

Ugelli a cono pieno sezione quadrata, angolo ampio Wide angle full cone square-shaped spray nozzles

FWSQ - FFWSQ - BTM - FFZWSQ

CARATTERISTICHE DI SPRUZZO

Getto a cono pieno con sezione quadrata e angolo ampio studiato per ottenere la massima copertura possibile, distribuzione uniforme su tutta la superficie e buona nebulizzazione.

COSTRUZIONE

I tipi FWSQ, FFWSQ, BTM e FFZWSQ sono costruiti in due pezzi da barra e con diffusori interni fissi montati a pressione.

I tipi FWSQ nella versione in metallo, con grandi portate e attacchi da 1 1/4" e maggiori vengono ricavati da fusione ed hanno il diffusore interno rimovibile. Forniti con filettatura Gas conica (BSPT - UNI 339). Filettature diverse: NPT, Gas cilindrica (BSPP - UNI 338), ecc. sono fornite su specifica richiesta.

MATERIALI STANDARD

Gli ugelli FWSQ con attacchi da 1 1/4" e maggiori sono ricavati da fusione di acciaio inox AISI 316 o da barra nella versione in PVC.

Tutti gli altri modelli vengono forniti in ottone, acciaio inox AISI 303, acciaio inox AISI 316 e PVC. Materiali diversi vengono forniti a richiesta. (Vedi pag. 3)

APPLICAZIONI TIPICHE

Lavaggio prodotti, raffreddamento e tempra, protezione antincendio, lavaggio aria e gas, lavatori di liscivie, scrubbers, ecc.

SPRAY CHARACTERISTICS

These offer a full cone square-shaped spray pattern with a well built wide angle necessary to provide the largest possible coverage and distribution uniformity throughout the surface area as well as good atomization.

CONSTRUCTION

The FWSQ, FFWSQ, BTM and FFWSQ models are two-piece bar stock-type units with a pressure-mounted and consequently, fixed internal vane. The large capacity metal-made FWSQ series, threaded 1 1/4" and over, are also two-piece units but cast types with removable internal vanes.

All the above stated nozzles are Gas tapered (BSPT - UNI 339) threaded. Different threadings: NPT, Gas parallel (BSPP - UNI 338) are obtainable under specific request.

STANDARD MATERIALS

Cast stainless steel AISI 316 and PVC bar-stock types for the large capacity (1 1/4" and over) FWSQ series. Brass, stainless steel AISI 303, stainless steel AISI 316 and PVC for all the other models.

Different product materials can be ordered upon special request. (See page 3 for list)

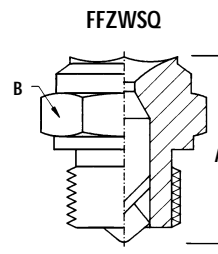
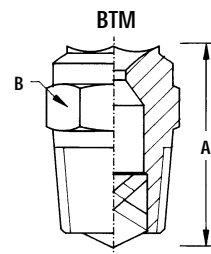
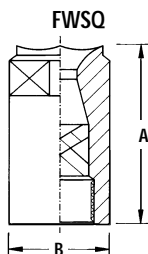
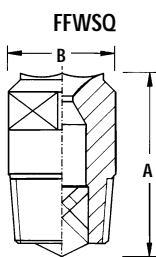
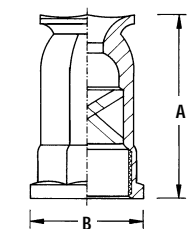
TYPICAL APPLICATIONS

Product washing, cooling and hardening, fire protection, air and gas washing, leaching, scrubbers, etc.

Tipi - Types



FWSQ
Da fusione
Cast type



Per ordinare - To order

Specificare: - Specify:

1/4"	FF	14WSQ	BR	=	1/4FF14WSQBR
Attacco Pipe connection	Tipo Type	Codice Code	Materiale * Material *		Esempio Example

* Vedi Pag. 3 - See page 3 for list

Dimensioni massimo ingombro - Maximum dimensions

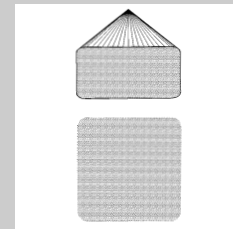
Attacco Pipe connection	Ugello tipo - Nozzle type							
	FWSQ		FFWSQ		BTM		FFZWSQ	
	A mm	B mm	A mm	B mm	A mm	B mm	A mm	B mm
1/8"			23	13 dia	18	11 hex	22	14 hex
1/4"			23	14 dia	25	14 hex	22	17 hex
3/8"			24	17 dia	26	18 hex	30	19 hex
1/2"			29	21 dia	32	21 hex	43	27 hex
3/4"	68	33 dia	39	27 dia	36	27 hex	50	32 hex
1"	68	38 dia	51	33 dia	50	38 hex	58	41 hex
1 1/4"	88	53 dia	70	43 dia			74	50 hex
1 1/2"	103	59 dia	85	48 dia			85	60 hex
2"	137	78 dia	106	60 dia			106	70 dia
2 1/2"	162	87 dia	128	75 dia			128	85 dia
3"	196	105 dia	153	90 dia			153	100 dia

Installazioni tipiche - Typical installations



Ugelli a cono pieno sezione quadrata, angolo ampio

Wide angle full cone square-shaped spray nozzles



FWSQ - FFWSQ - BTM - FFZWSQ

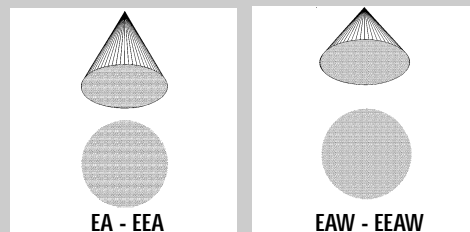
Tabella delle portate - Capacity chart

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 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	1000,56	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.

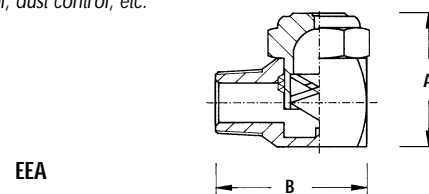
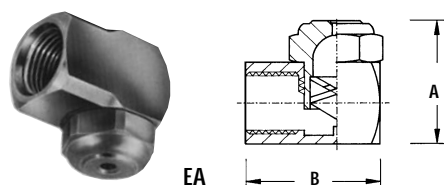
STANDARD MATERIALS

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



Per ordinare - To order

Specificare: - Specify:

3/8" EEA 20 SS = 3/8EEA20SS

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

* Vedi Pag. 3 - See page 3 for list

Dimensioni massimo ingombro Maximum dimensions

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