



Ugelli iniettori a cono pieno con angolo stretto

Narrow angle full cone spray nozzle injectors

E - EE - F - FF 15°-30°

CARATTERISTICHE DI SPRUZZO

Getto a cono pieno e angolo stretto da 15° o da 30°, forza di impatto molto forte e distribuzione uniforme su tutta la superficie coperta.

COSTRUZIONE

I tipi E e EE sono costruiti in tre pezzi con testina di spruzzo e diffusore interno rimovibili per rendere più facili le eventuali operazioni di pulizia. I tipi F e FF sono costruiti in due pezzi con diffusore interno rimovibile. Il tipo F, nella versione in metallo, viene ricavato da fusione mentre i tipi E, EE e FF sono ricavati da barra. Forniti con filettatura Gas conica (BSPT - UNI 339). Altre filettature: 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 per tutti i modelli E, EE e FF.

Fusione di acciaio inox AISI 316 e PVC da barra per il modello F. Altri materiali sono forniti a richiesta. (Vedi pag. 3)

APPLICAZIONI TIPICHE

Lavaggi e pulizie industriali, risciacqui e in tutti i casi dove è richiesto un angolo stretto con un forte impatto.

SPRAY CHARACTERISTICS

These produce a 15° or 30° higher impact full cone coarser spray pattern uniformity throughout the covered surface area.

CONSTRUCTION

The E and EE series are three-piece units composed of a body and both an orifice cap and an internal vane being removable to enable easier eventual nozzle cleaning. The F and FF series are two-piece units with their special removable internal vanes. The metal-made F models are cast type constructions whereas the E, EE and FF versions are bar-stock type units. All the above indicated nozzles have Gas tapered (BSPT - UNI 339) threadings. Different threadings: NPT, Gas parallel (BSPP - UNI 338), etc. are manufactured under special request basis.

STANDARD MATERIALS

Brass, stainless steel AISI 303, stainless steel AISI 316 and PVC for the E, EE and FF series, cast stainless steel AISI 316 and PVC bar-stock types for F models. Different product materials are available upon specific request. (See page 3 for list)

TYPICAL APPLICATIONS

Industrial washing and cleaning, rinsing and all cases in which there is the need for a narrow angle high-impact projection such as in internal spraying of ducts and pipes.

Tabella delle portate - E - EE - F 15° - Capacity chart

Ugello - Nozzle				Orifizio Orifice Ø Nom. mm	Pressione - Pressure (Bar)													Angolo di spruzzo Spray angle			
Attacco Pipe conn.	Femmina Female	Maschio Male	Codice Code		0,7	1	1,5	2	2,5	3	3,5	4	5	6	7	10	15	20	1 Bar	3 Bar	7 Bar
1/8"	E	EE	1507	1,59	1,33	1,60	1,95	2,26	2,52	2,76	2,98	3,19	3,57	3,91	4,22	5,04	6,18	7,13	13°	15°	15°
			1514	2,38	2,67	3,19	3,91	4,51	5,04	5,53	5,97	6,38	7,13	7,82	8,44	10,09	12,36	14,27	13°	15°	15°
1/4"	E	EE	1530	3,18	5,72	6,84	8,37	9,67	10,81	11,84	12,79	13,67	15,29	16,75	18,09	21,62	26,48	30,58	13°	15°	15°
3/8"	E	EE	1550	4,37	9,53	11,39	13,96	16,11	18,02	19,74	21,32	22,79	25,48	27,91	30,15	36,03	44,13	50,96	13°	15°	15°
1/2"	E	EE	1590	5,56	17,16	20,51	25,12	29,01	32,43	35,53	38,37	41,02	45,86	50,24	54,27	64,86	79,44	91,73	13°	15°	15°
3/4"	F		15150	7,54	28,60	34,18	41,87	48,34	54,05	59,21	63,95	68,37	76,44	83,73	90,44	108,10	132,39	152,88	13°	15°	15°
1"	F		15280	9,92	53,39	63,81	78,15	90,24	100,89	110,52	119,38	127,62	142,68	156,30	168,83	201,79	247,14	285,37	13°	15°	15°
1 1/4"	F		15430	12,30	81,99	97,99	120,02	138,58	154,94	169,73	183,33	195,99	219,12	240,04	259,27	309,88	379,53	438,24	14°	15°	15°
1 1/2"	F		15630	15,08	120,12	143,57	175,84	203,04	227,01	248,68	268,60	287,15	321,04	351,68	379,86	454,02	556,05	642,08	14°	15°	15°
2"	F		151150	20,24	219,27	262,08	320,98	370,63	414,38	453,93	490,30	524,15	586,02	641,96	693,39	828,76	1.015,02	1.172,04	14°	15°	15°
2 1/2"	F		151750	24,61	333,67	398,81	488,44	564,01	630,58	690,76	746,11	797,63	891,77	976,89	1.055,16	1.261,16	1.544,60	1.783,55	14°	15°	15°

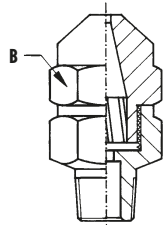
Tipi - 15° - Types

Costruzioni speciali

Specially made nozzles

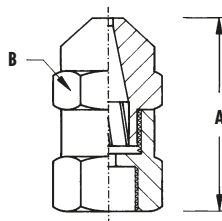
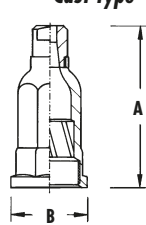


EE 15°



F 15°

Da fusione
Cast type



E 15°

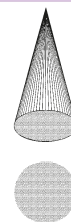


Dimensioni max ingombro - Max dimensions

Attacco Pipe connection	Ugello tipo - Nozzle type							
	15°-30° E		15°-30° EE		15° F		30° FF	
	A mm	B mm	A mm	B mm	A mm	B mm	A mm	B mm
1/8"	36	18 hex	38	18 hex				
1/4"	43	21 hex	45	21 hex				
3/8"	54	26 hex	56	26 hex				
1/2"	67	32 hex	70	32 hex				
3/4"	84	38 hex	88	38 hex	72	32 dia		
1"					92	38 dia	92	35 dia
1 1/4"					117	48 dia	127	45 dia
1 1/2"					127	60 dia	155	50 dia
2"					183	76 dia	200	60 dia
2 1/2"					233	88 dia	264	75 dia

Ugelli iniettori a cono pieno con angolo stretto

Narrow angle full cone spray nozzle injectors



E - EE - F - FF 15°-30°

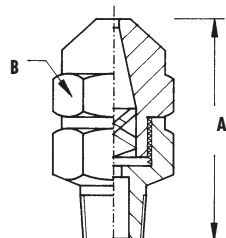
Tabella delle portate - E - EE - FF 30° - Capacity chart

Ugello - Nozzle				Orificio Orifice Ø Nom. mm	Pressione - Pressure (Bar)													Angolo di spruzzo Spray angle				
Attacco Pipe conn.	Femmina Female	Maschio Male	Codice Code		0,7	1	1,5	2	2,5	3	3,5	4	5	6	7	10	15	20	1 Bar	3 Bar	7 Bar	
				Portata - Capacity (l/min)																		
1/8"	E	EE	3001.4	0,79	0,27	0,32	0,39	0,45	0,51	0,56	0,60	0,64	0,72	0,79	0,85	1,02	1,24	1,44	17°	30°	31°	
			3002.5	0,79	0,48	0,57	0,70	0,81	0,91	0,99	1,07	1,15	1,28	1,40	1,52	1,81	2,22	2,56	17°	30°	32°	
			3004	1,19	0,77	0,92	1,12	1,30	1,45	1,59	1,72	1,83	2,05	2,25	2,43	2,90	3,55	4,10	26°	30°	32°	
			3007	1,59	1,34	1,61	1,97	2,27	2,54	2,78	3,00	3,21	3,59	3,93	4,25	5,08	6,22	7,18	23°	30°	30°	
1/4"	E	EE	3009	1,98	1,73	2,06	2,53	2,92	3,26	3,58	3,86	4,13	4,62	5,06	5,46	6,53	7,99	9,23	23°	30°	30°	
3/8"	E	EE	3014	2,38	2,69	3,21	3,93	4,54	5,08	5,56	6,01	6,42	7,18	7,87	8,50	10,15	12,44	14,36	25°	30°	30°	
1/2"	E	EE	3030	3,18	5,76	6,88	8,43	9,73	10,88	11,92	12,87	13,76	15,39	16,85	18,20	21,76	26,65	30,77	26°	30°	31°	
3/4"	E	EE	3050	4,37	9,59	11,47	14,04	16,22	18,13	19,86	21,45	22,93	25,64	28,09	30,34	36,26	44,41	51,28	26°	30°	31°	
1"		FF	3070	5,16	13,43	16,05	19,66	22,70	25,38	27,81	30,04	32,11	35,90	39,33	42,48	50,77	62,18	71,80	27°	30°	30°	
			30100	6,35	19,19	22,93	28,09	32,43	36,26	39,72	42,91	45,87	51,28	56,18	60,68	72,53	88,83	102,57	27°	30°	30°	
1 1/4"		FF	30150	7,54	28,78	34,40	42,13	48,65	54,39	59,59	64,36	68,80	76,93	84,27	91,02	108,79	133,24	153,85	27°	30°	30°	
			30200	8,73	38,38	45,87	56,18	64,87	72,53	79,45	85,81	91,74	102,57	112,36	121,36	145,05	177,65	205,14	27°	30°	30°	
1 1/2"		FF	30250	9,53	47,97	57,34	70,22	81,09	90,66	99,31	107,27	114,67	128,21	140,45	151,70	181,32	222,07	256,42	27°	30°	30°	
			30300	10,32	57,57	68,80	84,27	97,30	108,79	119,17	128,72	137,61	153,85	168,54	182,04	217,58	266,48	307,70	27°	30°	30°	
2"		FF	30350	11,11	67,16	80,27	98,31	113,52	126,92	139,04	150,18	160,54	179,49	196,63	212,38	253,84	310,89	358,99	28°	30°	30°	
			30400	11,91	76,75	91,74	112,36	129,74	145,05	158,90	171,63	183,48	205,14	224,72	242,72	290,11	355,31	410,27	28°	30°	30°	
			30500	13,49	95,94	114,67	140,45	162,17	181,32	198,62	214,54	229,35	256,42	280,89	303,40	362,63	444,13	512,84	28°	30°	30°	
2 1/2"		FF	30600	14,68	115,13	137,61	168,54	194,61	217,58	238,35	257,44	275,22	307,70	337,07	364,08	435,16	532,96	615,41	28°	30°	30°	
			30700	15,88	134,32	160,54	196,63	227,04	253,84	278,07	300,35	321,09	358,99	393,25	424,76	507,69	621,79	717,98	28°	30°	30°	
			301000	19,05	191,89	229,35	280,89	324,35	362,63	397,24	429,07	458,70	512,84	561,79	606,80	725,27	888,27	1025,68	28°	30°	30°	
			301100	19,84	211,08	252,28	308,98	356,78	398,90	436,97	471,98	504,57	564,12	617,97	667,48	797,79	977,09	1128,25	28°	30°	30°	
			301200	20,64	230,26	275,22	337,07	389,22	435,16	476,69	514,89	550,44	615,41	674,15	728,16	870,32	1065,92	1230,82	28°	30°	30°	

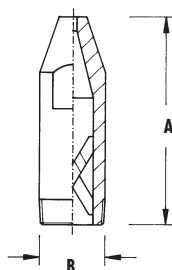
Tipi - 30° - Types



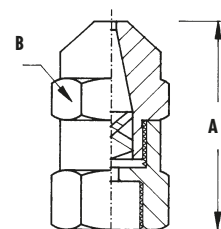
EE 30°



FF 30°



E 30°



Costruzioni speciali - Specially made nozzles



Per ordinare - 15° - To order

Specificare: - Please specify:

3/4"	F	15150	BR	=	3/4F15150BR
Attacco Pipe connection	Tipo Type	Codice Code	Materiale* Material*		Esempio Example

* Vedi Pag. 3 - See page 3 for list

Per ordinare - 30° - To order

Specificare: - Please specify:

1/2"	EE	3030	SS	=	1/2EE3030SS
Attacco Pipe connection	Tipo Type	Codice Code	Materiale* Material*		Esempio Example

* Vedi Pag. 3 - See page 3 for list