

5R/70

5 Rulli
5 Rolls
5 Galets
5 Rollen



Per tubi di sottile spessore in materiale ad alta tecnologia e piastre tubiere di piccolo spessore

For thin tubes made of high-tech materials and small thickness tube-sheets
Pour tubes d'épaisseur fine en matériau à haute technologie et plaques tubulaires de faible épaisseur
Für Rohre mit geringer Wandstärke aus High-Tech-Materialien und Rohrböden mit geringer Stärke

$RE_{min} = 3/8'' (9,5 \text{ mm})$



$RE_{max} = 3.1/4'' (82,6 \text{ mm})$



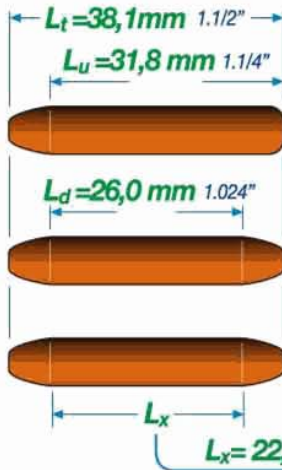
Codice d'esempio per ordinazione mandrini

Sample code for ordering tube expanders
Code d'exemple pour commande dudgeons
Bestellnr. Bestellbeispiel Rohrwalze

$d_e 1'' - 20 \text{ B.W.G.}$

Testa di battuta

Thrust collar
Tête de butée
Anschlagkopf



STD

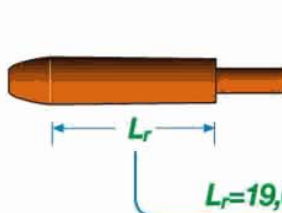
5R70.#-11

DLS

5R70.#-11-DLS

DLX

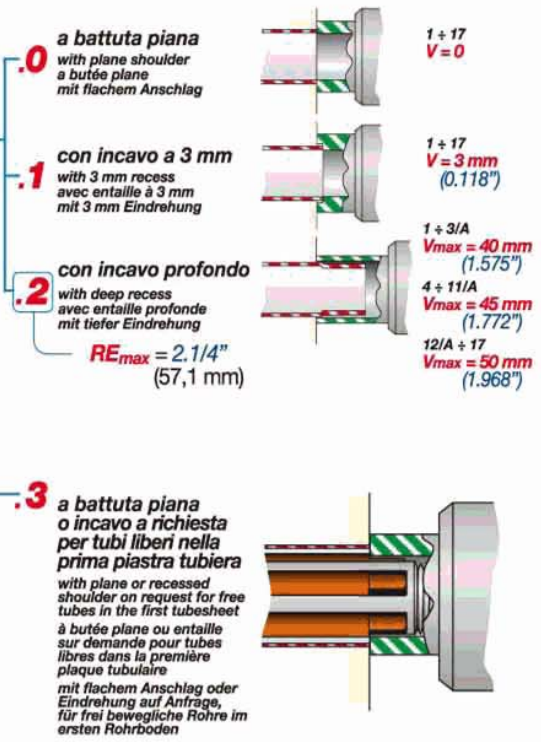
5R70.#-11-DLX L_x



BCR

5R70.3-11-BCR L_r

$L_r = 19,0 \div 30,0 \text{ mm } 0.750'' \div 1.181''$



de inches mm	Tubo Tube Rohr		Espansione Expansion Expansion Walzbereich		Mandrino Tube expander Dudgeon Rohrwalzen Cod.	Rulli Rolls Galets Rollen Cod.	Spina Mandrel Broche Dorn Cod.	Mandrinatrici consigliate Suggested rolling machines Dudgeonneuses conseillées Empfohlene Rohreinwalzanlagen
	sp inches mm	dj inches mm	inches mm	inches mm				
5/8'' (15,9)	20	0.035	0,89	0.555	14,1	5R70.#-1-M	MR5	F90 MP/2 M4/V MS/60 Matex
	21	0.032	0,81	0.561	14,3			
	22	0.028	0,71	0.569	14,5			
	23	0.025	0,64	0.575	14,6	5R70.#-1/A-M	MR6	
3/4'' (19,0)	16	0.065	1,65	0.620	15,7	5R70.#-2/A	MR6	F90 M4/V MP/1 MS/60 Matex
	17	0.058	1,47	0.634	16,0	5R70.#-3	MR7	
	18	0.049	1,24	0.652	16,5			
	19	0.042	1,07	0.666	16,8	5R70.#-3/A	MR8	
	20	0.035	0,89	0.680	17,2	5R70.#-4	MR7	
	21	0.032	0,81	0.686	17,4			
	22	0.028	0,71	0.694	17,6	5R70.#-5	MR8	
	23	0.025	0,64	0.700	17,7			
24	0.022	0,56	0.706	17,9				

Per tubi liberi nella prima piastra tubiera si raccomandano rulli BCR

BCR rolls are recommended in case of free tubes in the first tubesheet

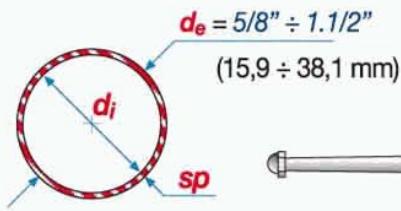
Pour tubes libres dans la première plaque, on recommande d'utiliser des galets BCR

Für frei bewegliche Rohre im ersten Rohrboden werden BCR-Rollen empfohlen

5R70.3-YY-BCR L_r

TE-46





d_e inches mm	Tubo Tube Rohr		d_i		Espansione Expansion Walzbereich		Mandrino Tube expander Dudgeon Rohrwalzen	Rulli Rolls Galets Rollen	Spina Mandrel Broche Dorn	inches mm	Mandrinatrici consigliate Suggested rolling machines Dudgeonneuses conseillées Empfohlene Rohreinwalzanlagen	
	B.W.G.	sp inches mm	d_i inches mm	d_i inches mm	inches mm	inches mm	Cod.	Cod.	Cod.		Elettriche Electrical Electriques elektrisch	Pneumatiche Pneumatic Pneumatiques pneumatisch
7/8" (22,2)	16	0.065	1,65	0.745	18,9	0.720 ÷ 0.807	18,3 ÷ 20,5	5R70.#-6-M	MR7	7-6÷6/A	3/8" (9,5)	F90 M4/V M4/L MS/60 MP/1 Matex Macrol 750
	17	0.058	1,47	0.759	19,2	0.736 ÷ 0.823	18,7 ÷ 20,9	5R70.#-6/A-M	MR8			
	18	0.049	1,24	0.777	19,7							
	19	0.042	1,07	0.791	20,0	0.760 ÷ 0.850	19,3 ÷ 21,6	5R70.#-7/A-M	MR9			
	20	0.035	0,89	0.805	20,4							
	21	0.032	0,81	0.811	20,6	0.795 ÷ 0.886	20,2 ÷ 22,5	5R70.#-8-M	MR10			
	22	0.028	0,71	0.819	20,8							
	23	0.025	0,64	0.825	20,9							
24	0.022	0,56	0.831	21,1								
1" (25,4)	16	0.065	1,65	0.870	22,1	0.842 ÷ 0.941	21,4 ÷ 23,9	5R70.#-9/A	MR11	7-9/A÷11/A	3/8" (9,5)	F90 M4/V M4/L MS/60 Matex Macrol 750
	17	0.058	1,47	0.884	22,4	0.866 ÷ 0.964	22,0 ÷ 24,5	5R70.#-10	MR12			
	18	0.049	1,24	0.902	22,9							
	19	0.042	1,07	0.916	23,2	0.894 ÷ 0.992	22,7 ÷ 25,2	5R70.#-11	MR14			
	20	0.035	0,89	0.930	23,6							
	21	0.032	0,81	0.936	23,8	0.921 ÷ 1.020	23,4 ÷ 25,9	5R70.#-11/A	MR15			
	22	0.028	0,71	0.944	24,0							
	23	0.025	0,64	0.950	24,1							
24	0.022	0,56	0.956	24,3								
1.1/8" (28,5)	18	0.049	1,24	1.027	26,0	0.992 ÷ 1.116	25,2 ÷ 28,6	5R70.#-12/A-M	MR15	7-12/A÷14	1/2" (12,7)	F90 M4/V M4/L MS/60 Matex Macrol 750
	19	0.042	1,07	1.041	26,3							
	20	0.035	0,89	1.055	26,7							
	21	0.032	0,81	1.061	26,9							
1.1/4" (31,8)	16	0.065	1,65	1.120	28,5	1.071 ÷ 1.220	27,2 ÷ 31,0	5R70.#-13/A	MR19	7-12/A÷14	1/2" (12,7)	F90 M4/L M4/V Matex Macrol 450
	17	0.058	1,47	1.134	28,8	1.102 ÷ 1.251	28,0 ÷ 31,8	5R70.#-14	MR21			
	18	0.049	1,24	1.152	29,3							
	19	0.042	1,07	1.166	29,6							
	20	0.035	0,89	1.180	30,0							
	21	0.032	0,81	1.186	30,2							
1.1/2" (38,1)	15	0.072	1,83	1.356	34,4	1.260 ÷ 1.406	32,0 ÷ 35,7	5R70.#-16	MR26	7-16÷17	1/2" (12,7)	F90 M4/L M4/V Matex Macrol 450
	16	0.065	1,65	1.370	34,8	1.299 ÷ 1.449	33,0 ÷ 36,8	5R70.#-16/A	MR29			
	17	0.058	1,47	1.384	35,1							
	18	0.049	1,24	1.402	35,6	1.358 ÷ 1.508	34,5 ÷ 38,3	5R70.#-17	MR30-S			
	19	0.042	1,07	1.416	35,9							
	20	0.035	0,89	1.430	36,3							
	21	0.032	0,81	1.436	36,5							
22	0.028	0,71	1.444	36,7								

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Für frei bewegliche Rohre im ersten Rohrboden werden BCR-Rollen empfohlen

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Consigliate
Suggested
Conseillées
Empfehlung

Possibili
Possible
Possibles
Variationsmöglichkeiten

MAUS

TE-47