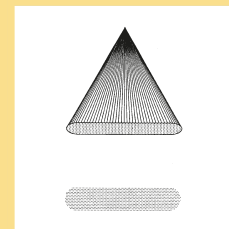


Ugelli con getto a lama per alte pressioni

High pressure flat spray nozzles



R3CREHSS - R3CRET

CARATTERISTICHE DI SPRUZZO

Getto piatto a lama con distribuzione uniforme su tutta la superficie interessata dallo spruzzo e un forte impatto a tutte le pressioni.

COSTRUZIONE

Queste punte sono costruite esclusivamente con attacco speciale a coda di rondine per garantire un perfetto allineamento, senza interferenze dei getti e per minimizzare i tempi d'installazione e manutenzione. L'orientamento dei getti è pre-inclinato di 15° rispetto all'asse del tubo. (Vedi schema di installazione) Vengono fornite con tre angoli di spruzzo standard di 25°, 30°, e 40° e sono consigliate per alte pressioni fino ad un massimo di 500 bar. Per il montaggio vengono utilizzati i loro tronchetti a saldare di varie lunghezze. (Vedi pagg. 112÷116)

MATERIALI STANDARD

Le punte R3CREHSS sono costruite in acciaio temprato, mentre le R3CRET hanno un corpo esterno in acciaio inox AISI 303 con un inserto-orifizio in carburo di tungsteno.

APPLICAZIONI TIPICHE

Progettati per la discagliatura dei laminati a caldo e per tutte quelle applicazioni dove è richiesto un forte impatto con pressioni elevate.

SPRAY CHARACTERISTICS

Flat spray with uniform distribution over the entire surface area and a strong impact at all pressures.

CONSTRUCTION

The R3CRE spray tips are manufactured exclusively with a dove-tail attachment to guarantee a perfect alignment and fixing to minimize installation and maintenance time. The above mentioned spray tips can be applied on their specific series of welding nipples illustrated on pages 112÷116. The flat spray is pre-set at 15° to the tube axis. (See drawing shown aside) They are available with three standard spray angles as follows: 25°, 30° and 40° and specialized for high pressures up to the maximum of 500 Bars.

STANDARD MATERIALS

Tip R3CREHSS is supplied in hardened steel and tip R3CRET in stainless steel body AISI 303 with tungsten carbide orifice insert.

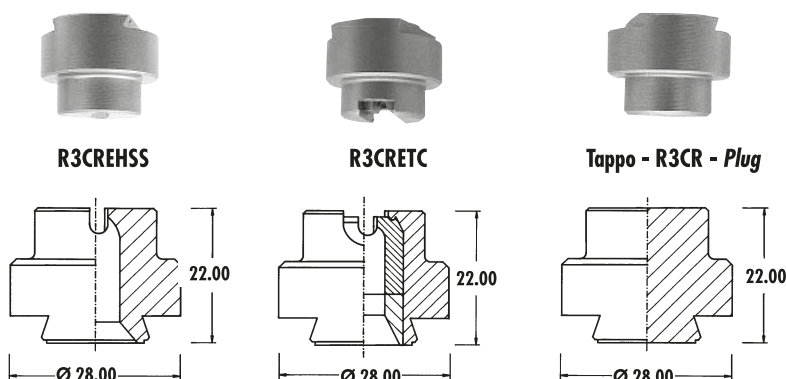
TYPICAL APPLICATIONS

Specifically modelled for hot descaling of rolled products and all types of applications which require a strong impact at elevated pressures.

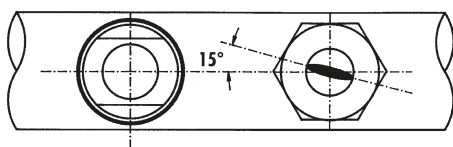
Tabella delle portate - Capacity chart

Ugello - Nozzle		Orifizio Orifice Ø EQ. mm	Pressione - Pressure (Bar)															
Tipo Type	Codice Code		20	30	50	70	80	100	110	120	130	140	150	190	200	210	240	250
Portata - Capacity (l/min)																		
R3CREHSS R3CRET	8	1.83	8,15	9,99	12,89	15,26	16,31	18,24	19,13	19,98	20,79	21,58	22,33	24,46	25,79	26,43	28,25	28,83
	10	1,98	10,19	12,48	16,12	19,07	20,39	22,79	23,91	24,97	25,99	26,97	27,92	30,58	32,24	33,03	35,31	36,04
	12,5	2,18	12,74	15,61	20,15	23,84	25,48	28,49	29,88	31,21	32,49	33,71	34,90	38,23	40,29	41,29	44,14	45,05
	15	2,38	15,29	18,73	24,18	28,61	30,58	34,19	35,86	37,45	38,98	40,45	41,87	45,87	48,35	49,55	52,97	54,06
	20	2,78	20,39	24,97	32,24	38,14	40,77	45,59	47,81	49,94	51,98	53,94	55,83	61,16	64,47	66,06	70,62	72,08
	25	3,18	25,48	31,21	40,29	47,68	50,97	56,98	59,77	62,42	64,97	67,42	69,79	76,45	80,59	82,58	88,28	90,10
	30	3,57	30,58	37,45	48,35	57,21	61,16	68,38	71,72	74,91	77,97	80,91	83,75	91,74	96,71	99,09	105,94	108,12
	32	3,65	32,21	39,45	50,93	60,26	64,42	72,03	75,54	78,90	82,12	85,22	88,22	96,64	101,86	104,38	111,59	113,89
	40	3,97	40,77	49,94	64,47	76,28	81,55	91,18	95,63	99,88	103,96	107,88	111,67	122,32	128,94	132,13	141,25	144,16
	50	4,37	50,97	62,42	80,59	95,35	101,94	113,97	119,53	124,85	129,94	134,85	139,58	152,91	161,18	165,16	176,56	180,20
	55	4,56	56,07	68,67	88,65	104,89	112,13	125,37	131,48	137,33	142,94	148,33	153,54	168,20	177,29	181,67	194,22	198,22
	60	4,76	61,16	74,91	96,71	114,42	122,32	136,76	143,44	149,82	155,93	161,82	167,50	183,49	193,41	198,19	211,87	216,24
70	5,16	71,36	87,39	112,82	133,49	142,71	159,56	167,34	174,79	181,92	188,79	195,42	214,07	225,65	231,22	247,18	252,28	

Tipi - Types



Schema d'installazione R3CREHSS - R3CRET R3CREHSS R3CRET installation layout



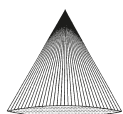
Componenti serie R3CREHSS - R3CRET 3CREHSS - R3CRET series components



Per ordinare, specificare - To order, specify

R3CRE	25°	30	TC	=	R3CRE2530TC
Tipo Type	Angolo Angle	Codice Code	Materiale* Material*		Esempio Example

* Vedi Pag. 3 - See page 3 for list



Ugelli con getto a lama per alte pressioni

High pressure flat spray nozzles

RTC

CARATTERISTICHE DI SPRUZZO

Getto piatto a lama con distribuzione uniforme anche a pressioni molto alte.

COSTRUZIONE

Il corpo esterno è costruito in acciaio inox AISI 303 mentre l'inserto è in carburo di tungsteno per garantire la massima resistenza possibile alle alte pressioni e all'abrasione. Le punte RTC vengono fornite con una vasta gamma di angoli e di portate.

APPLICAZIONI TIPICHE

Vengono usate negli impianti di verniciatura airless e per spruzzare prodotti abrasivi.

SPRAY CHARACTERISTICS

Flat spray tips with uniform pattern overlapped by adjacent spray passes; possible to be used also at very high pressures.

CONSTRUCTION

The tip body is provided in stainless steel AISI 303, while the orifice insert is made of tungsten carbide so as to ensure the maximum possible resistance against high pressures and abrasion. There is a vast range of angles and flow rates for the above mentioned tips.

TYPICAL APPLICATIONS

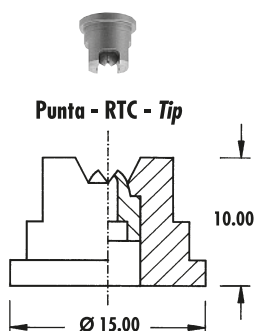
Used on airless-painting equipments, to spray highly abrasive pastes etc.

Tabella delle portate - Capacity chart

Ugello - Nozzle			Orifizio	Orifizio	Pressione - Pressure (Bar)					Copertura a 30 cm Coverage at 30 cm from nozzle
Type	Angolo Angle	Codice Code	Orifizio	Orifizio	35	70	105	140		
			Ø EQ. Inch	Ø EQ. mm	Portata - Capacity (l/min)					
R	25°	0004 TC	.005	0.13	0.05	0.07	0.09	0.10	12 cm	
		0008 TC	.007	0.18	0.10	0.16	0.18	0.21	14 cm	
		0011 TC	.009	0.23	0.15	0.20	0.25	0.29	14 cm	
		0017 TC	.011	0.28	0.20	0.30	0.37	0.45	15 cm	
		0025 TC	.013	0.33	0.34	0.45	0.56	0.68	15 cm	
		0033 TC	.015	0.38	0.40	0.60	0.70	0.80	17 cm	
		0050 TC	.018	0.46	0.60	0.90	1.10	1.30	17 cm	
		0067 TC	.021	0.53	0.90	1.20	1.50	1.70	20 cm	
		01 TC	.026	0.66	1.30	1.80	2.30	2.70	22 cm	
		015 TC	.031	0.79	2.00	2.80	3.40	4.10	22 cm	
02 TC	.036	0.91	2.60	3.70	4.50	5.30	22 cm			
R	40°	0004 TC	.005	0.13	0.05	0.07	0.09	0.10	16 cm	
		0008 TC	.007	0.18	0.10	0.16	0.18	0.21	16 cm	
		0011 TC	.009	0.23	0.15	0.20	0.25	0.29	17 cm	
		0017 TC	.011	0.28	0.20	0.30	0.37	0.45	19 cm	
		0025 TC	.013	0.33	0.34	0.45	0.56	0.68	20 cm	
		0033 TC	.015	0.38	0.40	0.60	0.70	0.80	21 cm	
		0050 TC	.018	0.46	0.60	0.90	1.10	1.30	25 cm	
		0067 TC	.021	0.53	0.90	1.20	1.50	1.70	28 cm	
		01 TC	.026	0.66	1.30	1.80	2.30	2.70	30 cm	
		015 TC	.031	0.79	2.00	2.80	3.40	4.10	30 cm	
		02 TC	.036	0.91	2.60	3.70	4.50	5.30	30 cm	
		03 TC	.043	1.09	4.10	5.60	6.80	7.90	30 cm	
		04 TC	.052	1.32	5.30	7.50	9.40	10.50	30 cm	
		R	50°	0008 TC	.007	0.18	0.10	0.16	0.18	0.21
0011 TC	.009			0.23	0.15	0.20	0.25	0.29	20 cm	
0017 TC	.011			0.28	0.20	0.30	0.37	0.45	21 cm	
0025 TC	.013			0.33	0.34	0.45	0.56	0.68	22 cm	
0033 TC	.015			0.38	0.40	0.60	0.70	0.80	25 cm	
0050 TC	.018			0.46	0.60	0.90	1.10	1.30	27 cm	
0067 TC	.021			0.53	0.90	1.20	1.50	1.70	30 cm	
01 TC	.026			0.66	1.30	1.80	2.30	2.70	35 cm	
015 TC	.031			0.79	2.00	2.80	3.40	4.10	35 cm	
02 TC	.036			0.91	2.60	3.70	4.50	5.30	35 cm	
03 TC	.043			1.09	4.10	5.60	6.80	7.90	35 cm	
04 TC	.052			1.32	5.30	7.50	9.40	10.50	35 cm	

Ugello - Nozzle			Orifizio	Orifizio	Pressione - Pressure (Bar)				Copertura a 30 cm Coverage at 30 cm from nozzle		
Tipo	Angolo	Codice	Orifizio	Orifizio	35	70	105	140			
Type	Angle	Code	Ø EQ. Inch	Ø EQ. mm	Portata - Capacity (l/min)						
R	65°	0011 TC	.009	0.23	0.15	0.20	0.25	0.29	23 cm		
		0017 TC	.011	0.28	0.20	0.30	0.37	0.45	25 cm		
		0025 TC	.013	0.33	0.34	0.45	0.56	0.68	26 cm		
		0033 TC	.015	0.38	0.40	0.60	0.70	0.80	27 cm		
		0050 TC	.018	0.46	0.60	0.90	1.10	1.30	33 cm		
		0067 TC	.021	0.53	0.90	1.20	1.50	1.70	38 cm		
		01 TC	.026	0.66	1.30	1.80	2.30	2.70	40 cm		
		015 TC	.031	0.79	2.00	2.80	3.40	4.10	40 cm		
		02 TC	.036	0.91	2.60	3.70	4.50	5.30	40 cm		
		03 TC	.043	1.09	4.10	5.60	6.80	7.90	40 cm		
		04 TC	.052	1.32	5.30	7.50	9.40	10.50	40 cm		
		06 TC	.062	1.57	7.90	11.30	13.90	15.80	40 cm		
R	80°	008 TC	.072	1.83	10.50	15.10	18.50	21.50	40 cm		
		10 TC	.078	1.98	13.20	18.90	23.00	26.80	40 cm		
		0017 TC	.011	0.28	0.20	0.30	0.37	0.45	29 cm		
		0025 TC	.013	0.33	0.34	0.45	0.56	0.68	31 cm		
		0033 TC	.015	0.38	0.40	0.60	0.70	0.80	33 cm		
		0050 TC	.018	0.46	0.60	0.90	1.10	1.30	38 cm		
		0067 TC	.021	0.53	0.90	1.20	1.50	1.70	43 cm		
		01 TC	.026	0.66	1.30	1.80	2.30	2.70	48 cm		
		015 TC	.031	0.79	2.00	2.80	3.40	4.10	48 cm		
		02 TC	.036	0.91	2.60	3.70	4.50	5.30	48 cm		
		03 TC	.043	1.09	4.10	5.60	6.80	7.90	48 cm		
		04 TC	.052	1.32	5.30	7.50	9.40	10.50	48 cm		
R	95°	006 TC	.062	1.57	7.90	11.30	13.90	15.80	48 cm		
		08 TC	.072	1.83	10.50	15.10	18.50	21.50	48 cm		
		10 TC	.078	1.98	13.20	18.90	23.00	26.80	48 cm		
		0033 TC	.015	0.38	0.40	0.60	0.70	0.80	38 cm		
		0050 TC	.018	0.46	0.60	0.90	1.10	1.30	43 cm		
		0067 TC	.021	0.53	0.90	1.20	1.50	1.70	48 cm		
		01 TC	.026	0.66	1.30	1.80	2.30	2.70	53 cm		
		015 TC	.031	0.79	2.00	2.80	3.40	4.10	53 cm		
		02 TC	.036	0.91	2.60	3.70	4.50	5.30	55 cm		
		R	110°	0033 TC	.015	0.38	0.40	0.60	0.70	0.80	43 cm
				0050 TC	.018	0.46	0.60	0.90	1.10	1.30	48 cm
				0067 TC	.021	0.53	0.90	1.20	1.50	1.70	53 cm
01 TC	.026			0.66	1.30	1.80	2.30	2.70	58 cm		
015 TC	.031			0.79	2.00	2.80	3.40	4.10	58 cm		
02 TC	.036			0.91	2.60	3.70	4.50	5.30	60 cm		

Tipi - Types



RTC



RRTC

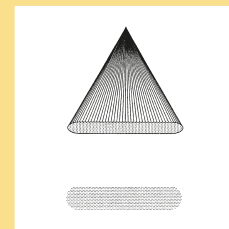
Per ordinare, specificare - To order, specify

R	65°	0067	TC	=	R650067TC
Tipo	Angolo	Codice	Materiale*		Esempio
Type	Angle	Code	Material*		Example

* Vedi Pag. 3 - See page 3 for list

Ugelli con getto a lama per alta pressione

High pressure flat spray nozzles



3/8" UMHSS - 3/4" UMTC

CARATTERISTICHE DI SPRUZZO

Getto piatto a lama con forte impatto e distribuzione uniforme su tutta la superficie coperta a tutte le pressioni. Produce un efficiente impatto con minima perdita di energia.

COSTRUZIONE E MATERIALI

Il modello 3/8"UMHSS è costruito in un solo pezzo esclusivamente in acciaio temprato AISI 440 mentre il modello 3/4"UMTC ha un corpo esterno in acciaio inox AISI 303 con inserto in carburo di tungsteno. Entrambi hanno un orifizio a forma di U per ottenere un getto uniforme su tutta la superficie coperta. Sono costruiti con tre angoli di spruzzo standard di 25°, 30° e 40° e possono essere usati con pressioni d'esercizio fino a 500 bar. Possono montare i loro speciali filtri e uno stabilizzatore di getto per aumentare la forza d'impatto.

Questi ugelli sono costruiti con attacchi maschio e filettatura Gas conica (BSPT - UNI 339). Filettature diverse: NPT, Gas cilindrica (BSPP - UNI 338), ecc. vengono fornite su specifica richiesta.

APPLICAZIONI TIPICHE

Discagliatura dei laminati a caldo e in tutte le applicazioni dove è richiesto l'uso di alte pressioni e un forte impatto.

SPRAY CHARACTERISTICS

Flat spray pattern with sharply cut edges, designed for a strong impact and distribution uniformity at all pressures. Suitable to produce an impinging force with high efficiency, reducing energy loss to the minimum.

CONSTRUCTION AND MATERIALS

The 3/8" UMHSS type is a single-piece construction exclusively in hardened stainless steel AISI 440 whereas the 3/4"UMTC series are manufactured with stainless steel body AISI 303 with its tungsten carbide orifice insert. Both types have the U-shaped groove in order to allow a uniform spray pattern over the entire covered surface. They are provided in three different standard angles of 25°, 30° and 40°, as well as guaranteed for use at high pressures up to the maximum of 500 Bars.

It is possible to fix up their respective appropriate strainers on both types. A spray stabilizing vane can be also mounted to re-inforce the impact efficiency. All the mentioned flat spray nozzles are male Gas tapered (BSPT - UNI 339). Different threadings: NPT, Gas parallel (BSPP - UNI 338) etc. are available on specific request basis.

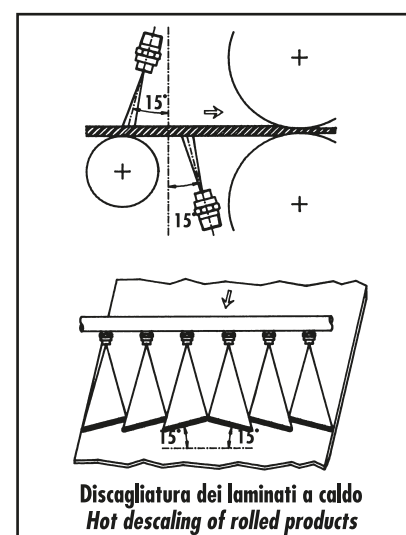
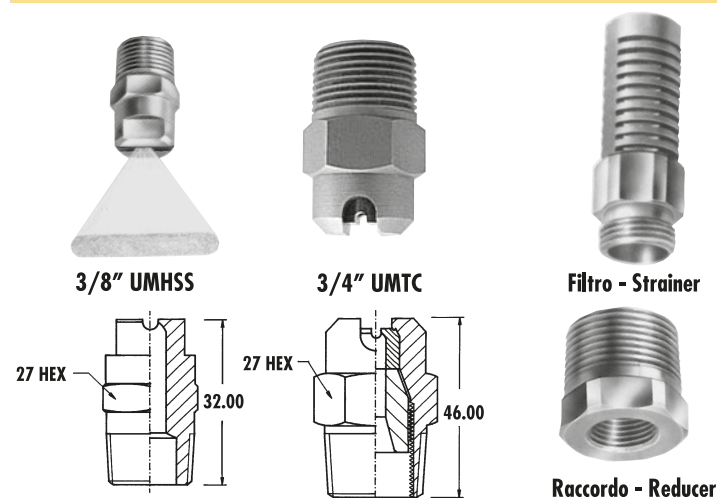
TYPICAL APPLICATIONS

Specialized for hot descaling of rolled products as well as all operations in which there is the need for a strong impact at high pressures.

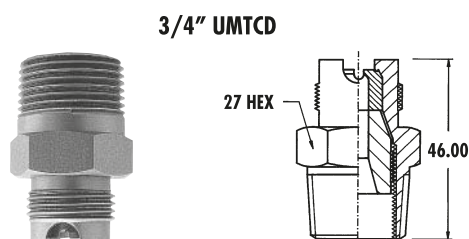
Tabella delle portate - Capacity chart

Ugello - Nozzle			Orifizio Orifice Ø EQ. mm	Pressione - Pressure (Bar)																
Attacco maschio Male pipe connection	Tipo Type	Codice Code		42	56	70	85	98	112	126	140	154	168	182	196	210	245	280	315	350
Portata - Capacity (l/min)																				
3/8" 3/4"	UMHSS UMTC	10	1,98	14,77	17,06	19,07	21,01	22,56	24,12	25,59	26,97	28,29	29,54	30,75	31,91	33,03	35,68	38,14	40,45	42,64
		15	2,38	22,16	25,59	28,61	31,52	33,85	36,18	38,38	40,45	42,43	44,32	46,13	47,87	49,55	53,52	57,21	60,68	63,96
		20	2,78	29,54	34,11	38,14	42,03	45,13	48,25	51,17	53,94	56,57	59,09	61,50	63,82	66,06	71,36	76,28	80,91	85,29
		25	3,18	36,93	42,64	47,68	52,54	56,41	60,31	63,96	67,42	70,72	73,86	76,88	79,78	82,58	89,19	95,35	101,14	106,61
		30	3,57	44,32	51,17	57,21	63,04	67,69	72,37	76,76	80,91	84,86	88,63	92,25	95,73	99,09	107,03	114,42	121,36	127,93
		40	3,97	59,09	68,23	76,28	84,06	90,26	96,49	102,34	107,88	113,15	118,18	123,00	127,65	132,13	142,71	152,56	161,82	170,57
		50	4,37	73,86	85,29	95,35	105,07	112,82	120,61	127,93	134,85	141,43	147,72	153,75	159,56	165,16	178,39	190,71	202,27	213,22
		60	4,76	88,63	102,34	114,42	126,09	135,39	144,74	153,52	161,82	169,72	177,26	184,50	191,47	198,19	214,07	228,85	242,73	255,86
		70	5,16	103,40	119,40	133,49	147,10	157,95	168,86	179,10	188,79	198,00	206,81	215,25	223,38	231,22	249,75	266,99	283,18	298,50

Tipi - Types



Costruzione speciale - Specially made nozzle



Per ordinare, specificare - To order, specify

3/4"	UM	25°	30	TC	=	3/4UM2530TC
Attacco maschio Pipe connection	Tipo Type	Angolo Angle	Codice Code	Materiale* Material*		Esempio Example

* Vedi Pag. 3 - See page 3 for list