO PIENO BG - BGF

BG-BGF FULL CONE SPRAY
ORIFICIO DE PULVERIZACION DE CONO LLENO BG-BGF

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CONO PIENO SEZIONE QUADRATA B3 - BB3

B3-BB3 NORMAL SQUARE FULL CONE
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CONO PIENO B9S

B9S SPIRAL FULL CONE
CONO LLENO B9S

p. 28

CONO PIENO AMPIO SEZIONE QUADRATA B4

B4 WIDE SQUARE FULL CONE
CONO LLENO GRAN ANGULO ASPERSION CUADRADA B4

p. 24

CONO PIENO B9L

B9L SPIRAL FULL CONE LARGE FREE PASSAGE / FLOW
CONO LLENO B9L

p. 29

Questo tipo di spruzzo viene ottenuto tramite un vorticolatore particolare ad ampio passaggio posto all'interno dell'ugello. Distribuzione uniforme delle gocce su tutta la sezione coperta.

Materiali: Ottone e acciaioinox AISI 303.
Su richiesta AISI 316 -PVC - altri.

Filettature: Gas conico (BSPT).

This spray pattern is obtained using a particular internal vane with large flow passage. Uniform spray distribution on total coverage area.

*Materials: Brass and stainless steel.
On request AISI 316 PVC - others.*

Thread: Thread connection (BSPT).

Este tipo de pulverización se obtiene gracias a un aspersor de gran paso, posicionado en el interior de la boquilla. Distribución uniforme de las gotas sobre toda la superficie cubierta.

*Materiales: Latón, acero inox 303.
Bajo pedido Inox 316, PVC y otros.*

Rosca: Gas (BSPT).

Legenda

Ø1 = Ø orificio mm

Ø2 = Ø passaggio libero interno

∠° = angolo di spruzzo alle varie pressioni

Key

Ø1 = Ø orifice mm

Ø2 = Ø free internal passage

∠° = spray angle at different pressure

Lista de Abreviaturas

Ø1 = diámetro del orificio mm

Ø2 = diámetro de entrada al cuerpo mm

∠° = ángulo de aspersión a distintas presiones



CONO PIENO NORMALE B1 - BB1

B1-BB1 NORMAL FULL CONE
CONO LLENO NORMAL B1-BB1



F-BB1



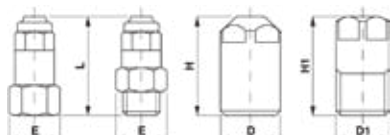
F-B1



M-BB1



M-B1



Caratteristiche

- I tipi BB hanno la testina rimovibile
- I tipi B sono a corpo unico

Applicazioni

- Lavaggi di ogni tipo
- Raffreddamenti
- Abbattimento schiume
- Trattamenti chimici
- Antincendio

Come ordinare

Es. 1/8" MBB1-5 OTTONE

Characteristics

- Types BB have removable caps.
- Types B one piece made.

Applications

- Washing processes
- Cooling
- Foam dispersion
- Chemical processes
- Fire protection

How to Order

E.g. 1/8" MBB1-5 BRASS

Características

- Tipo BB: cabeza intercambiable
- Tipo B: Cabeza de cuerpo único

Aplicaciones

- Lavado de todo tipo
- Enfriamiento
- Aspersión de espumas
- Tratamientos químicos
- Protección contra incendios

Para pedidos

Ej. 1/8" MBB1-5 LATON

MATERIALE MATERIAL MATERIAL	ATTACCO THREAD ROSCA DE CONEXIÓN	MODELLO MODEL MODELO	ORIFIZIO FLOW ORIFICE ORIFICIO	ANGOLO ANGLE ANGULO	CODICE ARTICLE CODE CÓDIGO
O	0	MBB15	-	-	O0MBB15

DIMENSIONI - DIMENSIONS - DIMENSIONES (mm)

Ø	E	L	D	H	D1	H1
1/8	16	31	-	-	13	22
1/4	20	37	-	-	14	22
3/8	25	40	-	-	17	25
1/2	31	50	-	-	21	31
3/4	-	-	32	55	27	40
1	-	-	38	70	35	52
1 - 1/4	-	-	53	86	-	-

TIPO DI UGELLO TYPE OF NOZZLE TIPOS DE BOQUILLAS		Ø1 mm	Ø2 mm	PRESSIONE - PRESSURE - A (bar)									bar		
				0.75	1	1.5	2	3	4	5	6	7	0.5	1.5	5
				PORTATA - CAPACITY - CAUDAL (l/min)									∇°	∇°	∇°
* 1/8 F - BB1 - 1	1/8 M - BB1 - 1	0.89	0.64	0.41	0.45	0.54	0.61	0.74	0.85	0.93	1.05	1.10	45	58	53
* 1/8 F - BB1 - 1.5	1/8 M - BB1 - 1.5	1.2	0.8	0.61	0.67	0.80	0.92	1.10	1.29	1.40	1.50	1.60	52	65	60
* 1/8 F - BB1 - 2	1/8 M - BB1 - 2	1.3	1.0	0.81	0.89	1.10	1.25	1.50	1.70	1.95	2.00	2.20	43	50	45
* 1/8 F - BB1 - 3	1/8 M - BB1 - 3	1.6	1.0	1.18	1.30	1.65	1.83	2.20	2.50	2.80	3.05	3.30	50	65	60
* 1/8 F - BB1 - 3.5	1/8 M - BB1 - 3.5	1.6	1.3	1.45	1.60	1.95	2.10	2.63	3.00	3.30	3.50	3.80	43	50	45
* 1/8 F - BB1 - 5	1/8 M - BB1 - 5	2.0	1.3	2.00	2.20	2.74	3.10	3.75	4.20	4.70	5.15	5.45	50	65	60
* 1/4 F - BB1 - 6.5	1/4 M - BB1 - 6.5	2.3	1.6	2.63	2.90	3.65	4.10	4.80	5.50	6.10	6.60	7.00	45	50	47
* 1/4 F - BB1 - 10	1/4 M - BB1 - 10	2.9	1.6	4.09	4.50	5.40	6.10	7.40	8.50	9.30	10.5	11.0	58	65	62
* 3/8 F - BB1 - 9.5	3/8 M - BB1 - 9.5	2.6	2.4	3.81	4.20	5.10	5.75	7.05	8.00	8.90	9.71	10.4	45	50	47
* 3/8 F - BB1 - 15	3/8 M - BB1 - 15	3.6	2.4	6.09	6.70	8.05	9.20	11.2	12.7	14.3	15.2	16.5	65	67	60
* 3/8 F - BB1 - 22	3/8 M - BB1 - 22	4.5	2.8	8.90	9.80	11.8	13.4	16.3	18.5	21.0	22.0	23.9	85	90	80
* 1/2 F - BB1 - 16	1/2 M - BB1 - 16	3.5	3.2	6.40	7.10	8.50	9.85	11.8	13.4	15.1	16.3	17.5	48	50	45
* 1/2 F - BB1 - 25	1/2 M - BB1 - 25	4.6	3.2	10.0	11.1	13.5	15.2	18.5	21.0	23.1	25.2	27.0	65	68	60
* 1/2 F - BB1 - 32	1/2 M - BB1 - 32	5.2	3.6	12.9	14.2	17.3	19.5	24.0	27.1	30.0	33.3	34.9	70	75	68
* 1/2 F - BB1 - 40	1/2 M - BB1 - 40	6.4	3.6	16.1	17.8	21.2	24.0	30.0	34.1	36.9	41.0	44.0	88	90	85
	1/8 M - B1 - 3	1.5	1.0	1.18	1.30	1.65	1.83	2.20	2.50	2.80	3.05	3.30	50	65	60
	1/8 M - B1 - 3.5	1.6	1.3	1.45	1.60	1.95	2.10	2.65	3.00	3.30	3.50	3.80	43	50	45
	1/8 M - B1 - 5	2.0	1.3	2.00	2.20	2.74	3.10	3.75	4.20	4.70	5.15	5.45	50	65	60
	1/4 M - B1 - 6.5	2.3	1.6	2.63	2.90	3.55	4.10	4.80	5.50	6.20	6.60	7.00	45	50	47
	1/4 M - B1 - 10	2.9	1.6	4.09	4.50	5.40	6.10	7.40	8.50	9.30	10.5	11.0	58	65	62
	3/8 M - B1 - 9.5	2.6	2.4	3.81	4.20	5.10	5.75	7.05	8.00	8.90	9.71	10.04	45	50	47
	3/8 M - B1 - 15	3.6	2.4	6.09	6.70	8.05	9.20	11.2	12.7	14.3	15.2	16.5	65	67	60
	3/8 M - B1 - 22	4.5	2.8	8.90	9.80	11.8	13.4	16.3	18.5	21.0	22.0	23.9	85	90	80
	1/2 M - B1 - 25	4.6	3.2	10.0	11.1	13.5	15.2	18.5	21.0	23.1	25.2	27.0	65	68	60
	1/2 M - B1 - 40	6.4	3.6	16.1	17.8	21.2	24.0	30.0	34.1	36.9	41.0	44.0	88	90	85
* 3/4 F - B1 - 2.5	3/4 M - B1 - 2.5	4.9	4.5	11.9	13.1	15.9	18.1	21.8	25.0	28.0	30.0	32.0	48	50	45
* 3/4 F - B1 - 4	3/4 M - B1 - 4	6.4	4.5	19.1	21.0	25.1	28.8	35.1	40.0	44.0	48.0	50.8	68	70	65
* 3/4 F - B1 - 7	3/4 M - B1 - 7	9.5	5.2	33.6	37.0	44.2	51.3	61.0	70.0	77.0	84.3	90.0	90	95	85
* 1 F - B1 - 4.2	1 M - B1 - 4.2	6.0	5.6	20.0	22.0	27.0	30.3	37.2	42.5	46.0	50.0	53.8	48	50	45
* 1 F - B1 - 7	1 M - B1 - 7	8.3	5.6	9.0	37.0	44.1	51.0	61.2	70.0	77.0	83.9	90.0	65	68	60
* 1 F - B1 - 10	1 M - B1 - 10	11.9	5.6	47.2	52.0	63.0	72.0	87.1	99.0	110.0	120.0	130.0	75	78	70
* 1 F - B1 - 12	1 M - B1 - 12	11.9	6.0	57.2	63.0	76.0	87.0	104.0	119.0	131.0	144.0	155.0	90	93	85

* materiali su richiesta - material on request - bajo pedido

CONO PIENO NORMALE PER GRANDI PORTATE B1

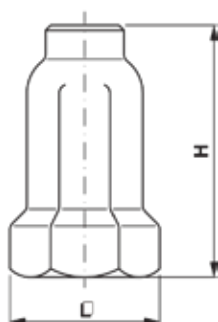
B1 LARGE CAPACITY

NORMAL FULL CONE

CONO LLENO NORMAL PARA GRANDES CAUDALES B1



F-B1



Caratteristiche

- Ugelli in inox 303 o AISI 316
- A richiesta inPVC

Applicazioni

- Processi industriali e chimici
- Raffreddamenti
- Lavaggi

Come ordinare

Es. 2" FB1-17 AISI 316

Characteristics

- S.S., AISI 316 nozzles
- On request PVC made

Applications

- Industrial processes and chemical
- Cooling
- Washes

How to Order

E.g. 2" FB1-17 S.S. 316

Características

- Latón, Acero 303, Acero Inoxidable AISI 316
- PVC bajo pedido

Aplicaciones

- Procesos industriales y químicos
- Enfriamiento
- Lavado

Para pedidos

Ej. 2" FB1-17 AISI 316

MATERIALE MATERIAL MATERIAL	ATTACCO THREAD ROSCA DE CONEXIÓN	MODELLO MODEL MODELO	ORIFIZIO FLOW ORIFICE ORIFICIO	ANGOLO ANGLE ANGULO	CODICE ARTICLE CODE CÓDIGO
A	8	FB117	-	-	A8FB117

DIMENSIONI - DIMENSIONS - DIMENSIONES (mm)

Ø	H	L
1 1/4	86	53
1 1/2	102	58
2	135	75
2 1/2	175	86

TIPO DI UGELLO TYPE OF NOZZLE TIPOS DE BOQUILLAS	Ø1 mm	Ø2 mm	PRESSIONE - PRESSURE - PRESIÓN (bar)										bar		
			0.75	1	1.5	2	3	4	5	6	7	0.5	1.5	5	
			PORTATA - CAPACITY - CAUDAL (l/min)										◁°	◁°	◁°
* 1 1/4 F - B1 - 6	17.6	6.5	28	31	38	48	51	60	66	73	78	48	50	45	
* 1 1/4 F - B1 - 10	19.5	6.4	47	52	62	72	87	100	110	121	129	65	68	60	
* 1 1/4 F - B1 - 12	10.6	6.5	57	63	76	87	105	120	132	145	155	65	70	62	
* 1 1/4 F - B1 - 14	12.4	6.5	66	73	88	100	122	140	155	168	180	77	80	73	
* 1 1/4 F - B1 - 20	15	8	95	105	125	145	174	199	221	240	255	90	95	85	
* 1 1/2 F - B1 - 10	9.6	8.8	47	52	62	72	87	100	110	121	129	48	5	45	
* 1 1/2 F - B1 - 16	12.6	8.8	76	84	100	115	140	160	175	192	205	72	75	65	
* 1 1/2 F - B1 - 20	14.2	8.8	95	105	125	145	174	199	221	240	255	75	77	70	
* 1 1/2 F - B1 - 30	18.2	10.3	142	157	190	215	260	300	330	360	386	90	95	85	
* 2 F - B1 - 17	12.6	11.2	80	89	107	125	148	170	170	205	220	48	50	45	
* 2 F - B1 - 30	17.2	11.2	142	157	190	215	260	300	300	360	386	70	75	65	
* 2 F - B1 - 35	19.1	11.2	168	184	220	250	305	345	345	421	450	75	77	70	
* 2 F - B1 - 40	22.0	11.2	190	210	250	290	348	398	398	480	510	78	80	75	
* 2 F - B1 - 50	23.7	14.4	236	260	315	361	434	495	495	600	642	83	85	78	
* 2 F - B1 - 60	28.5	14.4	280	310	380	430	510	600	600	730	780	98	100	90	
* 2 1/2 F - B1 - 25	15.0	14.4	119	131	158	180	215	250	250	300	322	48	50	45	
* 2 1/2 F - B1 - 50	22.1	14.4	236	260	315	361	434	495	495	600	642	70	75	65	
* 2 1/2 F - B1 - 60	24.5	14.4	280	310	380	430	510	600	600	730	780	75	78	72	
* 2 1/2 F - B1 - 70	28.5	14.4	331	365	440	510	510	700	700	838	900	80	85	75	
* 2 1/2 F - B1 - 80	28.5	14.4	381	420	510	580	705	800	800	960	1030	85	88	80	
* 2 1/2 F - B1 - 90	31.7	14.4	427	470	570	650	780	890	890	1080	1160	95	98	90	

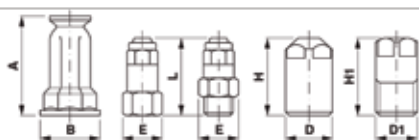
* materiali su richiesta - material on request - bajo pedido



CONO PIENO AMPIO B2 - BB2

B2 - BB2 WIDE FULL CONE

CONO LLENO GRAN ANGULO B2-BB2



Caratteristiche

- I tipi BB hanno la testina rimovibile
- I tipi B sono a corpo unico
- I tipi per grosse portate F-B2 (1) sono in AISI 316

Applicazioni

- Lavaggi
- Raffreddamenti
- Abbattimento schiume
- Antincendio
- Lavaggio aria e gas
- Trattamenti chimici

Come ordinare

Es. 1/4" MBB2-10 INOX

Characteristics

- Types BB have removable caps.
- Types B one piece made
- Large capacity types F-B2 (1) S.S. AISI 316 made

Applications

- Washing
- Cooling
- Foam dispersion
- Fire protection
- Air and gas washing
- Chemical processes

How to Order

E.g. 1/4" MBB2-10 S.S. 316

Características

- Tipo BB: Cabeza intercambiable
- Tipo B: Boquilla de una sola pieza
- Las boquillas tipo F-B2 (1) de gran caudal son de inox 316

Aplicaciones

- Lavado
- Enfriamiento
- Aspersión de espumas
- Protección contra incendios
- Lavado de aire y gas
- Tratamientos químicos

Para pedidos

Ej. 1/4" MBB2-10 INOX 316

MATERIALE MATERIAL MATERIAL	ATTACCO THREAD ROSCA DE CONEXIÓN	MODELLO MODEL MODELO	ORIFIZIO FLOW ORIFICE ORIFICIO	ANGOLO ANGLE ANGULO	CODICE ARTICLE CODE CÓDIGO
I	1	MBB210	-	-	I1MBB210

DIMENSIONI - DIMENSIONS - DIMENSIONES (mm)

Ø	E	L	D	H	D1	H1	A	B
1/8	16	30	-	-	13	-	-	-
1/4	20	38	-	-	17	23	-	-
3/8	25	47	-	-	21	30	-	-
1/2	31	58	25	45	27	34	-	-
3/4	-	-	32	55	35	40	-	-
1	-	-	38	70	-	55	-	-
1 1/4	-	-	-	-	-	-	96	53
1 1/2	-	-	-	-	-	-	102	58
2	-	-	-	-	-	-	139	75
2 1/2	-	-	-	-	-	-	175	96

TIPO DI UGELLO TYPE OF NOZZLE TIPOS DE BOQUILLAS				Ø1 mm	Ø2 mm	PRESSIONE - PRESSURE - PRESIÓN (bar)										bar		
						0.75	1	1.5	2	3	4	5	6	7	0.5	1.5	5	
						PORTATA - CAPACITY - CAUDAL (l/min)										°	°	°
*	1/8	F - BB2 - 2.8	1/8	M - BB2 - 2.8	1.5	0.8	1.00	1.20	1.51	1.70	2.00	2.30	2.50	2.70	3.00	120	120	100
*	1/8	F - BB2 - 4.3	1/8	M - BB2 - 4.3	2.0	1.0	1.72	1.90	2.30	2.55	3.20	3.55	3.95	4.24	4.80	120	120	100
*	1/8	F - BB2 - 5.6	1/8	M - BB2 - 5.6	2.4	1.0	2.27	2.50	3.10	3.50	4.10	4.60	5.05	5.50	6.15	120	120	100
*	1/8	F - BB2 - 8	1/8	M - BB2 - 8	2.5	1.3	3.18	3.50	4.30	4.80	5.70	6.50	7.20	7.90	8.55	120	120	105
*	1/4	F - BB2 - 10	1/4	M - BB2 - 10	3.0	1.6	4.00	4.40	5.35	6.05	7.20	8.15	8.95	9.7	10.8	120	120	105
*	1/4	F - BB2 - 12	1/4	M - BB2 - 12	3.3	1.8	4.80	5.30	6.34	7.22	8.55	9.80	10.70	11.7	12.8	120	120	105
*	1/4	F - BB2 - 14	1/4	M - BB2 - 14	3.7	1.6	5.60	6.20	7.50	8.45	10.00	11.40	12.50	13.5	15.0	120	120	105
*	3/8	F - BB2 - 17	3/8	M - BB2 - 17	3.7	2.4	7.09	7.50	9.05	10.2	12.3	13.8	15.30	16.5	18.5	120	120	102
*	3/8	F - BB2 - 20	3/8	M - BB2 - 20	4.4	2.4	8.00	8.80	10.5	12.0	14.5	16.4	18.1	19.4	21.8	120	120	105
*	3/8	F - BB2 - 24	3/8	M - BB2 - 24	4.5	2.8	9.63	10.6	12.7	14.5	17.2	19.5	22.0	23.0	25.8	120	120	105
*	3/8	F - BB2 - 27	3/8	M - BB2 - 27	4.7	3.0	10.8	11.9	14.1	16.3	19.5	21.9	24.0	26.0	29.2	120	120	105
*	1/2	F - BB2 - 30	1/2	M - BB2 - 30	5.1	3.2	12	13.3	15.7	18.1	22.1	24.0	26.9	29.0	33.0	120	120	110
*	1/2	F - BB2 - 35	1/2	M - BB2 - 35	5.9	3.2	14.1	15.5	18.4	21.0	25.1	29.0	30.9	35.0	37.0	120	120	110
*	1/2	F - BB2 - 40	1/2	M - BB2 - 40	6.4	3.6	16.1	17.7	21.2	24.3	29.0	33.0	36.2	38.8	43.5	120	120	110
*	1/2	F - BB2 - 45	1/2	M - BB2 - 45	6.4	4.3	18.1	19.9	24.0	27.5	32.6	37.0	40.1	44.5	49.0	120	120	110
*	1/2	F - BB2 - 50	1/2	M - BB2 - 50	6.7	4.3	20.0	22.0	26.5	30.4	36.3	40.9	45.0	50.1	54.4	120	120	115
*	1/4	F - B2 - 14	1/4	M - B2 - 14	3.7	1.6	5.60	6.20	7.50	8.45	10.0	11.4	12.5	13.5	15.0	120	120	105
*	3/8	F - B2 - 17	3/8	M - B2 - 17	3.7	2.4	7.1	7.5	9.0	10.2	12.3	13.8	15.3	16.5	18.5	120	120	102
*	3/8	F - B2 - 20	3/8	M - B2 - 20	4.4	2.4	8.0	8.8	10.5	12.0	14.5	16.4	18.1	19.4	21.8	120	120	105
*	3/8	F - B2 - 24	3/8	M - B2 - 24	4.5	2.8	9.6	10.6	12.7	14.5	17.2	19.5	22.0	23.0	25.8	120	120	105
*	3/8	F - B2 - 27	3/8	M - B2 - 27	4.7	3.0	10.8	11.9	14.1	16.3	19.5	21.9	24.0	26.0	29.2	120	120	105
*	1/2	F - B2 - 30	1/2	M - B2 - 30	5.1	3.2	12.0	13.3	15.7	18.1	22.1	24.0	26.9	29.0	33.0	120	120	110
*	1/2	F - B2 - 35	1/2	M - B2 - 35	5.9	3.2	14.1	15.5	18.4	21.0	25.1	29.0	30.9	35.0	37.0	120	120	110
*	1/2	F - B2 - 40	1/2	M - B2 - 40	6.4	3.6	16.1	17.7	21.2	24.3	29.0	33.0	36.2	38.8	43.5	120	120	110
*	1/2	F - B2 - 45	1/2	M - B2 - 45	6.6	4.3	16.1	19.9	24.0	27.5	32.6	37.0	40.1	44.5	49.0	120	120	110
*	1/2	F - B2 - 50	1/2	M - B2 - 50	6.7	4.3	20.0	22.0	26.5	30.4	36.3	40.9	45.0	50.1	54.4	120	120	115
*	3/4	F - B2 - 6	3/4	M - B2 - 6	9.7	4.5	28	31	37	42	50	50	63	68	75	120	120	110
*	1	F - B2 - 11	1	M - B2 - 11	13.0	5.7	51	57	68	77	92	104	115	125	138	120	125	115
*	1 1/4	F - B2 - 16 (1)			15.4	6.6	75	83	100	112	135	152	168	182	207	120	125	120
*	1 1/2	F - B2 - 24 (1)			18.1	10.3	112	124	149	170	200	231	250	276	300	125	125	120
*	2	F - B2 - 47 (1)			24.9	11.2	222	245	290	330	394	445	495	540	590	125	125	120
*	2 1/2	F - B2 - 70 (1)			31.7	14.4	327	360	430	490	591	670	739	800	890	125	125	120

* materiali su richiesta - material on request - bajo pedido

CONO PIENO SEZIONE QUADRATA B3 - BB3

B3 - BB3 NORMAL SQUARE

FULL CONE

CONO LLENO DE ASPERSIÓN CUADRADA B3 - BB3



Caratteristiche

- I tipi BB hanno la testina rimovibile
- I tipi B sono a corpo unico
- I tipi per grosse portate F-B3 (1) sono in AISI 316

Applicazioni

- Lavaggi
- Raffreddamenti
- Abbattimento schiume
- Antincendio
- Lavaggio aria e gas
- Trattamenti chimici

Characteristics

- Types BB have removable caps
- Types B one piece made
- Large capacity types F-B3 (1) S.S. AISI 316 made

Applications

- Washing
- Cooling
- Foam dispersion
- Fire protection
- Air and gas washing
- Chemical processes

Características

- Tipo BB: Cabeza intercambiable
- Tipo B: Boquilla de una sola pieza
- Las boquillas tipo F-B3 (1) de gran caudal son de inox 316

Aplicaciones

- Lavado
- Enfriamiento
- Aspersión de espumas
- Protección contra incendios
- Lavado de aire y gas
- Tratamientos químicos

Come ordinare

Es. 3/8" MB3-18 OTTONE

How to Order

E.g. 3/8" MBB3-18 BRASS

Para pedidos

Ej. 3/8"MB3-18 LATON

MATERIALE MATERIAL MATERIAL	ATTACCO THREAD ROSCA DE CONEXIÓN	MODELLO MODEL MODELO	ORIFIZIO FLOW ORIFICE ORIFICIO	ANGOLO ANGLE ANGULO	CODICE ARTICLE CODE CÓDIGO
O	2	MB318	-	-	O2MB318

DIMENSIONI - DIMENSIONS - DIMENSIONES (mm)

Ø	E	L	L1	D	H	D1	H1	A	B
1/8	15	29	32	-	-	13	22	-	-
1/4	17	35	37	-	-	13	23	-	-
3/8	21	40	40	-	-	17	24	-	-
1/2	25	48	48	-	-	21	30	-	-
3/4	-	-	-	-	-	27	39	-	-
1	-	-	-	38	68	-	-	-	-
1 1/4	-	-	-	-	-	-	-	84	53
1 1/2	-	-	-	-	-	-	-	103	58
2	-	-	-	-	-	-	-	136	77
2 1/2	-	-	-	-	-	-	-	170	86

TIPO DI UGELLO TYPE OF NOZZLE TIPOS DE BOQUILLAS				Ø1 mm	Ø2 mm	PRESSIONE - PRESSURE - PRESIÓN (bar)										bar		
						0.75	1	1.5	2	3	4	5	6	7	0.5	1.5	5	
						PORTATA - CAPACITY - CAUDAL (l/min)										◁°	◁°	◁°
* 1/8	F - BB3 - 3.6	1/8	M - BB3 - 3.6	1.6	1.3	1.45	1.60	1.90	2.20	2.60	3.10	3.50	3.70	3.90	40	50	45	
* 1/8	F - BB3 - 6	1/8	M - BB3 - 6	2.2	1.3	2.45	2.70	3.20	3.70	4.650	5.10	5.60	6.20	6.50	60	65	60	
* 1/4	F - BB3 - 10	1/4	M - BB3 - 10	2.9	1.6	4.09	4.50	5.35	6.05	7.40	8.45	9.30	10.1	10.9	62	68	60	
* 1/8	F - BB3 - 12	1/8	M - BB3 - 12	3.3	1.6	4.81	5.30	6.30	7.32	8.90	10.00	11.30	12.2	13.0	70	75	68	
* 3/8	F - BB3 - 18	3/8	M - BB3 - 18	4.0	2.4	7.3	8.0	9.5	11.1	13.2	15.2	16.7	18.4	19.5	70	75	68	
* 1/2	F - BB3 - 29	1/2	M - BB3 - 29	5.5	3.2	11.7	12.9	15.3	17.8	21.1	24.0	27.0	28.9	32.0	70	75	68	
		1/8	M - B3 - 3.6	1.6	1.3	1.45	1.60	1.90	2.20	2.60	3.10	3.50	3.70	3.90	40	50	68	
		1/8	M - B3 - 4.8	1.9	1.3	1.93	2.10	2.50	2.90	3.50	4.05	4.50	4.88	5.20				
		1/8	M - B3 - 6	2.2	1.3	2.45	2.70	3.20	3.70	4.50	5.10	5.60	6.20	6.50	48	65	48	
		1/4	M - B3 - 10	3.0	1.6	4.09	4.50	5.35	6.05	7.40	8.45	9.3	10.1	10.9	60	70	58	
		1/4	M - B3 - 12	3.3	1.6	4.81	5.30	6.30	7.32	8.90	10.00	11.3	12.2	13.0	70	75		
		1/4	M - B3 - 14.5	3.9	1.6	5.90	6.50	7.70	9.00	10.50	12.30	13.5	14.7	15.9	78	80	65	
		3/8	M - B3 - 18	4.0	2.4	7.3	8.0	9.5	11.1	13.2	15.2	16.7	18.4	19.5	70	75	68	
		1/2	M - B3 - 29	5.6	3.2	11.7	12.9	15.3	17.8	21.1	24.0	27.0	28.9	32	70	75	68	
		1/2	M - B3 - 36	6.4	3.2	14.5	16.0	19.0	22.0	26.0	31.0	35.0	37.0	39.0	78	80	75	
		3/4	M - B3 - 50	6.7	4.5	20	22	26	31	37	42	47	51	55	70	75	68	
* 1	F - B3 - 106			10.1	5.6	43	47	55	65	78	90	99	108	115	78	80	75	
* 1 1/4	F - B3 - 177 (1)			12.7	6.5	72	79	94	108	130	150	165	180	193	78	80	75	
* 1 1/2	F - B3 - 230 (1)			14.3	8.8	92	102	121	140	171	195	215	235	250	75	78	70	
* 2	F - B3 - 290 (1)			15.5	11.2	117	129	153	178	215	245	269	295	315	65	70	65	
* 2	F - B3 - 360 (1)			17.4	11.2	145	160	190	220	264	305	334	365	389	70	75	68	
* 2	F - B3 - 480 (1)			21.0	11.2	195	215	254	295	355	405	451	485	521	80	85	75	
* 2 1/2	F - B3 - 490 (1)			19.8	14.4	200	220	262	300	359	415	455	500	529	60	65	60	
* 2 1/2	F - B2 - 590 (1)			22.2	14.4	236	260	310	361	436	495	551	601	640	75	78	70	
* 2 1/2	F - B2 - 950 (1)			26.8	17.5	381	420	500	579	700	801	889	971	1042	80	85	75	



CONO PIENO AMPIO SEZIONE QUADRATA B4

B4 WIDE SQUARE FULL CONE
CONO LLENO GRAN ANGULO DE
ASPERSIÓN CUADRADA B4



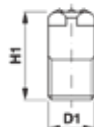
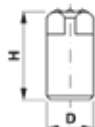
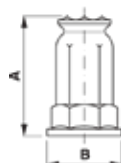
F-B4



F-B4



M-B4



Caratteristiche

- Ugelli a corpo unico o in fusione tipo F-B4 (1)

Applicazioni

- Installazioni con molti ugelli dove la sezione quadrata dello spruzzo permette una copertura migliore della superficie da trattare

Come ordinare

Es. 1/4" MB4-14 INOX

Characteristics

- One piece nozzles or F-B4 (1) cast types

Applications

- Installations with many nozzles in which the square spray allows a better surface coverage

How to Order

E.g. 1/4" MB4-14 SS303

Características

- Ugelli a corpo unico o in fusione tipo F-B4 (1)

Aplicaciones

- Instalación con un gran número de boquillas, donde la sección cuadrada de la pulverización permite una mejor cobertura de la superficie a tratar

Para pedidos

Ej. 1/4"MB4-14 INOX

MATERIALE MATERIAL	ATTACCO THREAD ROSCA DE CONEXIÓN	MODELLO MODEL MODELO	ORIFIZIO FLOW ORIFICE ORIFICIO	ANGOLO ANGLE ANGULO	CODICE ARTICLE CODE CÓDIGO
I	1	MB414	-	-	I1MB414

DIMENSIONI - DIMENSIONS - DIMENSIONES (mm)

Ø	D	H	D1	H1	A	B
1/4	-	-	13	23	-	-
3/8	-	-	17	30	-	-
1/2	-	-	21	39	-	-
3/4	32	55	27	40	-	-
1	38	69	35	52	-	-
1 1/4	-	-	-	-	89	53
1 1/2	-	-	-	-	102	58
2	-	-	-	-	135	75
2 1/2	-	-	-	-	175	86

TIPO DI UGELLO TYPE OF NOZZLE TIPOS DE BOQUILLAS		Ø1 mm	Ø2 mm	PRESSIONE - PRESSURE - PRESIÓN (bar)										bar		
				0.75	1	1.5	2	3	4	5	6	7		0.5	1.5	5
				PORTATA - CAPACITY - CAUDAL (l/min)										◁°	◁°	◁°
	1/4 M - B4 - 14	3.6	1.6	5.6	6.2	7.4	8.5	10.0	11.5	12.5	14.0	15.0		100	100	95
	3/8 M - B4 - 20	4.4	2.4	8.0	8.8	10.6	12.2	14.5	16.5	18.1	20.2	21.8		105	110	95
	1/2 M - B4 - 35	5.9	3.2	14.0	15.5	18.5	21.0	24.9	29.0	31.0	35.0	37.0		105	110	100
* 3/4	F - B4 - 71	9.8	4.4	28.0	31.0	37.2	42.0	49.9	57.1	63.0	70.0	75.0		105	110	100
* 1	F - B4 - 130	13.1	5.6	51.8	57.0	68.0	77.2	93.0	105.0	115.0	130.0	140.0		105	110	105
* 1 1/4	F - B4 - 190 (1)	15.5	5.6	75	83.0	100	112	135	152	168	190	200		110	110	110
* 1 1/2	F - B4 - 290 (1)	18.2	8.0	112	124	149	168	201	229	250	280	300		110	115	110
* 2	F - B4 - 560 (1)	25.0	11.2	222	245	291	330	394	446	495	554	590		110	115	110
* 2 1/2	F - B4 - 830 (1)	31.8	14.4	327	360	429	490	590	671	741	830	887		110	115	110

* materiali su richiesta - material on request - bajo pedido

CONO PIENO NORMALE E AMPIO BB5 - BB6

BB5-BB6 NORMAL AND WIDE
TANGENTIAL FULL CONE
CONO PLENO NORMAL Y AMPIO
BB5-BB6



F-BB5



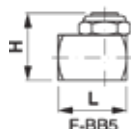
M-BB5



F-BB6



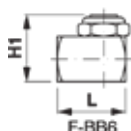
M-BB6



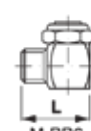
F-BB5



M-BB5



F-BB6



M-BB6

Caratteristiche *

- Testina rimovibile
- Spruzzo a 90° rispetto l'asse d'ingresso

*BB5 con angolo di spruzzo ampio

Characteristics *

- Removable cap
- 90° spray from the inlet axis

* BB5 with wide angle

Características *

- Cabeza intercambiable
- Pulverización a 90° respecto al eje de entrada

* BB5 con gran ángulo de aspersión

Applicazioni

- Lavaggi di ogni tipo
- Raffreddamenti
- Abbattimento schiume
- Antincendio
- Lavaggio aria e gas
- Trattamenti chimici

Applications

- Washing
- Cooling
- Foam dispersion
- Fire protection
- Air and gas washing
- Chemical processes

Aplicaciones

- Lavado
- Enfriamiento
- Aspersión de espumas
- Protección contra incendios
- Lavado de aire y gas
- Tratamientos químicos

Come ordinare

Es. 1/8" MBB5-2 INOX

How to Order

E.g. 1/8" MBB5-2 SS303

Para pedidos

Ej. 1/8" MBB5-2 INOX

MATERIALE MATERIAL	ATTACCO THREAD ROSCA DE CONEXIÓN	MODELLO MODEL MODELO	ORIFIZIO FLOW ORIFICE ORIFICIO	ANGOLO ANGLE ANGULO	CODICE ARTICLE CODE CÓDIGO
I	0	MBB52	-	-	I0MBB52

DIMENSIONI - DIMENSIONS - DIMENSIONES (mm)

Ø	H max	H1 max	L
1/8	22	25	27
1/4	28	31	30
3/8	30	30	34
1/2	43	48	48

TIPO DI UGELLO TYPE OF NOZZLE TIPOS DE BOQUILLAS		Ø1 mm	Ø2 mm	PRESSIONE - PRESSURE - PRESIÓN (bar)										bar		
				0.5	0.75	1	1.5	2	3	4	5	6	7	0.5	1.5	5
				PORTATA - CAPACITY - CAUDAL (l/min)										Δ°	Δ°	Δ°
* 1/8 F - BB5 - 2	1/8 M - BB5 - 2	1.3	1.0	0.64	0.80	0.89	1.10	1.25	1.50	1.75	1.90	2.10	2.30	45	50	45
* 1/8 F - BB5 - 3	1/8 M - BB5 - 3	1.6	1.0	0.97	1.18	1.30	1.64	1.82	2.20	2.55	2.81	3.05	3.30	50	65	60
* 1/8 F - BB5 - 3.5	1/8 M - BB5 - 3.5	1.6	1.0	1.15	1.40	1.60	1.90	2.15	2.50	3.05	3.30	3.60	3.85	45	50	45
* 1/8 F - BB5 - 5	1/8 M - BB5 - 5	2.0	1.3	1.65	2.00	2.20	2.60	3.10	3.75	4.24	4.71	5.15	5.50	50	65	60
	1/4 M - BB5 - 5	1.3	1.0	0.64	0.80	0.89	1.10	1.25	1.50	1.75	1.90	2.10	2.30	45	50	45
* 1/4 F - BB5 - 6.5	1/4 M - BB5 - 6.5	2.3	1.6	2.10	2.60	2.90	3.50	4.10	4.85	5.50	6.10	6.50	7.10	45	50	45
* 1/4 F - BB5 - 10	1/4 M - BB5 - 10	2.9	1.6	3.25	4.10	4.50	5.40	6.15	7.50	8.50	9.40	10.30	11.00	58	65	60
* 3/8 F - BB5 - 9.5	3/8 M - BB5 - 9.5	2.6	2.4	3.1	4.0	4.2	5.2	5.7	7.1	8.2	9.0	9.7	10.5	45	50	45
* 3/8 F - BB5 - 15	3/8 M - BB5 - 15	3.6	2.4	4.9	6.0	6.7	8.1	9.2	11.2	12.6	14.1	15.1	16.5	65	65	60
* 3/8 F - BB5 - 20	3/8 M - BB5 - 20	4.0	2.8	6.5	8.1	8.9	10.7	12.5	14.8	17.1	18.5	19.9	22.0	75	80	75
* 3/8 F - BB5 - 22	3/8 M - BB5 - 22	4.7	2.8	7.1	8.9	9.8	11.8	13.5	16.2	18.5	21.1	22.0	24.5	85	90	80
* 1/2 F - BB5 - 16	1/2 M - BB5 - 16	3.5	3.2	5.25	6.40	7.10	8.50	9.81	11.9	13.5	15.1	16.2	17.4	48	50	45
* 1/2 F - BB5 - 25	1/2 M - BB5 - 25	4.6	3.2	8.10	10.0	11.1	13.5	15.2	18.4	21.0	23.1	25.0	26.8	65	65	60
* 1/2 F - BB5 - 32	1/2 M - BB5 - 32	5.2	3.6	10.5	12.9	14.2	17.3	19.7	23.9	27.0	30.0	33.0	35.1	70	75	68
* 1/2 F - BB5 - 40	1/2 M - BB5 - 40	6.4	3.6	12.9	16.0	17.8	20.8	24.2	29.6	33.8	37.0	40.8	44.0	90	90	85
* 1/2 F - BB5 - 50	1/2 M - BB5 - 50	6.7	4.3	16.5	20.0	22.0	26.0	31.0	37.5	42.4	47.1	51.5	55.0	90	95	85
* 1/8 F - BB6 - 4.3	1/8 M - BB6 - 4.3	2.0	1.0	1.4	1.7	1.9	2.3	2.5	3.1	3.4	3.8	4.3	4.5	120	120	100
* 1/8 F - BB6 - 8	1/8 M - BB6 - 8	2.5	1.3	2.5	3.1	3.5	4.1	4.7	5.6	6.5	7.3	7.8	8.5	120	120	100
* 1/4 F - BB6 - 14	1/4 M - BB6 - 14	3.6	1.6	4.5	5.6	6.2	7.5	8.50	10.2	11.5	12.5	13.5	14.5	120	120	100
* 3/8 F - BB6 - 20	3/8 M - BB6 - 20	4.4	2.4	6.5	8.0	8.8	10.5	12.1	14.5	16.5	18.1	19.4	21.0	120	120	105
* 1/2 F - BB4 - 35	1/2 M - BB4 - 35	5.9	3.2	11.4	14.0	15.5	18.5	21.0	24.8	29.0	30.9	34.0	36.0	120	120	110
* 1/2 F - BB6 - 50	1/2 M - BB6 - 50	6.7	4.3	16.3	20.0	22.0	25.8	30.0	36.3	41.0	45.1	48.9	52.0	120	120	110

* materiali su richiesta - material on request - bajo pedido

CONO PIENO STRETTO B7- BB7

BB7 NARROW FULL CONE INJECTORS
INJECTOR DE CONO LLENO, PEQUEÑO
ANGULO B7-BB7



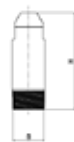
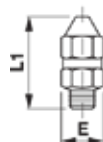
M-BB7



F-BB7



M-B7



Caratteristiche

- Cono pieno stretto a forte impatto con angolo di spruzzo a 30°

Applicazioni

- Lavaggi ad alto impatto
- Spruzzo all'interno di tubazioni

Come ordinare

Es. 1/4" MBB7-9 OTTONE

Characteristics

- Narrow full cone spray with high impact 30° spray angle

Applications

- High impact washing
- Inside tubes spray

How to Order

E.g. 1/4" MBB7-9 BRASS

Características

- Cono lleno de fuerte impacto con ángulo de aspersión de 30°

Aplicaciones

- Lavado con fuerte impacto
- Pulverización en el interior de canalizaciones

Para pedidos

Ej. 1/4" MBB7-9 LATON

MATERIALE MATERIAL MATERIAL	ATTACCO THREAD ROSCA DE CONEXIÓN	MODELLO MODEL MODELO	ORIFIZIO FLOW ORIFICE ORIFICIO	ANGOLO ANGLE ANGULO	CODICE ARTICLE CODE CÓDIGO
O	1	MBB79	-	-	O1MBB79

DIMENSIONI - DIMENSIONS - DIMENSIONES (mm)

Ø	E	L max	L1 max	D	H max
1/8	16	38	38	-	-
1/4	20	46	48	-	-
3/8	25	57	58	-	-
1/2	31	75	78	-	-
3/4	42	96	100	-	-
1	-	-	-	35	92
1 1/4	-	-	-	42	128
1 1/2	-	-	-	48	155
2	-	-	-	60	200
2 1/2	-	-	-	75	232

TIPO DI UGELLO TYPE OF NOZZLE TIPOS DE BOQUILLAS		Ø1 mm	PRESSIONE - PRESSURE - PRESIÓN (bar)										bar		
			2	3	4	5	6	7	10	15	20	30	0.5	1.5	5
			PORTATA - CAPACITY - CAUDAL (l/min)										°	°	°
* 1/8 F - BB7 - 1.4	1/8 M - BB7 - 1.4	0.71	0.44	0.55	0.63	0.70	0.77	0.85	1.02	1.20	1.38	1.70	15	30	30
* 1/8 F - BB7 - 2.5	1/8 M - BB7 - 2.5	0.97	0.81	0.98	1.20	1.30	1.40	1.50	1.80	2.20	2.50	3.05	15	30	30
* 1/8 F - BB7 - 4	1/8 M - BB7 - 4	1.2	1.31	1.50	1.80	2.10	2.20	2.45	2.90	3.50	4.10	4.92	25	30	30
* 1/8 F - BB7 - 7	1/8 M - BB7 - 7	1.6	2.30	2.70	3.22	3.50	3.90	4.20	5.10	6.10	7.00	8.70	25	30	30
* 1/4 F - BB7 - 9	1/4 M - BB7 - 9	1.8	2.9	3.4	4.0	4.5	5.1	5.3	6.5	8.0	9.1	11.0	25	30	30
* 3/8 F - BB7 - 14	* 3/8 M - BB7 - 14	2.3	4.5	5.5	6.3	7.1	7.8	8.5	10.2	12.3	14.2	17.0	25	30	30
* 1/2 F - BB7 - 30	* 1/2 M - BB7 - 30	3.2	9.5	11.6	13.5	15.1	16.5	18.0	21.0	25.9	30.0	35.8	25	30	30
* 3/4 F - BB7 - 50	* 3/4 M - BB7 - 50	4.2	16.1	19.5	23.0	25.0	28.0	29.8	36.0	44.1	51.1	61.0	25	30	30
	* 1 M - BB7 - 70	5.1	22	27	32	35	39	42	50	61	70	85	28	30	30
	* 1 M - BB7 - 100	6.1	32	39	45	50	55	60	71	88	100	122	28	30	30
	* 1 1/4 M - BB7 - 150	7.4	48	59	68	76	83	89	107	131	152	180	28	30	30
	* 1 1/4 M - BB7 - 200	8.6	65	78	90	100	111	120	143	175	200	242	28	30	30

* materiali su richiesta - material on request - bajo pedido

TESTINE DI SPRUZZO A CONO PIENO BG - BGF

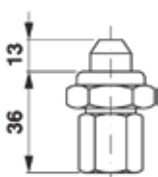
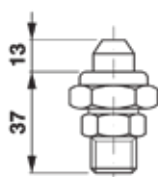
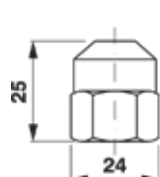
BG - BGF FULL CONE SPRAY
ORIFICIO DE PULVERIZACION DE CONO LLENO BG-BGF



BG



BGF



GHIERA
RETAINER
RING



BG
BG
BG



CORPO
BODY
CUERPO

Caratteristiche

- Cono pieno a forte impatto con angolo di spruzzo a 30°.
- Fornibile anche con trattamento anti-usura

Applicazioni

- Lavaggi ad alto impatto
- Spruzzo all'interno di tubazioni

Come ordinare

Es. BG-10 INOX

Characteristics

- Full cone spray with high impact 30° spray angle
- Available also with special treatment against wearing

Applications

- High impact washing
- Inside tubes spray

How to Order

E.g. BG-10 SS303

Características

- Cono lleno de fuerte impacto con ángulo de aspersión de 30°
- Disponible también con el anti-desgaste

Aplicaciones

- Lavado con fuerte impacto
- Pulverización en el interior de canalizaciones

Para pedidos

Ej. BG-10 INOX

MATERIALE MATERIAL	ATTACCO THREAD ROSCA DE CONEXIÓN	MODELLO MODEL MODELO	ORIFIZIO FLOW ORIFICE ORIFICIO	ANGOLO ANGLE ANGULO	CODICE ARTICLE CODE CÓDIGO
I	-	BG10	-	-	IBG10

TIPO DI UGELLO TYPE OF NOZZLE TIPOS DE BOQUILLAS	Ø1 mm	PRESSIONE - PRESSURE - PRESIÓN (bar)											bar		
		1	1.5	2	3	4	5	6	8	12	16	20	1.5	3	7
		PORTATA - CAPACITY - CAUDAL (l/min)											△°	△°	△°
BG - 1	0.89	0.45	0.54	0.61	0.74	0.85	0.93	1.0	1.2	1.5	1.7	1.9	60	60	55
BG - 2	1.2	0.89	1.10	1.25	1.50	1.70	1.95	2.0	2.5	3.0	3.4	3.7	50	50	45
BG - 3	1.5	1.30	1.65	1.83	2.20	2.50	2.80	3.0	3.6	4.4	5.0	5.6	65	65	60
BG - 5	1.6	1.60	1.95	2.10	2.65	3.00	3.30	3.5	4.2	5.3	6.0	6.6	50	50	45
BG - 3.5	2.0	2.20	2.74	3.10	3.76	4.20	4.70	5.1	6.2	7.5	8.4	9.4	65	65	60
BG - 6.5	2.3	2.90	3.55	4.10	4.80	5.50	6.10	6.6	8.2	9.6	11.0	12.2	65	65	60
BG - 8	2.6	3.50	4.50	5.10	6.30	7.00	8.00	9.0	10.2	12.6	14.0	16.0	65	65	60
BG - 10	2.9	4.50	5.40	6.10	7.40	8.50	9.30	10.5	12.2	14.8	17.0	18.6	65	65	60

TIPO DI UGELLO TYPE OF NOZZLE TIPOS DE BOQUILLAS	Ø1 mm	PRESSIONE - PRESSURE - PRESIÓN (bar)											bar		
		1	1.5	2	3	4	5	6	8	12	16	20	1.5	3	7
		PORTATA - CAPACITY - CAUDAL (l/min)											△°	△°	△°
3/8 BGF - 1	0.89	0.45	0.54	0.61	0.74	0.8	0.9	1.0	1.2	1.5	1.7	1.9	60	60	55
3/8 BGF - 2	1.2	0.89	1.10	1.25	1.50	1.7	1.9	2.0	2.5	3.0	3.4	3.7	50	50	45
3/8 BGF - 3	1.5	1.30	1.65	1.83	2.20	2.5	2.8	3.0	3.6	4.4	5.0	5.6	65	65	60
3/8 BGF - 5	1.6	1.60	1.95	2.10	2.65	3.0	3.3	3.5	4.2	5.3	6.0	6.6	50	50	45
3/8 BGF - 3.5	2.0	2.20	2.74	3.10	3.76	4.20	4.7	5.1	6.2	7.5	8.4	9.4	65	65	60
3/8 BGF - 6.5	2.3	2.90	3.55	4.10	4.80	5.5	6.1	6.6	8.2	9.6	11.0	12.2	65	65	60
3/8 BGF - 8	2.6	3.50	4.50	5.10	6.30	7.0	8.0	9.0	10.2	12.6	14.0	16.0	65	65	60
3/8 BGF - 10	2.9	4.50	5.40	6.10	7.40	8.5	9.3	10.5	12.2	14.8	17.0	18.6	65	65	60
3/8 BGF - 15	3.6	6.70	8.05	9.20	11.2	12.7	14.3	16.2	18.4	22.4	25.4	28.6	65	65	60
3/8 BGF - 22	4.5	9.80	9.80	13.40	16.30	18.5	21.0	22.0	26.8	32.6	37.0	42.0	65	65	60

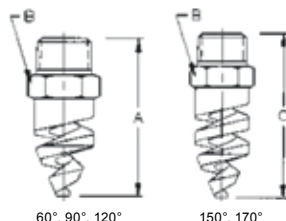


CONO PIENO B9S

B9S SPIRAL FULL CONE
CONO LLENO B9S



B9S



60°, 90°, 120°

150°, 170°

Caratteristiche

Il nuovo ugello idraulico B9S attua un getto a cono pieno anche con pressioni di acqua piuttosto basse (da 0,5 bar in su). L'ugello non richiede manutenzione di alcun genere e la sua struttura stessa è garanzia di non intasamento. La portata di questi ugelli può essere particolarmente elevata e possono essere utilizzati anche con acque non particolarmente pulite. Sono disponibili angoli di spruzzo: 60° 90° 120° 150° 170°. Possono essere costruiti in AISI 316, ottone o materiale plastico (PP o PVC / PTFE). Sopra i 5 bar, è raccomandato il materiale metallico.

Characteristics

The new hydraulic nozzle B9S gives a full cone jet even with low water pressures (from 0,5 bar on). This nozzle doesn't require any maintenance and its structure guarantees the minimum of clogging. The capacity of this nozzle can be high and may be used even with secondary water. Available spray angle: 60°, 90°, 120°, 150°, 170°. They may be built in AISI 316, Brass or plastic material (PP or PVC / PTFE). Over 5 bar, a metallic material is recommended.

Características

La nueva boquilla hidráulica B9S aplica un chorro de cono lleno incluso con la presión de agua más bien baja (0,5 bar. y superiores). La boquilla no requiere mantenimiento de ningún tipo y su estructura es una garantía de que no se obstruya. El alcance de estas boquillas puede ser particularmente alto y también se puede utilizar con agua no muy limpia. Tenemos cinco tipos de ángulo de aspersión: 60°, 90°, 120°, 150°, 170°. Puede ser fabricada en AISI 316, latón o plástico (PP PVC-PTFE). Superiores a 5 bar, se recomienda que los materiales sean de metal.

Applicazioni

- Lavaggi
- Raffreddamenti
- Processi industriali e chimici
- Antincendio

Applications

- Washing
- Cooling
- Industrial and chemical processes
- Fire protection

Aplicaciones

- Lavado
- Enfriamiento
- Tratamientos químicos
- Protección contra incendios

Come ordinare

Es. 1/4" MB9-8S-90° PTFE

How to Order

E.g. 1/4" MB9-8S-90° PTFE

Para pedidos

Ej. 1/4" MB9-8S-90° PTFE

MATERIALE MATERIAL MATERIAL	ATTACCO THREAD ROSCA DE CONEXIÓN	MODELLO MODEL MODELO	ORIFIZIO FLOW ORIFICE ORIFICIO	ANGOLO ANGLE ANGULO	CODICE ARTICLE CODE CÓDIGO
TF	1	MB98S	-	90°	TF1MB98S90

CONNESSIONE CONNECTION CONEXIÓN	TIPO DI UGELLO TYPE OF NOZZLE TIPOS DE BOQUILLAS			PRESSIONE - PRESSURE - PRESIÓN (bar)						Angoli di spruzzo - Spray angle - Angulo de aspersión					Dimensioni - Dimensions - Dimensiones		
				0.5	1	3	5	10	20	60°	90°	120°	150°	170°	A	B	C
				PORTATA - CAPACITY - CAUDAL													
1/8	B9	6	S	2.25	3.18	5.50	7.10	10.04	14.20	60°	90°	120°	150°	170°	42.90	14.30	42.90
1/8	B9	8	S	4.20	5.95	10.30	13.30	18.81	26.59	60°	90°	120°	150°	170°	42.90	14.30	55.60
1/4	B9	6	S	2.25	3.18	5.50	7.10	10.04	14.20	60°	90°	120°	150°	170°	47.60	14.30	47.60
1/4	B9	8	S	4.20	5.95	10.30	13.30	18.81	26.59	60°	90°	120°	150°	170°	47.60	14.30	60.30
1/4	B9	10	S	6.45	9.12	15.80	20.40	28.85	40.80	60°	90°	120°	150°	170°	47.60	14.30	60.30
3/8	B9	6	S	2.25	3.18	5.50	7.10	10.04	14.20	60°					47.60	17.50	60.50
3/8	B9	8	S	4.20	5.95	10.30	13.30	18.81	26.59	60°					47.60	17.50	60.50
3/8	B9	10	S	6.45	9.12	15.80	20.40	28.85	40.80	60°					47.60	17.50	60.50
3/8	B9	12	S	9.68	13.68	23.70	30.60	43.27	61.19	60°	90°	120°	150°	170°	47.60	17.50	60.50
3/8	B9	14	S	13.06	18.48	32.00	41.31	58.42	82.62	60°	90°	120°	150°	170°	47.60	17.50	60.50
3/8	B9	16	S	17.06	24.13	41.80	53.96	76.32	107.93	60°	90°	120°	150°	170°	47.60	17.50	60.50
3/8	B9	20	S	26.58	37.59	65.10	84.04	118.86	168.09	60°	90°	120°	150°	170°	47.60	17.50	60.50
1/2	B9	24	S	39	55	95	123	174	246	60°	90°	120°	150°	170°	63.50	22.20	77.70
1/2	B9	28	S	53	75	130	168	237	336	60°	90°	120°	150°	170°	63.50	22.20	77.70
3/4	B9	32	S	68	96	166	214	303	429	60°	90°	120°	150°	170°	69.90	28.60	88.90
1	B9	40	S	108	152	26	341	482	682	60°	90°	120°	150°	170°	92.10	34.90	111
1	B9	48	S	153	217	375	484	685	968	60°	90°	120°	150°	170°	92.10	34.90	111
1 1/2	B9	56	S	208	294	509	657	929	1314	60°	90°	120°	150°	170°	111.00	50.80	137
1 1/2	B9	64	S	272	385	667	861	1218	1722	60°	90°	120°	150°	170°	111.00	50.80	137
1 1/2	B9	72	S	309	438	758	979	1384	1957	60°	90°	120°	150°	170°	111.00	50.80	143
2	B9	88	S	453	641	1110	1433	2027	2866	60°	90°	120°	150°	170°	143.00	63.50	175
2	B9	96	S	572	808	1400	1807	2556	3615	60°	90°	120°	150°	170°	176.00	63.50	178
3	B9	112	S	825	1166	2020	2608	3688	5216	60°	90°	120°			219.00	88.90	
3	B9	128	S	1094	1547	2680	3460	4893	6920	60°	90°	120°			219.00	88.90	
4	B9	160	S	2645	3146	4140	5345	7559	10689	60°	90°	120°			257	114	

CONO PIENO B9L

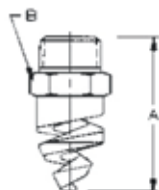
B9L SPIRAL FULL CONE LARGE

FREE PASSAGE

CONO LLENO B9L



B9L



90°, 120°

Caratteristiche

Il nuovo ugello idraulico B9L attua un getto a cono pieno anche con pressioni di acqua piuttosto basse (da 0,5 bar in su). L'ugello non richiede manutenzione di alcun genere e la sua struttura stessa è garanzia di non intasamento. La portata di questi ugelli è particolarmente elevata e possono essere utilizzati anche con acque non particolarmente pulite. Sono disponibili angoli di spruzzo: 90° 120°. Possono essere costruiti in AISI 316, ottone o materiale plastico (PP o PVC / PTFE). Sopra i 5 bar, è raccomandato il materiale metallico.

Characteristics

The new hydraulic nozzle B9S gives a full cone jet even with low water pressures (from 0,5 bar on). This nozzle doesn't require any maintenance and its structure guarantees the minimum of clogging. The capacity of this nozzle can be high and may be used even with secondary water. Available spray angle: 60°, 90°, 120°, 150°, 170°. They may be built in AISI 316, Brass or plastic material (PP or PVC / PTFE). Over 5 bar, a metallic material is recommended.

Características

La nueva boquilla hidráulica B9L aplica un chorro de cono lleno incluso con la presión de agua más bien baja (0,5 bar. y superiores). La boquilla no requiere mantenimiento de ningún tipo y su estructura es una garantía de que no se obstruya. El alcance de estas boquillas puede ser particularmente alto y también se puede utilizar con agua no muy limpia. Tenemos cinco ángulos de aspersión: 90°, 120°. Puede ser construida en AISI 316, latón o plástico (PP PVC-PTFE). Superiores a 5 bar, se recomienda que los materiales de metal.

Applicazioni

- Lavaggi
- Raffreddamenti
- Processi industriali e chimici
- Antincendio

Applications

- Washing
- Cooling
- Industrial and chemical processes
- Fire protection

Aplicaciones

- Lavado
- Enfriamiento
- Tratamientos químicos
- Protección contra incendios

Come ordinare

Es. 3/4" MB9-32L-90° AISI 316

How to Order

E.g. 3/4" MB9-32L-90 SS316

Para pedidos

Ej. 3/4"MB9-32L-90° AISI 316

MATERIALE MATERIAL MATERIAL	ATTACCO THREAD ROSCA DE CONEXIÓN	MODELLO MODEL MODELO	ORIFIZIO FLOW ORIFICE ORIFICIO	ANGOLO ANGLE ANGULO	CODICE ARTICLE CODE CÓDIGO
A	4	MB932L	-	90°	A4MB932L90

CONNESSIONE CONNECTION CONEXIÓN	TIPO DI UGELLO TYPE OF NOZZLE TIPOS DE BOQUILLAS			PRESSIONE - PRESSURE - PRESIÓN (bar)						Angoli di spruzzo - Spray angle - Angulo de aspersión		Dimensioni - Dimensions - Dimensiones		
				0.5	1	3	5	10	20	90°	120°	A	B	Free passage
				PORTATA - CAPACITY - CAUDAL										
3/8	B9	12	L	-	13.7	23.7	30.6	43.2	61.1	90°	120°	73.1	22.2	4.75
3/8	B9	14	L	-	18.5	32	41.3	58.4	82.6	90°	120°	73.1	22.2	5.55
3/8	B9	16	L	-	24.2	41.8	54	76.4	108	90°	120°	69.9	22.2	6.35
3/8	B9	20	L	-	37.6	65.1	84.1	119	168	90°	120°	79.5	22.2	7.94
1/2	B9	24	L	38.8	54.9	95.1	123	174	246	90°	120°	88.1	26.9	9.53
1/2	B9	28	L	53.2	75.2	130	168	238	336	90°	120°	88.9	26.9	11.1
3/4	B9	32	L	67.7	95.7	166	214	303	428	90°	120°	137	44.5	12.7
1	B9	40	L	108	153	264	341	483	683	90°	120°	133	50.8	15.9
1	B9	48	L	153	216	375	484	685	968	90°	120°	168	50.8	19.1
1 1/2	B9	56	L	208	294	509	657	930	1320	90°	120°	177	63.5	22.2
1 1/2	B9	64	L	272	385	667	861	1220	1720	90°	120°	176	63.5	25.4
1 1/2	B9	72	L	309	438	758	978	1380	1960	90°	120°	188	63.5	28.6
2	B9	88	L	451	638	1110	1430	2020	2850	90°	120°	267	76.2	34.9
2	B9	96	L	570	806	1400	1800	2550	3600	90°	120°	279	76.2	38.1
3	B9	112	L	825	1170	2020	2610	3690	5250	90°	120°	305	88.9	44.5
3	B9	128	L	1090	1550	2680	3460	4891	6920	90°	120°	297	88.9	50.8
4	B9	160	L	1690	2390	4140	5350	7570	10700	90°	120°	305	114	63.5