

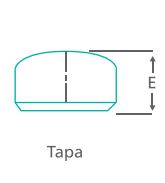
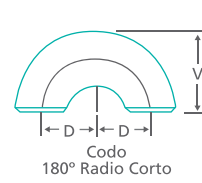
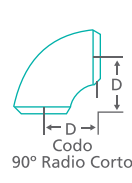
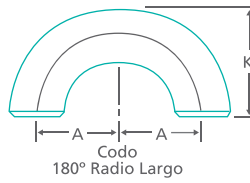
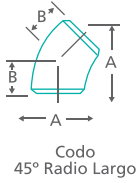
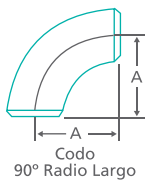
TUBO DE LINEA

DIAMETRO			CARACTERISTICAS	CEDULA											
NOMINAL		REAL		20	30	STD/40S	40	60	XS/80S	80	100	120	140	160	XXS
in	mm	mm													
1/4	8	13.7	Espesor de Pared			2.24	2.24		3.02	3.02					
			Peso Métrico			0.63	0.63		0.80	0.80					
3/8	10	17.1	Espesor de Pared			2.31	2.31		3.20	3.20					
			Peso Métrico			0.84	0.34		1.10	1.10					
1/2	15	21.3	Espesor de Pared			2.77	2.77		3.73	3.73				4.78	7.47
			Peso Métrico			1.27	1.27		1.62	1.62				1.95	2.55
3/4	20	26.7	Espesor de Pared			2.87	2.87		3.91	3.91				5.56	7.82
			Peso Métrico			1.69	1.69		2.20	2.20				2.90	3.64
1	25	33.4	Espesor de Pared			3.38	3.38		4.55	4.55				6.35	9.09
			Peso Métrico			2.50	2.50		3.24	3.24				4.24	5.45
1 1/4	32	42.2	Espesor de Pared			3.56	3.56		4.85	4.85				6.35	9.70
			Peso Métrico			3.39	3.39		4.47	4.47				5.61	7.77
1 1/2	40	48.3	Espesor de Pared			3.68	3.68		5.08	5.08				7.14	10.15
			Peso Métrico			4.05	4.05		5.41	5.41				7.25	9.56
2	50	60.3	Espesor de Pared			3.91	3.91		5.54	5.54				8.74	
			Peso Métrico			5.44	5.44		7.48	7.48				11.11	
2 1/2	65	73.0	Espesor de Pared			5.16	5.16		7.01	7.01				9.53	
			Peso Métrico			8.63	8.63		11.41	11.41				14.92	
3	80	88.9	Espesor de Pared			5.49	5.49		7.62	7.62				11.13	15.24
			Peso Métrico			11.29	11.29		15.27	15.27				21.35	27.68
3 1/2	90	101.6	Espesor de Pared			5.74	5.74		8.08	8.08					
			Peso Métrico			13.57	13.57		18.63	18.63					
4	100	114.3	Espesor de Pared			6.02	6.02		8.56	8.56		11.13		13.49	17.12
			Peso Métrico			16.07	16.07		22.32	22.32		28.32		33.54	41.03
5	125	141.3	Espesor de Pared			6.55	6.55		9.53	9.53		12.70		15.88	19.05
			Peso Métrico			21.77	21.77		30.97	30.97		40.28		49.11	57.43
6	150	168.3	Espesor de Pared			7.11	7.11		10.97	10.97		14.27		18.26	21.95
			Peso Métrico			28.56	28.56		42.56	42.56		54.20		67.56	79.22
8	200	219.1	Espesor de Pared	6.35	7.04	8.18	8.18	10.31	12.70	12.70	15.09	18.26	20.62	23.01	22.23
			Peso Métrico	33.31	36.81	42.55	42.55	53.08	64.64	64.64	75.92	90.44	100.92	111.27	107.92
10	250	273.1	Espesor de Pared	6.35	7.80	9.27	9.27	12.70	12.70	15.09	18.26	21.44	25.40	28.58	25.40
			Peso Métrico	41.77	51.03	60.31	60.31	81.55	81.55	96.01	114.75	103.06	155.15	172.33	155.15
12	300	323.9	Espesor de Pared	6.35	8.38	9.53	10.31	14.27	12.70	17.48	21.44	25.40	28.58	32.32	25.40
			Peso Métrico	49.73	65.20	73.88	79.73	108.96	97.46	132.08	159.91	186.75	208.14	238.76	186.97
14	350	355.6	Espesor de Pared	7.92	9.53	9.53	11.13	15.09	12.70	19.05	23.83	27.79	31.75		
			Peso Métrico	67.90	81.33	81.33	94.55	126.71	107.39	158.10	194.96	224.65	253.56		
16	400	406.4	Espesor de Pared		9.53	9.53	12.70	16.66*	12.70	21.44*	26.19*				
			Peso Métrico		93.27	93.27	123.30	160.12	123.30	203.53	245.56				
18	450	457.2	Espesor de Pared		11.13	9.53	14.27	19.05*	12.70	23.83*					
			Peso Métrico		122.38	105.16	155.80	205.74	139.15	254.55					
20	500	508.0	Espesor de Pared		9.35	12.70	9.63	15.09	20.62*	12.70					
			Peso Métrico		117.15	115.12	117.15	183.42	247.83	155.12					

* Para estos espesores es necesario hacer una consulta técnica previa a la fabricación. NOTA: Esta información es sólo para referencia

CENTROS DE ATENCION

México **Monterrey**
+52 55 5282 9919 tel +52 81 8305 9611 tel



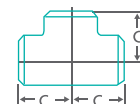
CONEXIONES

DIAMETRO		ESPESOR DE PARED												DIMENSIONES						
		PARA GAS	CEDULAS																	
NOMINAL EXTERIOR			20	30	Std	40	60	X-Fuerte	80	100	120	140	160	XX-Fuerte	A	B	K	D	V	E
1/2	0.840	0.083			0.109	0.109		0.147	0.147				0.188	0.294	1 1/2	6/8	1 7/8			1
3/4	1.050	0.083			0.113	0.113		0.154	0.154				0.219	0.308	1 1/8	7/16	1 11/16			1
1	1.315	0.109			0.133	0.133		0.179	0.179				0.250	0.358	1 1/2	7/8	2 3/16	1	1 5/8	1 1/2
1 1/4	1.660	0.109			0.140	0.140		0.191	0.191				0.250	0.382	1 7/8	1	2 3/4	1 1/4	2 1/16	2 1/16
1 1/2	1.900	0.109			0.145	0.145		0.200	0.200				0.281	0.400	2 1/2	1 1/8	3 1/4	1 1/2	2 7/16	2 7/16
2	2.375	0.109			0.154	0.154		0.218	0.218				0.344	0.436	3	1 3/8	4 3/16	2	3 3/16	1 1/2
2 1/2	2.875	0.120			0.203	0.203		0.276	0.276				0.375	0.552	3 3/4	1 3/4	5 3/16	2 1/2	3 15/16	1 1/2
3	3.500	0.120			0.216	0.216		0.300	0.300				0.438	0.600	4 1/2	2	6 1/4	3	4 3/4	2
3 1/2	4.000	0.120			0.226	0.226		0.318	0.318					0.636	5 1/4	2 1/4	7 1/4	3 1/2	5 1/2	2 1/2
4	4.500	0.120			0.237	0.237		0.337	0.337		0.438		0.531	0.674	6	2 1/2	8 1/4	4	6 1/4	2 1/2
5	5.563	0.134			0.258	0.258		0.375	0.375		0.500		0.625	0.750	7 1/2	3 1/8	10 5/16	5	7 3/4	3
6	6.625	0.134			0.280	0.280		0.432	0.432		0.562		0.719	0.864	9	3 3/4	12 5/16	6	9 5/16	3 1/2
8	8.625	0.148	0.250	0.277	0.322	0.322	0.406	0.500	0.500	0.594	0.719	0.812	0.906	0.875	12	5	16 5/16	8	12 15/16	4
10	10.750	0.165	0.250	0.307	0.365	0.365	0.500	0.500	0.594	0.719	0.844	1.000	1.125	1.000	15	6 1/4	20 3/8	10	15 3/8	5
12	12.750	0.180	0.250	0.330	0.375	0.406	0.562	0.500	0.688	0.844	1.000	1.125	1.312	1.000	18	7 1/2	24 3/8	12	18 3/8	6
14	14.000	0.250	0.312	0.375	0.375	0.438	0.596	0.500	0.750	0.938	1.094	1.250	1.406		21	8 3/4	28	14	21	6 1/2
16	16.000	0.250	0.312	0.375	0.375	0.500	0.656	0.500	0.844	1.031	1.219	1.438	1.594		24	10	32	16	24	7

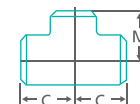
DIAMETRO NOMINAL	REDUCIDO	DIMENSIONES		
		C	M	H
3/4	3/4	1 1/8		
	1/2	1 1/8	1 1/8	1 1/2
1	1	1 1/2		
	3/4	1 3/4	1 1/2	2
	1/2	1 1/2	1 1/2	2
1 1/4	1 1/4	1 7/8		
	1	1 7/8	1 7/8	2
	3/4	1 7/8	1 7/8	2
	1 1/2	1 7/8	1 7/8	2
1 1/2	1 1/2	2 1/4		
	1 1/2	2 1/4	2 1/4	2 1/2
	1	2 1/4	2 1/4	2 1/2
	3/4	2 1/4	2 1/4	2 1/2
	1/2	2 1/4	2 1/4	2 1/2
2	2	2 1/2		
	1 1/2	2 1/2	2 3/8	3
	1 1/4	2 1/2	2 1/4	3
	1	2 1/2	2	3
	3/4	2 1/2	1 3/4	3
2 1/2	3 1/2	3		
	2	3	2 3/4	3 1/2
	1 1/2	3	2 5/8	3 1/2
	1 1/4	3	2 1/2	3 1/2
	1	3	2 1/4	3 1/2
3	3	3 3/8		
	2 1/2	3 3/8	3 1/4	3 1/2
	2	3 3/8	3	3 1/2
	1 1/2	3 3/8	2 7/8	3 1/2
	1 1/4	3 3/8	2 3/4	3 1/2

DIAMETRO NOMINAL	REDUCIDO	DIMENSIONES		
		C	M	H
3 1/2	3 1/2	3 1/4		
	3	3 1/4	3 5/8	4
	3 1/2	3 1/4	3 1/2	4
	2	3 1/4	3 1/4	4
	3 1/2	3 1/4	3 1/8	4
4	4	4 1/8		
	3 1/2	4 1/8	4	4
	3	4 1/8	3 7/8	4
	2 1/2	4 1/8	3 3/4	4
	2	4 1/8	3 1/2	4
	1 1/2	4 1/8	3 3/8	4
5	5	4 7/8		
	4	4 7/8	4 5/8	5
	3 1/2	4 7/8	4 1/2	5
	3	4 7/8	4 3/8	5
	2 1/2	4 7/8	4 1/4	5
	2	4 7/8	4 1/8	5
6	6	5 5/8		
	5	5 5/8	5 3/8	5 1/2
	4	5 5/8	5 1/8	5 1/2
	3 1/2	5 5/8	5	5 1/2
	3	5 5/8	4 7/8	5 1/2
	2 1/2	5 5/8	4 3/4	5 1/2
8	8	7		
	6	7	6 5/8	6
	5	7	6 3/8	6
	4	7	6 1/8	6
	3 1/2	7	6	6

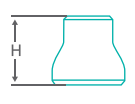
DIAMETRO NOMINAL	REDUCIDO	DIMENSIONES		
		C	M	H
10	10	8 1/2		
	8	8 1/2	8	7
	6	8 1/2	7 5/8	7
	5	8 1/2	7 1/2	7
	4	8 1/2	7 1/4	7
12	12	10		
	10	10	9 1/2	8
	8	10	9	8
	6	10	8 5/8	8
	5	10	8 1/2	8
14	14	11		
	12	11	10 5/8	13
	10	11	10 1/8	13
	8	11	9 3/4	13
	6	11	9 3/8	1
16	16	12		
	14	12	12	14
	12	12	11 5/8	14
	10	12	11 1/8	14
	8	12	10 3/4	14
	6	12	10 3/8	14



"Recta"



"Reducida"


Reducción
Concéntrica

NOTA: Todos los valores se expresan en pulgadas