Catalogo PVDF-ECTFE - Materiale ECTFE

L'ECTFE – Etileneclorotrifluoroetilene – è un materiale meno conosciuto, ma ha caratteristiche che nessun altro materiale termoplastico riesce a raggiungere. Grazie alla fortuita combinazione di possedere come copolimero, nella sua catena molecolare in modo ripetitivo, un elemento di Etilene seguito da un elemento di Clorotrifluoruroetilene; ciò permette all'ECTFE – Etileneclorotrifluoroetilene – di essere fisiologicamente applicabile senza limitazioni, resistere a temperature elevate di 150°C anche per tempi lunghi, ed ha la più alta resistenza tra i materiali termoplastici di resistere all'irraggiamento a alle intemperie. Questo materiale ha una elevata resilienza abbinata con una buona resistenza meccanica che non si scostano nei loro valori per l'intero campo di temperatura. Grazie alla superficie liscia dei componenti in questo materiale, non esiste una base per la crescita di fauna microbiologica ed è applicabile sia nel campo alimentare che nell' industria di produzione dei microchips. Questo materiale ha, come anche gli altri termoplastici, le caratteristiche di buona e facile saldabilità e semplice lavorabilità.

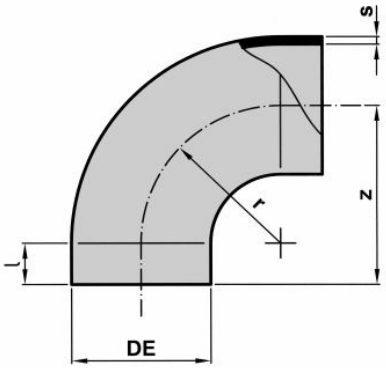
Il comportamento al fuoco ha la classe V-0 misurato secondo la norma UL 94; pertanto questo materiale e classificato come autoestinguente.

La linea ECTFE comprende raccorderia, tubazioni dal DE 20 mm fino al DE 110 mm in PN 10, valvole a membrana dal DN 15 mm fino al DN 50 mm PN 10 secondo la UNI EN ISO 16138 e semilavorati come lastre, filo di saldatura e tondi pieni .

Le saldature di ECTFE possono essere realizzate secondo il procedimento testa a testa sia con diretto contatto o per irraggiamento con macchine saldatrici manuali o automatiche.

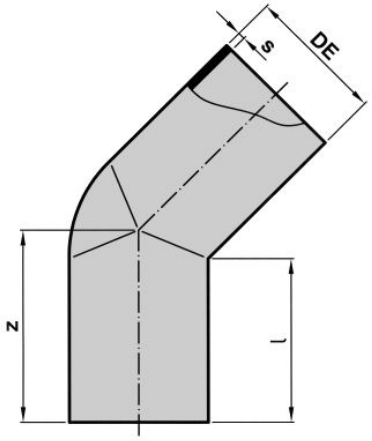
Raccordi per saldatura testa a testa	Tubazioni, valvole ed accessori	Semilavorati

ECTFE
Raccordi per saldatura testa a testa
Curve 90 gradi, con terminali prolungati



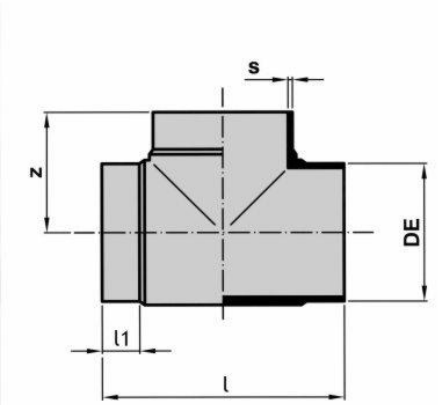
ARTICOLO		PN 10					
DE [mm]	ECTFE 6.022_7	r [mm]	z [mm]	s [mm]	l [mm]	Peso [Kg]	Conf. [Pz/Pc]
20	6.022.0020.7	20	51 ±2,0	1,9	32 ±3,0	0,02	200
25	6.022.0025.7	25	56 ±2,0	1,9	33 ±3,0	0,03	50
32	6.022.0032.7	32	63 ±3,0	2,4	33 ±3,0	0,05	70
40	6.022.0040.7	40	73 ±3,0	2,4	36 ±3,0	0,07	5
50	6.022.0050.7	50	84 ±2,0	3,0	36 ±3,0	0,13	30
63	6.022.0063.7	63	97 ±3,0	3,0	38 ±3,0	0,19	14
75	6.022.0075.7	75	100 ±3,0	3,6	28 ±3,0	0,29	1
90	6.022.0090.7	90	123 ±3,0	4,3	34 ±3,0	0,50	14
110	6.022.0110.7	110	142 ±3,0	5,3	34 ±3,0	0,83	8
140	6.022.0140.7	140	216 ±3,0	6,7	73 ±3,0	2,68	1
160	6.022.0160.7	160	236 ±3,0	7,7	75 ±3,0	2,65	1

ECTFE
Raccordi per saldatura testa a testa
Gomiti 45 gradi, con terminali prolungati



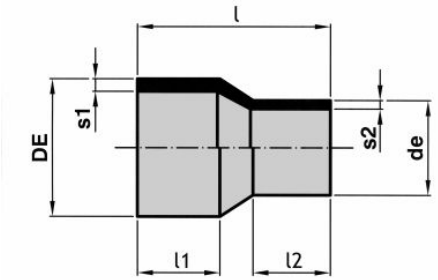
ARTICOLO		PN 10				
DE [mm]	ECTFE 6.031_7	z [mm]	s [mm]	l [mm]	Peso [Kg]	Conf. [Pz/Pc]
20	6.031.0020.7	43 ±2,0	1,9	39 ±2,0	0,02	80
25	6.031.0025.7	45 ±2,0	1,9	40 ±2,0	0,02	100
32	6.031.0032.7	52 ±2,0	2,4	46 ±2,0	0,04	80
40	6.031.0040.7	52 ±2,0	2,4	46 ±2,0	0,05	16
50	6.031.0050.7	66 ±2,0	3,0	56 ±2,0	0,09	30
63	6.031.0063.7	75 ±2,0	3,0	62 ±2,0	0,15	20
75	6.031.0075.7	50 ±2,0	3,6	32 ±2,0	0,15	16
90	6.031.0090.7	59 ±2,0	4,3	36 ±2,0	0,15	16
110	6.031.0110.7	68 ±2,0	5,3	45 ±2,0	0,15	16
140	6.031.0140.7	85 ±2,0	6,7	57 ±2,0	1,29	16
160	6.031.0160.7	103 ±2,0	7,7	65 ±2,0	1,26	16

ECTFE
Raccordi per saldatura testa a testa
T 90 gradi normali



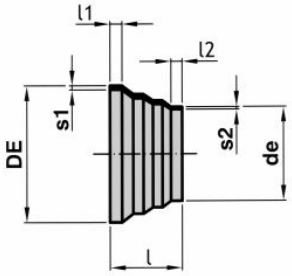
ARTICOLO		PN 10					
DE [mm]	ECTFE 6.040_7	z [mm]	s [mm]	l [mm]	l1 [mm]	Peso [Kg]	Conf. [Pz/Pc]
20	6.040.0020.7	38 ±2,0	1,9	75 ±2,0	25 ±2,0	0,08	100
25	6.040.0025.7	42 ±2,0	1,9	84 ±2,0	25 ±2,0	0,03	100
32	6.040.0032.7	46 ±2,0	2,4	90 ±2,0	25 ±2,0	0,06	50
40	6.040.0040.7	58 ±2,0	2,4	116 ±2,0	31 ±2,0	0,10	16
50	6.040.0050.7	64 ±2,0	3,0	126 ±2,0	31 ±2,0	0,11	25
63	6.040.0063.7	70 ±2,0	3,0	140 ±2,0	31 ±2,0	0,21	15
75	6.040.0075.7	89 ±2,0	3,6	178 ±2,0	42 ±2,0	0,31	50
90	6.040.0090.7	92 ±2,0	4,3	185 ±2,0	33,5 ±2,0	0,45	6
110	6.040.0110.7	110 ±2,0	5,3	221 ±2,0	33,5 ±2,0	1,09	6
140	6.040.0140.7	154 ±2,0	6,7	308 ±2,0	60 ±2,0	0,08	50
160	6.040.0160.7	140 ±2,0	7,7	279 ±2,0	45 ±2,0	0,94	50

ECTFE
Raccordi per saldatura testa a testa
Riduzioni concentriche, con terminali prolungati



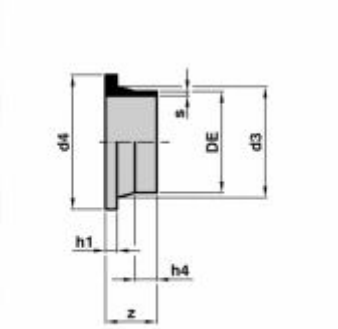
ARTICOLO		PN 10						
DE/de [mm/mm]	ECTFE 6.051_7	s1 [mm]	s2 [mm]	l [mm]	l1 [mm]	l2 [mm]	Peso [Kg]	Conf. [Pz/Pc]
25/20	6.051.2520.7	1,9	1,9	50 ±4,0	20 ±2,0	20 ±2,0	0,01	120
32/25	6.051.3225.7	2,4	1,9	50 ±4,0	20 ±2,0	20 ±2,0	0,02	80
40/32	6.051.4032.7	2,4	2,4	55 ±4,0	20 ±2,0	20 ±2,0	0,03	40
50/25	6.051.5025.7	3,0	1,9	60 ±4,0	24 ±2,0	20 ±2,0	0,04	80
50/32	6.051.5032.7	3,0	2,4	60 ±4,0	25 ±2,0	20 ±2,0	0,04	40
63/32	6.051.6332.7	3,0	2,4	65 ±4,0	25 ±2,0	18 ±2,0	0,06	50
63/50	6.051.6350.7	3,0	3	65 ±4,0	25 ±2,0	24 ±2,0	0,06	40
110/63	6.051.1163.7	5,3	3,0	103 ±4,0	30 ±2,0	33 ±2,0	0,22	16
110/90	6.051.1190.7	5,3	4,3	90 ±4,0	30 ±2,0	35 ±2,0	0,24	16
140/110	6.051.1411.7	6,7	5,3	110 ±4,0	42 ±2,0	40 ±2,0	0,48	80
160/110	6.051.1611.7	7,7	5,3	199 ±4,0	95 ±2,0	58 ±2,0	1,05	80
160/140	6.051.1614.7	7,7	6,7	188 ±4,0	95 ±2,0	58 ±2,0	1,35	80

ECTFE
Raccordi per saldatura testa a testa
Riduzioni concentriche con diametri intermedi



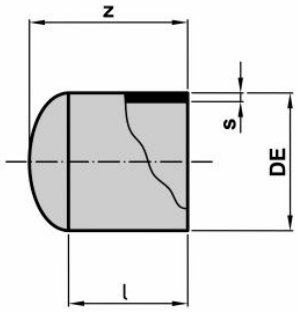
ARTICOLO		PN 10						
DE/de [mm/mm]	ECTFE 6.055_7	s1 [mm]	s2 [mm]	l [mm]	l1 [mm]	l2 [mm]	Peso [Kg]	Conf. [Pz/Pc]
110/63	6.055.1163.7	5,3	3,0	65 ±2,0	11	7	0,14	20

ECTFE
Raccordi per saldatura testa a testa
Cartelle



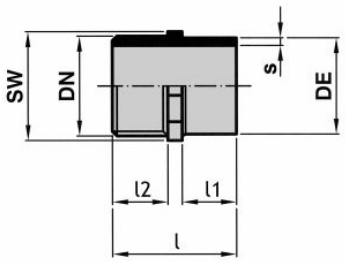
ARTICOLO		PN 10							
DE [mm]	ECTFE 6.060_7	z [mm]	s [mm]	d3 [mm]	d4 [mm]	h1 [mm]	h4 [mm]	Peso [Kg]	Conf. [Pz/Pc]
20	6.060.0020.7	49 +5,0	1,9	27 -4.0	45 -2.0	6,0 +1,0	31 +2,0	0,07	100
25	6.060.0025.7	50 +5,0	1,9	33 -4.0	58 -2.0	6,5 +1,0	30 +2,0	0,04	80
32	6.060.0032.7	50 +5,0	2,4	40 -4.0	68 -2.0	7,0 +1,0	26 +2,0	0,07	60
40	6.060.0040.7	50 +5,0	2,4	50 -4.0	78 -2.0	8,0 +1,0	24 +2,0	0,07	5
50	6.060.0050.7	50 +5,0	3,0	61 -4.0	88 -2.0	9,0 +1,0	22 +2,0	0,15	40
63	6.060.0063.7	50 +5,0	3,0	76 -4.0	102 -2.0	10,0 +1,0	19,5 +2,0	0,20	30
75	6.060.0075.7	50 +5,0	3,6	89 -4.0	122 -2.0	10,0 +1,0	20 +2,0	0,20	70
90	6.060.0090.7	80 +5,0	4,3	105 -4,0	138 -2,0	11,0 +1,0	42 +2,0	0,53	10
110	6.060.0110.7	80 +5,0	5,3	125 -4.0	158 -2.0	12,0 +1,0	40 +2,0	0,63	20
140	6.060.0140.7	81 +5,0	7,7	175 -4.0	212 -2.0	16,0 +1,0	36,5 +2,0	1,02	70
160	6.060.0160.7	81 +5,0	7,7	175 -4,0	212 -2,0	16,0 +1,0	36,5 +2,0	0,63	70

ECTFE
Raccordi per saldatura testa a testa
Calotte, con terminali prolungati



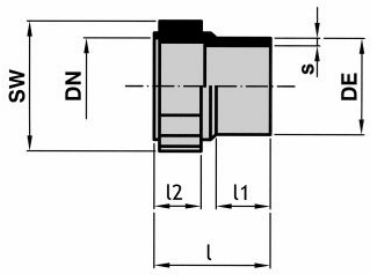
ARTICOLO		PN 10				
DE [mm]	ECTFE 6.071_7	z [mm]	s [mm]	l [mm]	Peso [Kg]	Conf. [Pz/Pc]
20	6.071.0020.7	48 ±2,0	1,9	41 ±2,0	0,03	100
25	6.071.0025.7	48 ±2,0	1,9	41 ±2,0	0,03	120
32	6.071.0032.7	52 ±2,0	2,4	42 ±2,0	0,03	100
40	6.071.0040.7	60 ±2,0	2,4	48 ±2,0	0,03	30
50	6.071.0050.7	64 ±3,0	3,0	48 ±3,0	0,06	70
63	6.071.0063.7	69 ±3,0	3,0	50 ±3,0	0,10	40

ECTFE
Raccordi per saldatura testa a testa
Nippli con filetto maschio



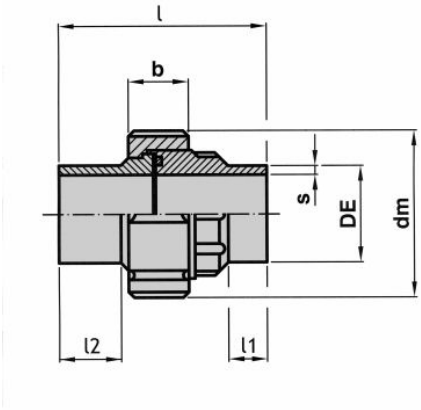
ARTICOLO		PN 10								
DE [mm]	ECTFE Filetto GAS 6.100_7	s [mm]	l [mm]	l1 [mm]	l2 [mm]	SW [mm]	DN [inch]	MOP [bar]	Peso [Kg]	Conf. [Pz/Pc]
20	6.100.2012.7	1,9	46 ±4,0	18 ±2,0	18 ±2,0	22,0 ±3,0	1/2"	10	0,01	100
25	6.100.2534.7	1,9	51 ±4,0	20 ±2,0	20 ±2,0	27,0 ±3,0	3/4"	10	0,02	70
32	6.100.3210.7	2,4	61 ±4,0	23 ±2,0	23 ±2,0	36,0 ±3,0	1"	10	0,03	50

ECTFE
Raccordi per saldatura testa a testa
Nippli con filetto femmina



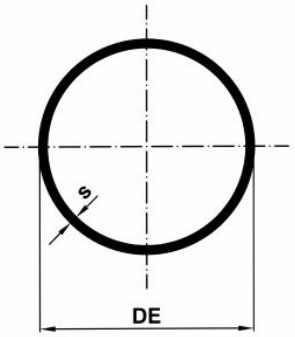
ARTICOLO		PN 10								
DE [mm]	ECTFE Filetto GAS 6.104_7	s [mm]	l [mm]	l1 [mm]	l2 [mm]	SW [mm]	DN [inch]	MOP [bar]	Peso [Kg]	Conf. [Pz/Pc]
20	6.104.2012.7	1,9	46 ±4,0	20 ±2,0	16 ±2,0	32	1/2"	10	0,03	100
25	6.104.2534.7	1,9	51 ±4,0	23 ±2,0	18 ±2,0	41	3/4"	10	0,05	50
32	6.104.3210.7	2,4	58 ±4,0	29 ±2,0	20 ±2,0	46	1"	10	0,07	70

ECTFE
Raccordi per saldatura testa a testa
Bocchettoni



ARTICOLO		PN 10								
DE [mm]	ECTFE FPM 6.121_7	s [mm]	l [mm]	l1 [mm]	l2 [mm]	dm [mm]	b [mm]	MOP [bar]	Peso [Kg]	Conf. [Pz/Pc]
20	6.121.0020.7	1,9	108	24	35,5	47,0	24	10	0,08	50
25	6.121.0025.7	1,9	111	24	36,5	57,0	26	10	0,11	50
32	6.121.0032.7	2,4	120	25	39,3	64,0	30	10	0,16	30
40	6.121.0040.7	2,4	125	28	42	76,5	31	10	0,15	70
50	6.121.0050.7	3,0	132	25	40,0	89,0	35	10	0,34	30
63	6.121.0063.7	3,0	137	25	40,5	109,0	39	10	0,40	30

ECTFE
Tubazioni, valvole ed accessori
Tubazioni

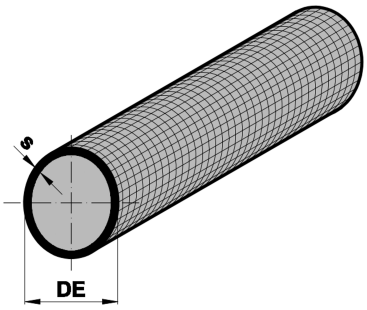


ARTICOLO		PN 3,2			
DE [mm]	ECTFE 6.001_4	s [mm]	Lunghezza [mt]	Peso [Kg]	Conf. [Pz/Pc]
160	6.001.0160.4	3,0	5	4,37	1

ARTICOLO		PN 5			
DE [mm]	ECTFE 6.001_5	s [mm]	Lunghezza [mt]	Peso [Kg]	Conf. [Pz/Pc]
110	6.001.0110.5	3,0	5	1,83	1

ARTICOLO		PN 10			
DE [mm]	ECTFE 6.001_7	s [mm]	Lunghezza [mt]	Peso [Kg]	Conf. [Pz/Pc]
20	6.001.0020.7	1,9	5	0,20	1
25	6.001.0025.7	1,9	5	0,25	1
32	6.001.0032.7	2,4	5	0,41	1
40	6.001.0040.7	2,4	5	0,52	1
50	6.001.0050.7	3,0	5	0,80	1
63	6.001.0063.7	3,0	5	1,03	1
75	6.001.0075.7	3,6	5	1,46	1
90	6.001.0090.7	4,3	5	2,10	1
110	6.001.0110.7	5,3	5	3,14	1
140	6.001.0140.7	6,7	5	5,01	1
160	6.001.0160.7	7,7	5	6,57	1

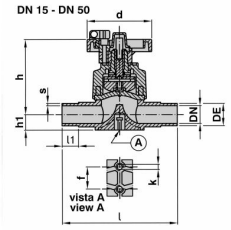
ECTFE
Tubazioni, valvole ed accessori
Tubazioni liner con aggancio per rivestimento

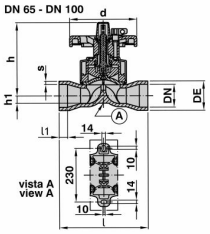


ARTICOLO		SIZES			
DE [mm]	ECTFE aggancio sintetico 6.001.50_1	s [mm]	Lunghezza [mt]	Peso [Kg]	Conf. [Pz/Pc]
20	6.001.5020.1	1,9	5	0,31	1
25	6.001.5025.1	1,9	5	0,39	1
32	6.001.5032.1	2,4	5	0,57	1
40	6.001.5040.1	2,4	5	0,73	1
50	6.001.5050.1	3,0	5	1,05	1
63	6.001.5063.1	3,0	5	1,35	1
90	6.001.5090.1	2,8	5	1,90	1
110	6.001.5011.1	3,0	5	2,40	1
160	6.001.5016.1	3,0	5	3,56	1
200	6.001.5002.1	4,0	5	27,80	1

ARTICOLO		SIZES			
DE [mm]	ECTFE aggancio sintetico 6.001.51_1	s [mm]	Lunghezza [mt]	Peso [Kg]	Conf. [Pz/Pc]
20	6.001.5120.1	1,9	1	0,31	1
25	6.001.5125.1	1,9	1	0,39	1
32	6.001.5132.1	2,4	1	0,57	1
40	6.001.5140.1	2,4	1	0,73	1
50	6.001.5150.1	3,0	1	1,05	1
63	6.001.5163.1	3,0	1	1,35	1
90	6.001.5190.1	2,8	1	1,90	1
110	6.001.5111.1	3,0	1	2,40	1
160	6.001.5116.1	3,0	1	3,56	1
200	6.001.5102.1	4,0	1	5,56	1

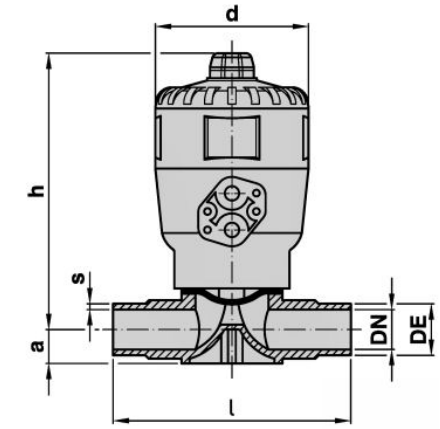
ECTFE
Tubazioni, valvole ed accessori
Valvole a membrana - terminali lisci





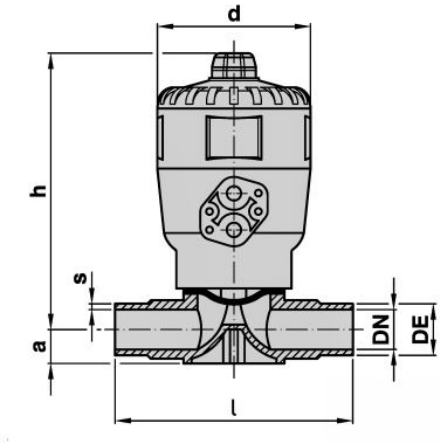
ARTICOLO		PN 10										
DE/DN [mm/mm]	ECTFE EPDM rivestita PTFE 6.298_708	s [mm]	l [mm]	l1 [mm]	h [mm]	h1 [mm]	d [mm]	f [mm]	k [mm]	MOP [bar]	Peso [Kg]	Conf. [Pz/Pc]
20/15	6.298.0015.708	1,9	133	36,0	100	16,5	85	24,5	M6	10	0,50	1
25/20	6.298.0020.708	1,9	144	36,0	100	17	85	24,5	M6	10	0,50	1
32/25	6.298.0025.708	2,4	154	36,0	107	20,5	85	24,5	M6	10	0,70	1
40/32	6.298.0032.708	2,4	195,5	47,8	144	25,5	135	25,5	M6	10	0,70	70
50/40	6.298.0040.708	3,0	194	48,3	144	32,0	135	44,0	M8	10	1,60	1
63/50	6.298.0050.708	3,0	224	54,0	170	38,5	135	44,0	M8	10	2,35	1

ECTFE
Tubazioni, valvole ed accessori
Valvole a membrana con attuatore pneumatico e indicatore visivo, terminali lisci



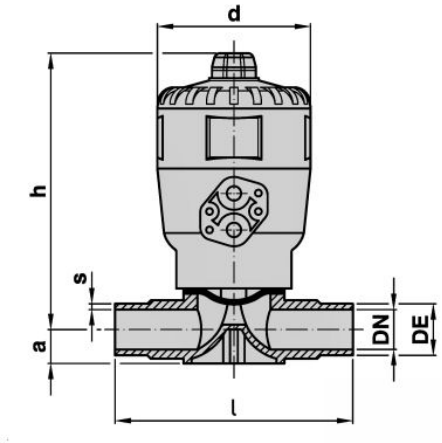
ARTICOLO		PN 10							
DE/DN [mm/mm]	ECTFE EPDM rivestita PTFE SENA 6.303.0_708	s [mm]	l [mm]	h [mm]	d [mm]	a [mm]	MOP [bar]	Peso [Kg]	Conf. [Pz/Pc]
20/15	6.303.0015.708	1,9	133	170	101	16,5	10	1,70	1
25/20	6.303.0020.708	1,9	144	170	101	16,5	10	1,70	1
32/25	6.303.0025.708	2,4	154	175	101	20,5	10	1,90	1
40/32	6.303.0032.708	2,4	193	273	153	25,5	10	4,04	70
50/40	6.303.0040.708	3,0	194	273	153	32	10	4,20	1
63/50	6.303.0050.708	3,0	224	277	153	38,5	10	4,65	1

ECTFE
Tubazioni, valvole ed accessori
Valvole a membrana con attuatore pneumatico e indicatore visivo, terminali lisci



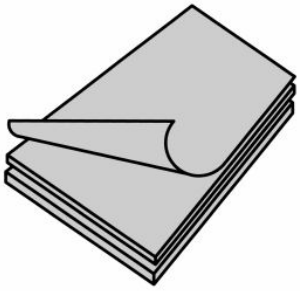
ARTICOLO		PN 10							
DE/DN [mm/mm]	ECTFE EPDM rivestita PTFE SENC 6.303.1_708	s [mm]	l [mm]	h [mm]	d [mm]	a [mm]	MOP [bar]	Peso [Kg]	Conf. [Pz/Pc]
20/15	6.303.1015.708	1,9	133	170	101	16,5	10	1,45	1
25/20	6.303.1020.708	1,9	144	170	101	16,5	10	1,48	1
32/25	6.303.1025.708	2,4	154	175	101	20,5	10	1,87	1
40/32	6.303.1032.708	2,4	193	273	153	32,0	10	5,56	70
50/40	6.303.1040.708	3,0	194	273	153	32	10	6,35	1
63/50	6.303.1050.708	3,0	224	277	153	38,5	10	6,34	1

ECTFE
Tubazioni, valvole ed accessori
Valvole a membrana con attuatore pneumatico e indicatore visivo, terminali lisci



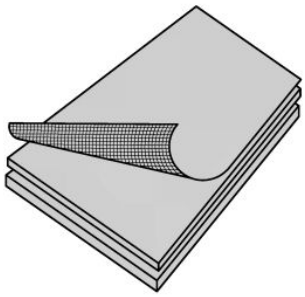
ARTICOLO		PN 10							
DE/DN [mm/mm]	ECTFE EPDM rivestita PTFE DOEF 6.303.2_708	s [mm]	l [mm]	h [mm]	d [mm]	a [mm]	MOP [bar]	Peso [Kg]	Conf. [Pz/Pc]
20/15	6.303.2015.708	1,9	133	170	101	16,5	10	2,10	1
25/20	6.303.2020.708	1,9	144	170	101	16,5	10	0,94	1
32/25	6.303.2025.708	2,4	154	175	101	20,5	10	2,40	1
40/32	6.303.2032.708	2,4	193	273	153	25,5	10	4,06	70
50/40	6.303.2040.708	3,0	194	273	153	32	10	6,50	1
63/50	6.303.2050.708	3,0	224	277	153	38,5	10	6,80	1

ECTFE
Semilavorati
Lastre estruse



ARTICOLO		DIMENSIONI / SIZES		
Spessore [mm]	ECTFE 6.720.00_	Formato [mm]	Peso [Kg]	Conf. [Pz/Pc]
2,3	6.720.0002	1500X3000	17,50	1
3,0	6.720.0003	1500X3000	22,80	1

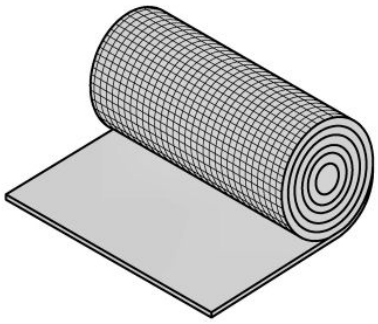
ECTFE
Semilavorati
Lastre estruse con aggancio



ARTICOLO		DIMENSIONI / SIZES		
Spessore [mm]	ECTFE con tessuto in fibra di vetro 6.723.2_	Formato [mm]	Peso [Kg]	Conf. [Pz/Pc]
2,3	6.723.2002	1500x3000	20,92	1
3,0	6.723.2003	1500x3000	26,33	1

ARTICOLO		DIMENSIONI / SIZES		
Spessore [mm]	ECTFE con aggancio sintetico 6.723.5_	Formato [mm]	Peso [Kg]	Conf. [Pz/Pc]
2,3	6.723.5002	1500x3000	20,30	1
3,0	6.723.5003	1500x3000	25,11	1

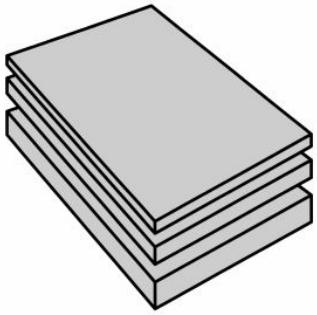
ECTFE
Semilavorati
Rotoli di lastre estruse con aggancio



ARTICOLO		SIZES		
Spessore [mm]	ECTFE con tessuto in fibra di vetro 6.715.2_7	Formato [mm]	Peso [Kg]	Conf. [Pz/Pc]
2,3	6.715.2152.7	1500x15000	104,62	1
3,0	6.715.2153.7	1500x15000	131,62	1

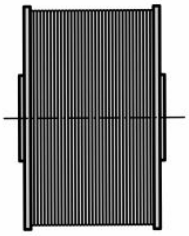
ARTICOLO		SIZES		
Spessore [mm]	ECTFE con aggancio sintetico 6.715.5_7	Formato [mm]	Peso [Kg]	Conf. [Pz/Pc]
2,3	6.715.5152.7	1500x15000	104,63	1
3,0	6.715.5153.7	1500x15000	125,55	1

ECTFE
Semilavorati
Lastre pressate



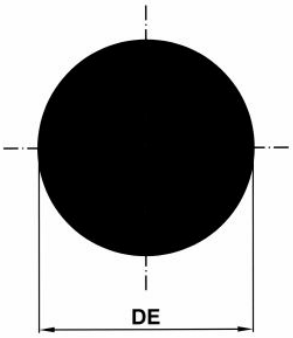
ARTICOLO		SIZES		
Spessore [mm]	ECTFE 6.740_	Formato [mm]	Peso [Kg]	Conf. [Pz/Pc]
10	6.740.0010	1000x2000	37,20	1
12	6.740.0012	1000x2000	44,00	1
15	6.740.0015	1000x2000	54,10	1
20	6.740.0020	1000x2000	71,00	1
25	6.740.0025	1000x2000	88,00	1
30	6.740.0030	1000x2000	106,60	1
40	6.740.0040	1000x2000	142,00	1

ECTFE
Semilavorati
Filo di saldatura



ARTICOLO		SIZES			
DE [mm]	ECTFE In bobina 6.795_	Descrizione	Lunghezza [mt]	Peso [Kg]	Conf. [Pz/Pc]
3,0	6.795.0003	Filo di saldatura diametro 3 mm	140	2,00	2
3,5	6.795.0035	Filo di saldatura diametro 3,5 mm	112	2,00	2
4,0	6.795.0004	Filo di saldatura diametro 4 mm	81	2,00	2

ECTFE
Semilavorati
Tondi pieni



ARTICOLO		SIZES				
DE [mm]	ECTFE 6.770_	Tolleranza max [mm]	Tolleranza min [mm]	Lunghezza [mt]	Peso [Kg/mt]	Conf. [Pz/Pc]
20	6.770.0020	+1,0	+0,2	1000	0,56	1
25	6.770.0025	+1,1	+0,2	1000	0,87	1
30	6.770.0030	+1,2	+0,2	1000	1,25	1
40	6.770.0040	+1,5	+0,3	1000	2,21	1
50	6.770.0050	+2,0	+0,3	1000	3,46	1
65	6.770.0065	+2,3	+0,2	1000	5,82	1
80	6.770.0080	+2,5	+0,4	1000	8,83	30
100	6.770.0100	+3,0	+0,6	1000	13,82	30