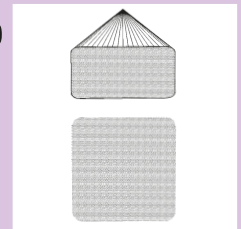


Ugelli a cono pieno sezione quadrata, angolo ampio

Wide angle full cone square-shaped spray nozzles



FWSQ - FFWSQ - BTM - FFZWSQ

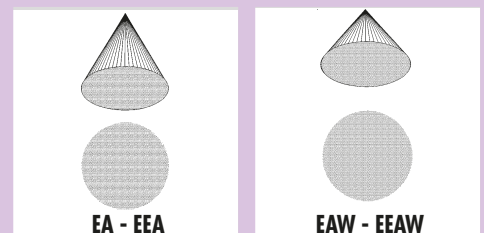
Tabella delle portate - Capacity chart

Ugello - Nozzle				Orifizio Orifice Ø Nom. mm	Pass. libero Max free pas. Ø Nom. mm	Pressione - Pressure (Bar)											Angolo di spruzzo Spray angle			
Attacco Pipe conn.	Femmina Female	Maschio Male	Codice Code			0,5	0,7	1	1,5	2	2,5	3	4	5	6	7	10	0,5Bar	1Bar	5Bar
1/4" 3/8"		FF-BTM-FFZ	14 WSQ	3,57	1,59	4,60	5,33	6,24	7,45	8,45	9,31	10,09	11,44	12,61	13,66	14,61	17,08	99°	101°	93°
			17 WSQ	3,97	1,59	5,59	6,48	7,57	9,04	10,26	11,31	12,25	13,89	15,32	16,59	17,75	20,74	99°	101°	93°
			20 WSQ	4,37	2,38	6,58	7,62	8,91	10,64	12,07	13,30	14,41	16,34	18,02	19,51	20,88	24,40	104°	110°	94°
			24 WSQ	4,76	2,38	7,89	9,15	10,69	12,77	14,48	15,96	17,29	19,61	21,62	23,42	25,05	29,28	104°	110°	94°
			27 WSQ	5,16	2,78	8,88	10,29	12,03	14,36	16,29	17,96	19,45	22,06	24,32	26,35	28,18	32,95	104°	110°	98°
1/2"		FF-BTM-FFZ	30 WSQ	5,56	2,78	9,87	11,43	13,36	15,96	18,10	19,96	21,61	24,51	27,03	29,27	31,32	36,61	104°	110°	102°
			35 WSQ	5,95	3,18	11,51	13,34	15,59	18,62	21,12	23,28	25,21	28,60	31,53	34,15	36,53	42,71	104°	110°	102°
			40 WSQ	6,35	3,18	13,16	15,24	17,82	21,28	24,13	26,61	28,82	32,68	36,04	39,03	41,75	48,81	104°	110°	102°
			45 WSQ	6,35	3,57	14,80	17,15	20,04	23,94	27,15	29,93	32,42	36,77	40,54	43,91	46,97	54,91	104°	110°	102°
			50 WSQ	6,75	3,97	16,44	19,05	22,27	26,60	30,16	33,26	36,02	40,85	45,05	48,79	52,19	61,01	104°	110°	102°
3/4"	F	FF-BTM-FFZ	71 WSQ	9,92	4,37	23,02	26,67	31,18	37,23	42,23	46,56	50,43	57,20	63,06	68,30	73,07	85,41	105°	110°	102°
1"	F	FF-BTM-FFZ	130 WSQ	13,10	5,56	42,43	49,16	57,46	68,62	77,82	85,81	92,94	105,40	116,22	125,87	134,66	157,40	107°	110°	107°
1 1/4"	F	FF-BTM-FFZ	190 WSQ	15,48	5,56	61,50	71,26	83,30	99,47	112,81	124,39	134,72	152,80	168,47	182,46	195,20	228,18	108°	111°	109°
1 1/2"	F	FF-BTM-FFZ	290 WSQ	18,26	7,94	92,09	106,69	124,72	148,94	168,92	186,25	201,72	228,79	252,26	273,21	292,28	341,65	109°	114°	109°
2"	F	FF-BTM-FFZ	560 WSQ	25,00	11,11	180,88	209,58	244,99	292,55	331,81	365,85	396,24	449,40	495,50	536,66	574,11	671,11	110°	114°	109°
2 1/2"	F	FF-BTM-FFZ	830 WSQ	31,75	14,29	269,68	312,46	365,25	436,17	494,70	545,44	590,75	670,01	738,75	800,11	855,95	1.000,56	110°	115°	109°
3"	F	FF-BTM-FFZ	1070 WSQ	34,93	17,46	365,05	422,97	494,43	590,43	669,65	738,35	799,67	906,97	1.000,01	1.083,08	1.158,67	1.354,41	110°	115°	109°

Ugelli a cono pieno

Full cone spray nozzles

EA - EEA - EAW - EEAW



CARATTERISTICHE DI SPRUZZO

Getto a cono pieno, buona nebulizzazione, distribuzione uniforme su tutta la superficie coperta e proiezione ad angolo retto rispetto all'ingresso. I tipi EAW e EEAW formano un getto con un angolo di copertura di 120°.

COSTRUZIONE

Costruiti in tre pezzi con testina di spruzzo e diffusore interno rimovibili per facilitare eventuali operazioni di pulizia. Forniti con filettatura Gas conica (BSPT - UNI 339). Filettature diverse: NPT, Gas cilindrica (BSPP - UNI 338), ecc. sono fornite su specifica richiesta.

MATERIALI STANDARD

Ottone, acciaio inox AISI 303, acciaio inox AISI 316 e PVC. Materiali diversi sono forniti a richiesta. (Vedi pag. 3)

APPLICAZIONI TIPICHE

Lavaggio aria, gas, metalli, minerali, fumi, frutta e verdura. Raffreddamenti e tempre, protezione antincendio, abbattimento schiume, controllo polveri, ecc.

SPRAY CHARACTERISTICS

These offer a well atomized full cone right angle projection spray pattern with distribution uniformity throughout the covered surface area. The EAW and EEAW series offer a wider spray angle range up to about 120°.

CONSTRUCTION

They are manufactured as three-piece units assembled with a body as well as orifice cap and internal vane being both removable to allow easier eventual nozzle cleaning. All the nozzles are threaded Gas tapered (BSPT - UNI 339). Different threadings: NPT, Gas parallel (BSPP - UNI 338), etc. are supplied under special request.

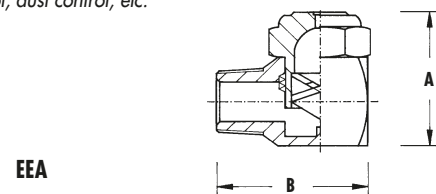
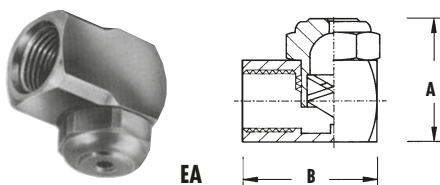
STANDARD MATERIALS

Brass, stainless steel AISI 303, stainless steel AISI 316 and PVC. Other different product materials are achievable upon specific request basis. (See page 3 for list)

TYPICAL APPLICATIONS

Air, gas, metal, mineral, smoke, fruit and vegetable washing, cooling and hardening, fire protection, foam control, dust control, etc.

Tipi - EA - EEA - Types



Dimensioni max ingombro
Max dimensions

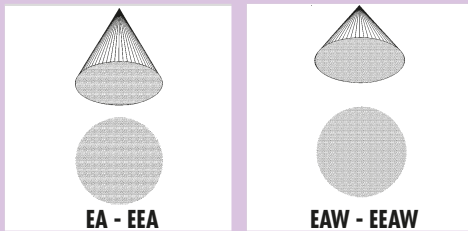
Per ordinare - To order

Specificare: - Specify:

3/8"	EEA	20	SS	=	3/8EEA20SS
Attacco Pipe connection	Tipo Type	Codice Code	Materiale* Material*		Esempio Example

* Vedi Pag. 3 - See page 3 for list

Attacco Pipe connection	Ugello tipo - Nozzle type			
	EA - EAW		EEA - EEAW	
	A mm	B mm	A mm	B mm
1/8"	25	24	25	24
1/4"	31	30	32	30
3/8"	37	34	37	34
1/2"	52	41	52	42



Ugelli a cono pieno

Full cone spray nozzles

EA - EEA - EAW - EEAW

Tabella delle portate - EA - EEA - Capacity chart

Ugello - Nozzle				Orifizio Orifice Ø Nom. mm	Pass. libero Free passage Ø Nom. mm	Pressione - Pressure (Bar)											Angolo di spruzzo Spray angle				
Attacco Pipe connect.	Femmina Female	Maschio Male	Codice Code			0,3	0,5	0,7	1	1,5	2	2,5	3	4	5	6	7	10	0,5 Bar	1,5 Bar	5Bar
1/8"	EA	EEA	2	1,19	1,02	0,52	0,65	0,76	0,90	1,08	1,23	1,37	1,48	1,69	1,88	2,04	2,19	2,58	43°	50°	46°
			3	1,59	1,02	0,78	0,98	1,14	1,35	1,62	1,85	2,05	2,23	2,54	2,81	3,06	3,28	3,87	52°	65°	59°
			3,5	1,59	1,27	0,90	1,14	1,33	1,57	1,89	2,16	2,39	2,60	2,96	3,28	3,57	3,83	4,51	43°	50°	46°
			4	1,98	1,02	1,03	1,31	1,52	1,80	2,16	2,47	2,73	2,97	3,39	3,75	4,08	4,38	5,16	77°	84°	79°
			5	1,98	1,27	1,29	1,63	1,91	2,24	2,70	3,08	3,41	3,71	4,24	4,69	5,10	5,47	6,44	52°	65°	59°
			6	2,38	1,27	1,55	1,96	2,29	2,69	3,24	3,70	4,10	4,45	5,08	5,63	6,12	6,57	7,73	69°	74°	68°
1/4"	EA	EEA	6,5	2,38	1,59	1,68	2,12	2,48	2,92	3,51	4,01	4,44	4,83	5,51	6,10	6,63	7,12	8,38	45°	50°	46°
			10	2,78	1,59	2,59	3,27	3,81	4,49	5,40	6,17	6,83	7,42	8,47	9,38	10,20	10,95	12,89	58°	67°	61°
			12,5	3,18	1,59	3,23	4,08	4,76	5,61	6,76	7,71	8,54	9,28	10,59	11,73	12,75	13,68	16,11	69°	74°	68°
3/8"	EA	EEA	9,5	2,78	2,38	2,46	3,10	3,62	4,26	5,13	5,86	6,49	7,05	8,05	8,91	9,69	10,40	12,25	45°	50°	46°
			15	3,57	2,38	3,88	4,90	5,72	6,73	8,11	9,25	10,24	11,14	12,71	14,07	15,30	16,42	19,33	64°	67°	61°
			20	3,97	2,78	5,17	6,53	7,62	8,98	10,81	12,33	13,66	14,85	16,94	18,76	20,40	21,89	25,78	76°	80°	73°
			22	4,76	2,78	5,69	7,19	8,38	9,87	11,89	13,56	15,02	16,33	18,64	20,64	22,44	24,08	28,36	87°	90°	82°
1/2"	EA	EEA	16	3,57	3,18	4,14	5,23	6,10	7,18	8,65	9,87	10,93	11,88	13,55	15,01	16,32	17,51	20,62	48°	50°	46°
			25	4,76	3,18	6,46	8,17	9,53	11,22	13,51	15,41	17,07	18,56	21,18	23,46	25,50	27,37	32,22	64°	67°	61°
			32	5,16	3,57	8,27	10,45	12,20	14,36	17,29	19,73	21,85	23,76	27,11	30,02	32,64	35,03	41,25	72°	75°	68°
			40	6,75	3,57	10,34	13,07	15,25	17,95	21,62	24,66	27,32	29,70	33,88	37,53	40,80	43,79	51,56	88°	91°	83°
			50	6,75	3,97	12,93	16,33	19,06	22,44	27,02	30,83	34,15	37,12	42,35	46,91	51,00	54,73	64,45	91°	94°	86°

Tipi ad angolo ampio - EAW - EEAW - Wide angle spray nozzle types

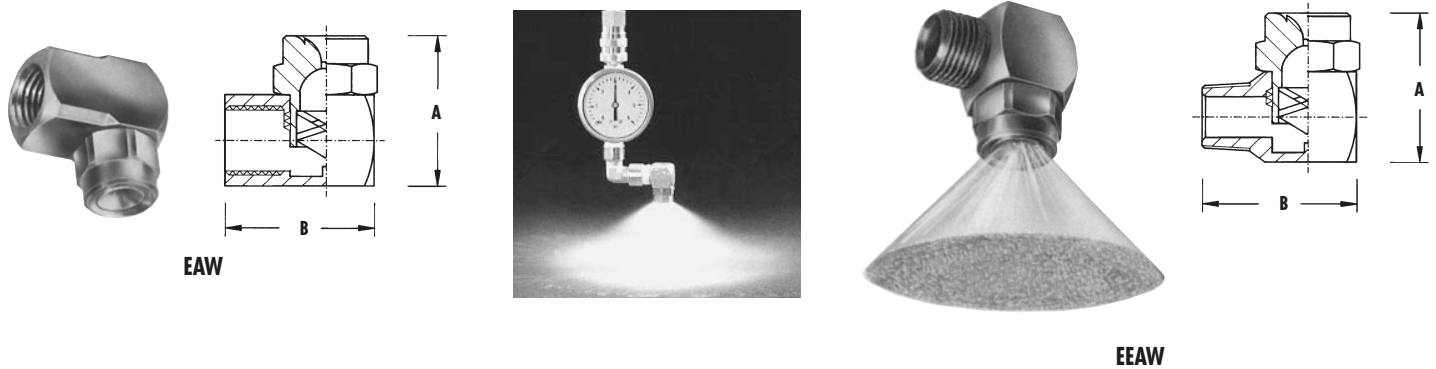


Tabella delle portate - EAW - EEAW - Capacity chart

Ugello - Nozzle				Orifizio Orifice Ø Nom. mm	Pass. libero Free passage Ø Nom. mm	Pressione - Pressure (Bar)											Angolo di spruzzo Spray angle				
Attacco Pipe connect.	Femmina Female	Maschio Male	Codice Code			0,3	0,5	0,7	1	1,5	2	2,5	3	4	5	6	7	10	1 Bar	3 Bar	5 Bar
1/8"	EA	EEA	4,3 W	1,98	1,02	1,13	1,41	1,64	1,92	2,30	2,61	2,88	3,12	3,55	3,92	4,25	4,55	5,33	120°	120°	102°
			5,6 W	2,38	1,02	1,47	1,84	2,13	2,50	2,99	3,40	3,75	4,07	4,62	5,10	5,53	5,92	6,94	120°	120°	102°
			8 W	2,38	1,27	2,09	2,63	3,05	3,57	4,27	4,86	5,36	5,81	6,60	7,29	7,90	8,46	9,91	120°	120°	103°
1/4"	EA	EEA	10 W	2,78	1,27	2,62	3,28	3,81	4,46	5,34	6,07	6,70	7,27	8,25	9,11	9,88	10,58	12,39	120°	120°	103°
			12 W	3,18	1,27	3,14	3,94	4,57	5,36	6,41	7,28	8,04	8,72	9,91	10,94	11,86	12,70	14,87	120°	120°	103°
			14 W	3,57	1,59	3,66	4,60	5,33	6,25	7,48	8,50	9,38	10,17	11,56	12,76	13,83	14,81	17,35	120°	120°	103°
3/8"	EA	EEA	17 W	3,97	1,59	4,45	5,58	6,48	7,59	9,08	10,32	11,39	12,35	14,03	15,49	16,80	17,99	21,07	120°	120°	103°
			20 W	4,37	2,38	5,23	6,56	7,62	8,93	10,69	12,14	13,40	14,53	16,51	18,23	19,76	21,16	24,79	120°	121°	104°
			24 W	4,76	2,38	6,28	7,88	9,15	10,71	12,82	14,57	16,08	17,44	19,81	21,87	23,71	25,39	29,74	120°	120°	104°
			27 W	5,16	2,78	7,07	8,86	10,29	12,05	14,43	16,39	18,09	19,62	22,29	24,61	26,68	28,57	33,46	120°	120°	106°
1/2"	EA	EEA	30 W	5,56	2,78	7,85	9,85	11,43	13,39	16,03	18,21	20,10	21,80	24,76	27,34	29,64	31,74	37,18	120°	120°	108°
			35 W	5,95	3,18	9,16	11,49	13,34	15,62	18,70	21,24	23,45	25,43	28,89	31,90	34,58	37,03	43,38	120°	121°	108°
			40 W	6,35	3,18	10,47	13,13	15,24	17,85	21,37	24,28	26,81	29,06	33,02	36,45	39,52	42,32	49,57	120°	120°	108°
			45 W	6,35	3,57	11,78	14,77	17,15	20,09	24,04	27,31	30,16	32,70	37,15	41,01	44,46	47,61	55,77	120°	120°	110°
			50 W	6,75	3,97	13,08	16,41	19,05	22,32	26,71	30,35	33,51	36,33	41,27	45,57	49,40	52,90	61,96	120°	120°	112°