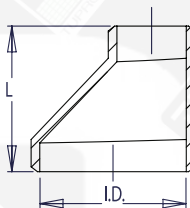
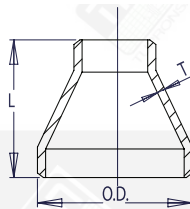


# REDUCCIÓN CONCÉNTRICA Y EXCÉNTRICA

## CÉDULA STD



1. Cumple con ASME B16.9 y ASTM A234 WPB.
2. Todas las medidas están expresadas en milímetros.
3. Todos los pesos están expresados en kilogramos y son aproximados.

❖ Cumple con B16.9.

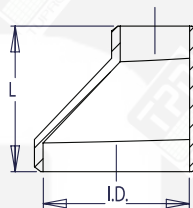
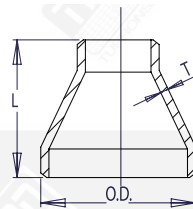
Tamaño del tubo NPS	DIÁMETRO GRANDE			DIÁMETRO PEQUEÑO			Largo L	Nro. de cédula del tubo	Peso aprox. en kilogramos
	Diámetro exterior O.D.	Diámetro interior I.D.	Espesor de la pared T	Diámetro exterior O.D.	Diámetro interior I.D.	Espesor de la pared T			
¾ x ½	26.7	20.96	2.87	21.3	15.76	2.77	38	40	0.10
1 x ¾	33.4	26.64	3.38	26.7	20.96	2.87	51	40	0.16
1 x ½	33.4	26.64	3.38	21.3	15.76	2.77	51	40	0.16
1 ¼ x 1	42.2	35.08	3.56	33.4	26.64	3.38	51	40	0.22
1 ¼ x ¾	42.2	35.08	3.56	26.7	20.96	2.87	51	40	0.19
1 ¼ x ½	42.2	35.08	3.56	21.3	15.76	2.77	51	40	0.19
1 ½ x 1 ¼	48.3	40.94	3.68	42.2	35.08	3.56	64	40	0.29
1 ½ x 1	48.3	40.94	3.68	33.4	26.64	3.38	64	40	0.26
1 ½ x ¾	48.3	40.94	3.68	26.7	20.96	2.87	64	40	0.25
1 ½ x ½	48.3	40.94	3.68	21.3	15.76	2.77	64	40	0.25
2 x 1 ½	60.3	52.48	3.91	48.3	40.94	3.68	76	40	0.43
2 x 1 ¼	60.3	52.48	3.91	42.2	35.08	3.56	76	40	0.40
2 x 1	60.3	52.48	3.91	33.4	26.64	3.38	76	40	0.37
2 x ¾	60.3	52.48	3.91	26.7	20.96	2.87	76	40	0.34
2 ½ x 2	73.0	62.68	5.16	60.3	52.48	3.91	89	40	0.73
2 ½ x 1 ½	73.0	62.68	5.16	48.3	40.94	3.68	89	40	0.68
2 ½ x 1 ¼	73.0	62.68	5.16	42.2	35.08	3.56	89	40	0.64
2 ½ x 1	73.0	62.68	5.16	33.4	26.64	3.38	89	40	0.59
3 x 2 ½	88.9	77.92	5.49	73.0	62.68	5.16	89	40	1.00
3 x 2	88.9	77.92	5.49	60.3	52.48	3.91	89	40	0.91
3 x 1 ½	88.9	77.92	5.49	48.3	40.94	3.68	89	40	0.86
3 x 1 ¼	88.9	77.92	5.49	42.2	35.08	3.56	89	40	0.82
❖ 3 x 1	88.9	77.92	5.49	33.4	26.64	3.38	89	40	0.77
3 ½ x 3	101.6	90.12	5.74	88.9	77.92	5.49	102	40	1.27
3 ½ x 2 ½	101.6	90.12	5.74	73.0	62.68	5.16	102	40	1.22
3 ½ x 2	101.6	90.12	5.74	60.3	52.48	3.91	102	40	1.18
3 ½ x 1 ½	101.6	90.12	5.74	48.3	40.94	3.68	102	40	1.18
3 ½ x 1 ¼	101.6	90.12	5.74	42.2	35.08	3.56	102	40	1.13
4 x 3 ½	114.3	102.26	6.02	101.6	90.12	5.74	102	40	1.59
4 x 3	114.3	102.26	6.02	88.9	77.92	5.49	102	40	1.50
4 x 2 ½	114.3	102.26	6.02	73.0	62.68	5.16	102	40	1.45
4 x 2	114.3	102.26	6.02	60.3	52.48	3.91	102	40	1.41
4 x 1 ½	114.3	102.26	6.02	48.3	40.94	3.68	102	40	1.36

# REDUCCIÓN CONCÉNTRICA Y EXCÉNTRICA

Tamaño del tubo	DIÁMETRO GRANDE			DIÁMETRO PEQUEÑO			Largo	Nro. de cédula del tubo	Peso aprox. en kilogramos
	Diámetro exterior	Diámetro interior	Espesor de la pared	Diámetro exterior	Diámetro interior	Espesor de la pared			
NPS	O.D.	I.D.	T	O.D.	I.D.	T	L		
❖ 4 x 1 ¼	114.3	102.26	6.02	42.16	35.052	3.556	102	40	1.36
❖ 4 x 1	114.3	102.26	6.02	33.4	26.64	3.38	102	40	1.27
5 x 4	141.3	128.20	6.55	114.3	102.26	6.02	127	40	2.49
5 x 3 ½	141.3	128.20	6.55	101.6	90.12	5.74	127	40	2.40
5 x 3	141.3	128.20	6.55	88.9	77.92	5.49	127	40	2.31
5 x 2 ½	141.3	128.20	6.55	73.0	62.68	5.16	127	40	2.18
5 x 2	141.3	128.20	6.55	60.3	52.48	3.91	127	40	2.13
6 x 5	168.3	154.08	7.11	141.3	128.20	6.55	140	40	3.45
6 x 4	168.3	154.08	7.11	114.3	102.26	6.02	140	40	3.36
6 x 3 ½	168.3	154.08	7.11	101.6	90.12	5.74	140	40	3.22
6 x 3	168.3	154.08	7.11	88.9	77.92	5.49	140	40	3.13
6 x 2 ½	168.3	154.08	7.11	73.0	62.68	5.16	140	40	2.99
❖ 6 x 2	168.3	154.08	7.11	60.3	52.48	3.91	140	40	2.95
8 x 6	219.1	202.74	8.18	168.3	154.08	7.11	152	40	5.58
8 x 5	219.1	202.74	8.18	141.3	128.20	6.55	152	40	5.22
8 x 4	219.1	202.74	8.18	114.3	102.26	6.02	152	40	4.90
8 x 3 ½	219.1	202.74	8.18	101.6	90.12	5.74	152	40	4.81
❖ 8 x 3	219.1	202.74	8.18	88.9	77.92	5.49	152	40	4.45
10 x 8	273.0	254.46	9.27	219.1	202.74	8.18	178	40	10.02
10 x 6	273.0	254.46	9.27	168.3	154.08	7.11	178	40	9.39
10 x 5	273.0	254.46	9.27	141.3	128.20	6.55	178	40	8.85
10 x 4	273.0	254.46	9.27	114.3	102.26	6.02	178	40	8.35
12 x 10	323.8	304.74	9.53	273.0	254.46	9.27	203	*	14.70
12 x 8	323.8	304.74	9.53	219.1	202.74	8.18	203	*	13.83
12 x 6	323.8	304.74	9.53	168.3	154.08	7.11	203	*	13.38
12 x 5	323.8	304.74	9.53	141.3	128.20	6.55	203	*	12.61
❖ 12 x 4	323.8	304.74	9.53	114.3	102.26	6.02	203	*	11.88
14 x 12	355.6	336.54	9.53	323.8	304.74	9.53	330	*	28.62
14 x 10	355.6	336.54	9.53	273.0	254.46	9.27	330	*	27.85
14 x 8	355.6	336.54	9.53	219.1	202.74	8.18	330	*	27.22
14 x 6	355.6	336.54	9.53	168.3	154.08	7.11	330	*	26.85
16 x 14	406.4	387.34	9.53	355.6	336.54	9.53	356	*	34.20
16 x 12	406.4	387.34	9.53	323.8	304.74	9.53	356	*	32.98
16 x 10	406.4	387.34	9.53	273.0	254.46	9.27	356	*	32.25
16 x 8	406.4	387.34	9.53	219.1	202.74	8.18	356	*	31.48
❖ 16 x 6	406.4	387.34	9.53	168.3	154.08	7.11	356	*	30.57
18 x 16	457.0	437.94	9.53	406.4	387.34	9.53	381	*	39.60
18 x 14	457.0	437.94	9.53	355.6	336.54	9.53	381	*	39.01
18 x 12	457.0	437.94	9.53	323.8	304.74	9.53	381	*	38.46
18 x 10	457.0	437.94	9.53	273.0	254.46	9.27	381	*	37.97
❖ 18 x 8	457.0	437.94	9.53	219.1	202.74	8.18	381	*	37.08
20 x 18	508.0	488.94	9.53	457.0	437.94	9.53	508	*	55.79
20 x 16	508.0	488.94	9.53	406.4	387.34	9.53	508	*	54.88
20 x 14	508.0	488.94	9.53	355.6	336.54	9.53	508	*	53.98

# REDUCCIÓN CONCÉNTRICA Y EXCÉNTRICA

## CÉDULA STD



1. Cumple con ASME B16.9 y ASTM A234 WPB.
2. Todas las medidas están expresadas en milímetros.
3. Todos los pesos están expresados en kilogramos y son aproximados.

❖ Cumple con B16.9.

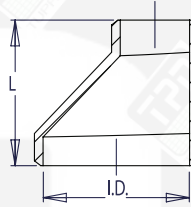
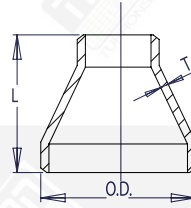
Tamaño del tubo NPS	DIÁMETRO GRANDE			DIÁMETRO PEQUEÑO			Largo L	Nro. de cédula del tubo	Peso aprox. en kilogramos
	Diámetro exterior O.D.	Diámetro interior I.D.	Espesor de la pared T	Diámetro exterior O.D.	Diámetro interior I.D.	Espesor de la pared T			
20 x 12	508.0	488.94	9.53	323.8	304.74	9.53	508	*	53.52
❖ 20 x 10	508.0	488.94	9.53	273.0	254.46	9.27	508	*	53.07
24 x 20	508.0	488.94	9.53	508.0	488.94	9.53	508	*	70.76
24 x 18	610.0	590.94	9.53	457.0	437.94	9.53	508	*	69.40
24 x 16	610.0	590.94	9.53	406.4	387.34	9.53	508	*	68.04
❖ 24 x 14	610.0	590.94	9.53	355.6	336.54	9.53	508	*	66.68
❖ 24 x 12	610.0	590.94	9.53	323.8	304.74	9.53	508	*	65.32
❖ 24 x 10	610.0	590.94	9.53	273.0	254.46	9.27	508	*	63.96
30 x 24	762.0	742.94	9.53	610.0	590.94	9.53	610	*	142.88
30 x 20	762.0	742.94	9.53	508.0	488.94	9.53	610	*	142.88
❖ 30 x 18	762.0	742.94	9.53	457.0	437.94	9.53	610	*	142.88
36 x 30	914.0	894.94	9.53	762.0	742.94	9.53	610	*	171.91
36 x 24	914.0	894.94	9.53	610.0	590.94	9.53	610	*	171.91
❖ 36 x 20	914.0	894.94	9.53	508.0	488.94	9.53	610	*	171.91
42 x 36	1067.0	1047.94	9.53	914.0	894.94	9.53	610	*	200.94
42 x 30	1067.0	1047.94	9.53	762.0	742.94	9.53	610	*	200.94
❖ 42 x 24	1067.0	1047.94	9.53	610.0	590.94	9.53	610	*	200.94
48 x 42	1219.0	1199.94	9.53	1067.0	1047.94	9.53	711	*	238.13
❖ 48 x 36	1219.0	1199.94	9.53	914.0	894.94	9.53	711	*	238.13
❖ 48 x 30	1219.0	1199.94	9.53	762.0	742.94	9.53	711	*	238.13
❖ 48 x 24	1219.0	1200.15	9.53	609.6	590.55	9.53	711	*	238.13

# REDUCCIÓN CONCÉNTRICA Y EXCÉNTRICA

CÉDULA XS

1. Cumple con ASME B16.9 y ASTM A234 WPB.
2. Todas las medidas están expresadas en milímetros.
3. Todos los pesos están expresados en kilogramos y son aproximados.

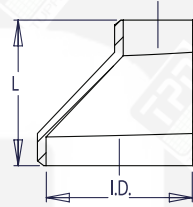
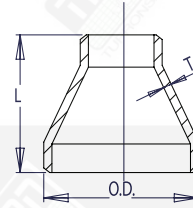
❖ Cumple con B16.9.



Tamaño del tubo NPS	DIÁMETRO GRANDE			DIÁMETRO PEQUEÑO			Largo L	Nro. de cédula del tubo	Peso aprox. en kilogramos
	Diámetro exterior O.D.	Diámetro interior I.D.	Espesor de la pared T	Diámetro exterior O.D.	Diámetro interior I.D.	Espesor de la pared T			
¾ x ½	26.7	18.88	3.91	21.3	13.84	3.73	38	80	0.11
1 x ¾	33.4	24.30	4.55	26.7	18.88	3.91	51	80	0.20
1 x ½	33.4	24.30	4.55	21.3	13.84	3.73	51	80	0.19
1 ¼ x 1	42.2	32.50	4.85	33.4	24.30	4.55	51	80	0.26
1 ¼ x ¾	42.2	32.50	4.85	26.7	18.88	3.91	51	80	0.24
1 ¼ x ½	42.2	32.50	4.85	21.3	13.84	3.73	51	80	0.23
1 ½ x 1 ¼	48.3	38.14	5.08	42.2	32.50	4.85	64	80	0.35
1 ½ x 1	48.3	38.14	5.08	33.4	24.30	4.55	64	80	0.33
1 ½ x ¾	48.3	38.14	5.08	26.7	18.88	3.91	64	80	0.29
1 ½ x ½	48.3	38.14	5.08	21.3	13.84	3.73	64	80	0.29
2 x 1 ½	60.3	49.22	5.54	48.3	38.14	5.08	76	80	0.54
2 x 1 ¼	60.3	49.22	5.54	42.2	32.50	4.85	76	80	0.50
2 x 1	60.3	49.22	5.54	33.4	24.30	4.55	76	80	0.45
2 x ¾	60.3	49.22	5.54	26.7	18.88	3.91	76	80	0.43
2 ½ x 2	73.0	58.98	7.01	60.3	49.22	5.54	89	80	0.95
2 ½ x 1 ½	73.0	58.98	7.01	48.3	38.14	5.08	89	80	0.86
2 ½ x 1 ¼	73.0	58.98	7.01	42.2	32.50	4.85	89	80	0.77
2 ½ x 1	73.0	58.98	7.01	33.4	24.30	4.55	89	80	0.68
3 x 2 ½	88.9	73.66	7.62	73.0	58.98	7.01	89	80	1.27
3 x 2	88.9	73.66	7.62	60.3	49.22	5.54	89	80	1.18
3 x 1 ½	88.9	73.66	7.62	48.3	38.14	5.08	89	80	1.09
3 x 1 ¼	88.9	73.66	7.62	42.2	32.50	4.85	89	80	1.04
❖ 3 x 1	88.9	73.66	7.62	33.4	24.30	4.55	89	80	1.00
3 ½ x 3	101.6	85.44	8.08	88.9	73.66	7.62	102	80	1.68
3 ½ x 2 ½	101.6	85.44	8.08	73.0	58.98	7.01	102	80	1.59
3 ½ x 2	101.6	85.44	8.08	60.3	49.22	5.54	102	80	1.50
3 ½ x 1 ½	101.6	85.44	8.08	48.3	38.14	5.08	102	80	1.45
3 ½ x 1 ¼	101.6	85.44	8.08	42.2	32.50	4.85	102	80	1.45
4 x 3 ½	114.3	97.18	8.56	101.6	85.44	8.08	102	80	2.22
4 x 3	114.3	97.18	8.56	88.9	73.66	7.62	102	80	2.13
4 x 2 ½	114.3	97.18	8.56	73.0	58.98	7.01	102	80	2.09
4 x 2	114.3	97.18	8.56	60.3	49.22	5.54	102	80	1.95
4 x 1 ½	114.3	97.18	8.56	48.3	38.14	5.08	102	80	1.91

# REDUCCIÓN CONCÉNTRICA Y EXCÉNTRICA

## CÉDULA XS



1. Cumple con ASME B16.9 y ASTM A234 WPB.
2. Todas las medidas están expresadas en milímetros.
3. Todos los pesos están expresados en kilogramos y son aproximados.

❖ Cumple con B16.9.

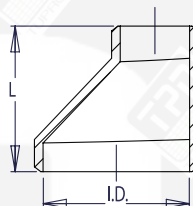
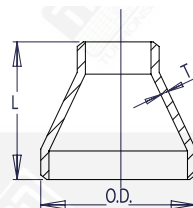
Tamaño del tubo NPS	DIÁMETRO GRANDE			DIÁMETRO PEQUEÑO			Largo L	Nro. de cédula del tubo	Peso aprox. en kilogramos
	Diámetro exterior O.D.	Diámetro interior I.D.	Espesor de la pared T	Diámetro exterior O.D.	Diámetro interior I.D.	Espesor de la pared T			
❖ 4 x 1 ¼	114.3	97.18	8.56	42.2	32.50	4.85	102	80	1.86
❖ 4 x 1	114.3	97.18	8.56	33.4	24.30	4.55	102	80	1.81
5 x 4	141.3	122.24	9.53	114.3	97.18	8.56	127	80	3.40
5 x 3 ½	141.3	122.24	9.53	101.6	85.44	8.08	127	80	3.13
5 x 3	141.3	122.24	9.53	88.9	73.66	7.62	127	80	2.86
5 x 2 ½	141.3	122.24	9.53	73.0	58.98	7.01	127	80	2.77
5 x 2	141.3	122.24	9.53	60.3	49.22	5.54	127	80	2.72
6 x 5	168.3	146.36	10.97	141.3	122.24	9.53	140	80	5.22
6 x 4	168.3	146.36	10.97	114.3	97.18	8.56	140	80	4.85
6 x 3 ½	168.3	146.36	10.97	101.6	85.44	8.08	140	80	4.54
6 x 3	168.3	146.36	10.97	88.9	73.66	7.62	140	80	4.40
6 x 2 ½	168.3	146.36	10.97	73.0	58.98	7.01	140	80	4.13
❖ 6 x 2	168.3	146.36	10.97	60.3	49.22	5.54	140	80	3.90
8 x 6	219.1	193.70	12.70	168.3	146.36	10.97	152	80	8.53
8 x 5	219.1	193.70	12.70	141.3	122.24	9.53	152	80	7.98
8 x 4	219.1	193.70	12.70	114.3	97.18	8.56	152	80	7.71
8 x 3 ½	219.1	193.70	12.70	101.6	85.44	8.08	152	80	7.21
❖ 8 x 3	219.1	193.70	12.70	88.9	73.66	7.62	152	80	6.80
10 x 8	273.0	247.60	12.70	219.1	193.70	12.70	178	*	13.34
10 x 6	273.0	247.60	12.70	168.3	146.36	10.97	178	*	12.84
10 x 5	273.0	247.60	12.70	141.3	122.24	9.53	178	*	12.20
10 x 4	273.0	247.60	12.70	114.3	97.18	8.56	178	*	10.98
12 x 10	323.8	298.40	12.70	273.0	247.60	12.70	203	*	18.82
12 x 8	323.8	298.40	12.70	219.1	193.70	12.70	203	*	17.51
12 x 6	323.8	298.40	12.70	168.3	146.36	10.97	203	*	16.96
12 x 5	323.8	298.40	12.70	141.3	122.24	9.53	203	*	16.47
❖ 12 x 4	323.8	298.40	12.70	114.3	97.18	8.56	203	*	15.74
14 x 12	355.6	330.20	12.70	323.8	298.40	12.70	330	*	36.74
14 x 10	355.6	330.20	12.70	273.0	247.60	12.70	330	*	34.79
14 x 8	355.6	330.20	12.70	219.1	193.70	12.70	330	*	33.84
14 x 6	355.6	330.20	12.70	168.3	146.36	10.97	330	*	32.79
16 x 14	406.40	381.000	12.700	355.6	330.20	12.70	356	*	44.45

## REDUCCIÓN CONCÉNTRICA Y EXCÉNTRICA

Tamaño del tubo	DIÁMETRO GRANDE			DIÁMETRO PEQUEÑO			Largo	Nro. de cédula del tubo	Peso aprox. en kilogramos
	Diámetro exterior	Diámetro interior	Espesor de la pared	Diámetro exterior	Diámetro interior	Espesor de la pared			
NPS	O.D.	I.D.	T	O.D.	I.D.	T	L		
16 x 12	406.4	381.00	12.70	323.8	298.40	12.70	356	*	43.45
16 x 10	406.4	381.00	12.70	273.0	247.60	12.70	356	*	42.32
16 x 8	406.4	381.00	12.70	219.1	193.70	12.70	356	*	41.32
❖ 16 x 6	406.4	381.00	12.70	168.3	146.36	10.97	356	*	40.73
18 x 16	457.0	431.60	12.70	406.4	381.00	12.70	381	*	53.52
18 x 14	457.0	431.60	12.70	355.6	330.20	12.70	381	*	53.07
18 x 12	457.0	431.60	12.70	323.8	298.40	12.70	381	*	52.16
18 x 10	457.0	431.60	12.70	273.0	247.60	12.70	381	*	51.26
❖ 18 x 8	457.0	431.60	12.70	219.1	193.70	12.70	381	*	45.36
20 x 18	508.0	482.60	12.70	457.0	431.60	12.70	508	*	73.48
20 x 16	508.0	482.60	12.70	406.4	381.00	12.70	508	*	72.12
20 x 14	508.0	482.60	12.70	355.6	330.20	12.70	508	*	71.21
20 x 12	508.0	482.60	12.70	323.8	298.40	12.70	508	*	70.31
❖ 20 x 10	508.0	482.60	12.70	273.0	247.60	12.70	508	*	68.95
24 x 20	610.0	584.60	12.70	508.0	482.60	12.70	508	*	91.17
24 x 18	610.0	584.60	12.70	457.0	431.60	12.70	508	*	89.36
24 x 16	610.0	584.60	12.70	406.4	381.00	12.70	508	*	88.00
❖ 24 x 14	610.0	584.60	12.70	355.6	330.20	12.70	508	*	86.18
❖ 24 x 12	610.0	584.60	12.70	323.8	298.40	12.70	508	*	85.27
❖ 24 x 10	610.0	584.60	12.70	273.0	247.60	12.70	508	*	84.37
30 x 24	762.0	736.60	12.70	610.0	584.60	12.70	610	*	142.88
30 x 20	762.0	736.60	12.70	508.0	482.60	12.70	610	*	142.88
❖ 30 x 18	762.0	736.60	12.70	457.0	431.60	12.70	610	*	142.88
36 x 30	914.0	888.60	12.70	762.0	736.60	12.70	610	*	171.91
36 x 24	914.0	888.60	12.70	610.0	584.60	12.70	610	*	171.91
❖ 36 x 20	914.0	888.60	12.70	508.0	482.60	12.70	610	*	171.91
42 x 36	1067.0	1041.60	12.70	914.0	888.60	12.70	610	*	200.94
42 x 30	1067.0	1041.60	12.70	762.0	736.60	12.70	610	*	200.94
❖ 42 x 24	1067.0	1041.60	12.70	610.0	584.60	12.70	610	*	200.94
48 x 42	1219.0	1193.60	12.70	1067.0	1041.60	12.70	711	*	238.13
❖ 48 x 36	1219.0	1193.60	12.70	914.0	888.60	12.70	711	*	238.13
❖ 48 x 30	1219.0	1193.60	12.70	762.0	736.60	12.70	711	*	238.13
❖ 48 x 24	1219.0	1193.60	12.70	610.0	584.60	12.70	711	*	238.13

# REDUCCIÓN CONCÉNTRICA Y EXCÉNTRICA

## CÉDULA 40



1. Cumple con ASME B16.9 y ASTM A234 WPB.
2. Todas las medidas están expresadas en milímetros.
3. Todos los pesos están expresados en kilogramos y son aproximados.

❖ Cumple con B16.9.

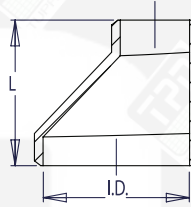
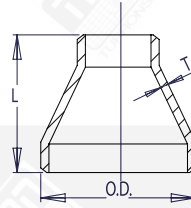
Tamaño del tubo NPS	DIÁMETRO GRANDE			DIÁMETRO PEQUEÑO			Largo L	Nro. de cédula del tubo	Peso aprox. en kilogramos
	Diámetro exterior O.D.	Diámetro interior I.D.	Espesor de la pared T	Diámetro exterior O.D.	Diámetro interior I.D.	Espesor de la pared T			
<b>PARA CONOCER LAS ESPECIFICACIONES DE LAS DIMENSIONES DE NPS ½ A 10 CONSULTE CÉDULA STD</b>									
12 x 10	323.8	303.18	10.31	273.0	254.46	9.27	203	40	16.24
12 x 8	323.8	303.18	10.31	219.1	202.74	8.18	203	40	16.24
12 x 6	323.8	303.18	10.31	168.3	154.08	7.11	203	40	16.24
12 x 5	323.8	303.18	10.31	141.3	128.20	6.55	203	40	16.24
❖ 12 x 4	323.8	303.18	10.31	114.3	102.26	6.02	203	40	16.24
14 x 12	355.6	333.34	11.13	323.8	303.18	10.31	330	40	31.12
14 x 10	355.6	333.34	11.13	273.0	254.46	9.27	330	40	31.12
14 x 8	355.6	333.34	11.13	219.1	202.74	8.18	330	40	31.12
14 x 6	355.6	333.34	11.13	168.3	154.08	7.11	330	40	31.12
16 x 14	406.4	381.00	12.70	355.6	333.34	11.13	356	40	43.77
16 x 12	406.4	381.00	12.70	323.8	303.18	10.31	356	40	43.77
16 x 10	406.4	381.00	12.70	273.0	254.46	9.27	356	40	43.77
16 x 8	406.4	381.00	12.70	219.1	202.74	8.18	356	40	43.77
❖ 16 x 6	406.4	381.00	12.70	168.3	154.08	7.11	356	40	43.77
18 x 16	457.0	428.46	14.27	406.4	381.00	12.70	381	40	59.42
18 x 14	457.0	428.46	14.27	355.6	333.34	11.13	381	40	59.42
18 x 12	457.0	428.46	14.27	323.8	303.18	10.31	381	40	59.42
18 x 10	457.0	428.46	14.27	273.0	254.46	9.27	381	40	59.42
❖ 18 x 8	457.0	428.46	14.27	219.1	202.74	8.18	381	40	59.42
20 x 18	508.0	477.82	15.09	457.0	428.46	14.27	508	40	92.99
20 x 16	508.0	477.82	15.09	406.4	381.00	12.70	508	40	92.99
20 x 14	508.0	477.82	15.09	355.6	333.34	11.13	508	40	92.99
20 x 12	508.0	477.82	15.09	323.8	303.18	10.31	508	40	92.99
❖ 20 x 10	508.0	477.82	15.09	273.0	254.46	9.27	508	40	92.99
❖ 20 x 8	508.0	477.82	15.09	219.1	202.74	8.18	508	40	92.99
24 x 20	610.0	575.04	17.48	508.0	477.82	15.09	508	40	129.27
24 x 18	610.0	575.04	17.48	457.0	428.46	14.27	508	40	129.27
24 x 16	610.0	575.04	17.48	406.4	381.00	12.70	508	40	129.27
❖ 24 x 14	610.0	575.04	17.48	355.6	333.34	11.13	508	40	129.27
❖ 24 x 12	610.0	575.04	17.48	323.8	303.18	10.31	508	40	129.27
❖ 24 x 10	610.0	575.04	17.48	273.0	254.46	9.27	508	40	129.27

# REDUCCIÓN CONCÉNTRICA Y EXCÉNTRICA

**CÉDULA 80**

1. Cumple con ASME B16.9 y ASTM A234 WPB.
2. Todas las medidas están expresadas en milímetros.
3. Todos los pesos están expresados en kilogramos y son aproximados.

❖ Cumple con B16.9.

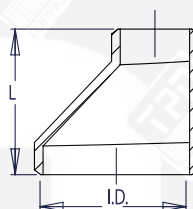
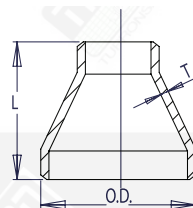


Tamaño del tubo	DIÁMETRO GRANDE			DIÁMETRO PEQUEÑO			Largo	Nro. de cédula del tubo	Peso aprox. en kilogramos
	Diámetro exterior	Diámetro interior	Espesor de la pared	Diámetro exterior	Diámetro interior	Espesor de la pared			
NPS	O.D.	I.D.	T	O.D.	I.D.	T	L		
<b>PARA CONOCER LAS ESPECIFICACIONES DE LAS DIMENSIONES DE NPS ½ A 8 CONSULTE CÉDULA XS</b>									
10 x 8	273.0	242.82	15.09	219.1	193.70	12.70	178	80	17.01
10 x 6	273.0	242.82	15.09	168.3	146.36	10.97	178	80	17.01
10 x 5	273.0	242.82	15.09	141.3	122.24	9.53	178	80	17.01
10 x 4	273.0	242.82	15.09	114.3	97.18	8.56	178	80	17.01
12 x 10	323.8	288.84	17.48	273.0	242.82	15.09	203	80	26.76
12 x 8	323.8	288.84	17.48	219.1	193.70	12.70	203	80	26.76
12 x 6	323.8	288.84	17.48	168.3	146.36	10.97	203	80	26.76
12 x 5	323.8	288.84	17.48	141.3	122.24	9.53	203	80	26.76
❖ 12 x 4	323.8	288.84	17.48	114.3	97.18	8.56	203	80	26.76
14 x 12	355.6	317.50	19.05	323.8	288.84	17.48	330	80	52.16
14 x 10	355.6	317.50	19.05	273.0	242.82	15.09	330	80	52.16
14 x 8	355.6	317.50	19.05	219.1	193.70	12.70	330	80	52.16
14 x 6	355.6	317.50	19.05	168.3	146.36	10.97	330	80	52.16
16 x 14	406.4	363.52	21.44	355.6	317.50	19.05	356	80	72.12
16 x 12	406.4	363.52	21.44	323.8	288.84	17.48	356	80	72.12
16 x 10	406.4	363.52	21.44	273.0	242.82	15.09	356	80	72.12
16 x 8	406.4	363.52	21.44	219.1	193.70	12.70	356	80	72.12
❖ 16 x 6	406.4	363.52	21.44	168.3	146.36	10.97	356	80	72.12
18 x 16	457.0	409.34	23.83	406.4	363.52	21.44	381	80	96.61
18 x 14	457.0	409.34	23.83	355.6	317.50	19.05	381	80	96.61
18 x 12	457.0	409.34	23.83	323.8	288.84	17.48	381	80	96.61
18 x 10	457.0	409.34	23.83	273.0	242.82	15.09	381	80	96.61
❖ 18 x 8	457.0	409.34	23.83	219.1	193.70	12.70	381	80	96.61



# REDUCCIÓN CONCÉNTRICA Y EXCÉNTRICA

## CÉDULA 80



1. Cumple con ASME B16.9 y ASTM A234 WPB.
2. Todas las medidas están expresadas en milímetros.
3. Todos los pesos están expresados en kilogramos y son aproximados.

❖ Cumple con B16.9.

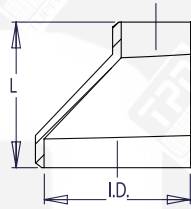
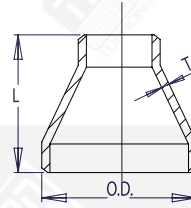
Tamaño del tubo	DIÁMETRO GRANDE			DIÁMETRO PEQUEÑO			Largo	Nro. de cédula del tubo	Peso aprox. en kilogramos
	Diámetro exterior	Diámetro interior	Espesor de la pared	Diámetro exterior	Diámetro interior	Espesor de la pared			
NPS	O.D.	I.D.	T	O.D.	I.D.	T	L		
20 x 18	508.0	455.62	26.19	457.0	409.34	23.83	508	80	157.85
20 x 16	508.0	455.62	26.19	406.4	363.52	21.44	508	80	157.85
20 x 14	508.0	455.62	26.19	355.6	317.50	19.05	508	80	157.85
20 x 12	508.0	455.62	26.19	323.8	288.84	17.48	508	80	157.85
❖ 20 x 10	508.0	455.62	26.19	273.0	242.82	15.09	508	80	157.85
❖ 20 x 8	508.0	455.62	26.19	219.1	193.70	12.70	508	80	157.85
24 x 20	610.0	548.08	30.96	508.0	455.62	26.19	508	80	224.07
24 x 18	610.0	548.08	30.96	457.0	409.34	23.83	508	80	224.07
24 x 16	610.0	548.08	30.96	406.4	363.52	21.44	508	80	224.07
❖ 24 x 14	610.0	548.08	30.96	355.6	317.50	19.05	508	80	224.07
❖ 24 x 12	610.0	548.08	30.96	323.8	288.84	17.48	508	80	224.07
❖ 24 x 10	610.0	548.08	30.96	273.0	242.82	15.09	508	80	224.07

# REDUCCIÓN CONCÉNTRICA Y EXCÉNTRICA

CÉDULA 160

1. Cumple con ASME B16.9 y ASTM A234 WPB.
2. Todas las medidas están expresadas en milímetros.
3. Todos los pesos están expresados en kilogramos y son aproximados.

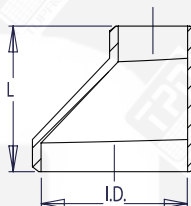
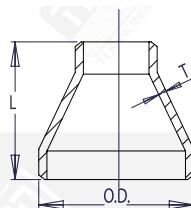
❖ Cumple con B16.9.



Tamaño del tubo NPS	DIÁMETRO GRANDE			DIÁMETRO PEQUEÑO			Largo L	Nro. de cédula del tubo	Peso aprox. en kilogramos
	Diámetro exterior O.D.	Diámetro interior I.D.	Espesor de la pared T	Diámetro exterior O.D.	Diámetro interior I.D.	Espesor de la pared T			
3/4 x 1/2	26.7	15.58	5.56	21.3	11.74	4.78	38	160	0.17
1 x 3/4	33.4	20.70	6.35	26.7	15.58	5.56	51	160	0.20
1 x 1/2	33.4	20.70	6.35	21.3	11.74	4.78	51	160	0.20
1 1/4 x 1	42.2	29.50	6.35	33.4	20.70	6.35	51	160	0.32
1 1/4 x 3/4	42.2	29.50	6.35	26.7	15.58	5.56	51	160	0.32
1 1/4 x 1/2	42.2	29.50	6.35	21.3	11.74	4.78	51	160	0.32
1 1/2 x 1 1/4	48.3	34.02	7.14	42.2	29.50	6.35	64	160	0.41
1 1/2 x 1	48.3	34.02	7.14	33.4	20.70	6.35	64	160	0.41
1 1/2 x 3/4	48.3	34.02	7.14	26.7	15.58	5.56	64	160	0.41
1 1/2 x 1/2	48.3	34.02	7.14	21.3	11.74	4.78	64	160	0.41
2 x 1 1/2	60.3	42.82	8.74	48.3	34.02	7.14	76	160	0.84
2 x 1 1/4	60.3	42.82	8.74	42.2	29.50	6.35	76	160	0.84
2 x 1	60.3	42.82	8.74	33.4	20.70	6.35	76	160	0.84
2 x 3/4	60.3	42.82	8.74	26.7	15.58	5.56	76	160	0.68
2 1/2 x 2	73.0	53.94	9.53	60.3	42.82	8.74	89	160	1.36
2 1/2 x 1 1/2	73.0	53.94	9.53	48.3	34.02	7.14	89	160	1.36
2 1/2 x 1 1/4	73.0	53.94	9.53	42.2	29.50	6.35	89	160	1.27
2 1/2 x 1	73.0	53.94	9.53	33.4	20.70	6.35	89	160	1.27
3 x 2 1/2	88.9	66.64	11.13	73.0	53.94	9.53	89	160	1.81
3 x 2	88.9	66.64	11.13	60.3	42.82	8.74	89	160	1.81
3 x 1 1/2	88.9	66.64	11.13	48.3	34.02	7.14	89	160	1.81
3 x 1 1/4	88.9	66.64	11.13	42.2	29.50	6.35	89	160	1.59
❖ 3 x 1	88.9	66.64	11.13	33.4	20.70	6.35	89	160	1.59
4 x 3	114.3	87.32	13.49	88.9	66.64	11.13	102	160	2.72
4 x 2 1/2	114.3	87.32	13.49	73.0	53.94	9.53	102	160	2.72
4 x 2	114.3	87.32	13.49	60.3	42.82	8.74	102	160	2.27
4 x 1 1/2	114.3	87.32	13.49	48.3	34.02	7.14	102	160	2.27
❖ 4 x 1 1/4	114.3	87.32	13.49	42.2	29.50	6.35	102	160	2.27
❖ 4 x 1	114.3	87.32	13.49	33.4	20.70	6.35	102	160	2.27

# REDUCCIÓN CONCÉNTRICA Y EXCÉNTRICA

## CÉDULA 160



1. Cumple con ASME B16.9 y ASTM A234 WPB.
2. Todas las medidas están expresadas en milímetros.
3. Todos los pesos están expresados en kilogramos y son aproximados.

❖ Cumple con B16.9.

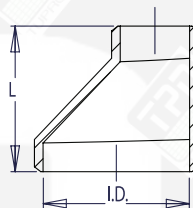
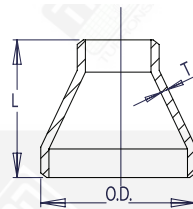
Tamaño del tubo NPS	DIÁMETRO GRANDE			DIÁMETRO PEQUEÑO			Largo L	Nro. de cédula del tubo	Peso aprox. en kilogramos
	Diámetro exterior O.D.	Diámetro interior I.D.	Espesor de la pared T	Diámetro exterior O.D.	Diámetro interior I.D.	Espesor de la pared T			
5 x 4	141.3	109.54	15.88	114.3	87.32	13.49	127	160	6.35
5 x 3	141.3	109.54	15.88	88.9	66.64	11.13	127	160	6.35
5 x 2 ½	141.3	109.54	15.88	73.0	53.94	9.53	127	160	6.35
5 x 2	141.3	109.54	15.88	60.3	42.82	8.74	127	160	6.35
6 x 5	168.3	131.78	18.26	141.3	109.54	15.88	140	160	8.16
6 x 4	168.3	131.78	18.26	114.3	87.32	13.49	140	160	8.16
6 x 3	168.3	131.78	18.26	88.9	66.64	11.13	140	160	7.03
6 x 2 ½	168.3	131.78	18.26	73.0	53.94	9.53	140	160	7.03
❖ 6 x 2	168.3	131.78	18.26	60.3	42.82	8.74	140	160	6.80
8 x 6	219.1	173.08	23.01	168.3	131.78	18.26	152	160	14.29
8 x 5	219.1	173.08	23.01	141.3	109.54	15.88	152	160	12.70
8 x 4	219.1	173.08	23.01	114.3	87.32	13.49	152	160	12.70
❖ 8 x 3	219.1	173.08	23.01	88.9	66.64	11.13	152	160	13.61
10 x 8	273.0	215.84	28.58	219.1	173.08	23.01	178	160	26.31
10 x 6	273.0	215.84	28.58	168.3	131.78	18.26	178	160	26.31
10 x 5	273.0	215.84	28.58	141.3	109.54	15.88	178	160	24.49
10 x 4	273.0	215.84	28.58	114.3	87.32	13.49	178	160	23.59
12 x 10	323.8	257.16	33.32	273.0	215.84	28.58	203	160	43.09
12 x 8	323.8	257.16	33.32	219.1	173.08	23.01	203	160	38.56
12 x 6	323.8	257.16	33.32	168.3	131.78	18.26	203	160	36.29
12 x 5	323.8	257.16	33.32	141.3	109.54	15.88	203	160	36.29
❖ 12 x 4	323.8	257.16	33.32	114.3	87.32	13.49	203	160	36.29
14 x 12	355.6	284.18	35.71	323.8	257.16	33.32	330	160	52.16
14 x 10	355.6	284.18	35.71	273.0	215.84	28.58	330	160	52.16
14 x 8	355.6	284.18	35.71	219.1	173.08	23.01	330	160	72.12
14 x 6	355.6	284.18	35.71	168.3	131.78	18.26	330	160	72.12
16 x 14	406.4	325.42	40.49	355.6	284.18	35.71	356	160	72.12
16 x 12	406.4	325.42	40.49	323.8	257.16	33.32	356	160	72.12
16 x 10	406.4	325.42	40.49	273.0	215.84	28.58	356	160	72.12
16 x 8	406.4	325.42	40.49	219.1	173.08	23.01	356	160	96.61
❖ 16 x 6	406.4	325.42	40.49	168.3	131.78	18.26	356	160	96.61

## REDUCCIÓN CONCÉNTRICA Y EXCÉNTRICA

Tamaño del tubo	DIÁMETRO GRANDE			DIÁMETRO PEQUEÑO			Largo	Nro. de cédula del tubo	Peso aprox. en kilogramos
	Diámetro exterior	Diámetro interior	Espesor de la pared	Diámetro exterior	Diámetro interior	Espesor de la pared			
NPS	O.D.	I.D.	T	O.D.	I.D.	T	L		
18 x 16	457.0	366.52	45.24	406.4	325.42	40.49	381	160	96.61
18 x 14	457.0	366.52	45.24	355.6	284.18	35.71	381	160	96.61
18 x 12	457.0	366.52	45.24	323.8	257.16	33.32	381	160	96.61
18 x 10	457.0	366.52	45.24	273.0	215.84	28.58	381	160	157.85
❖ 18 x 8	457.0	366.52	45.24	219.1	173.08	23.01	381	160	148.32
20 x 18	508.0	407.98	50.01	457.0	366.52	45.24	508	160	157.85
20 x 16	508.0	407.98	50.01	406.4	325.42	40.49	508	160	157.85
20 x 14	508.0	407.98	50.01	355.6	284.18	35.71	508	160	224.07
20 x 12	508.0	407.98	50.01	323.8	257.16	33.32	508	160	224.07
❖ 20 x 10	508.0	407.98	50.01	273.0	215.84	28.58	508	160	224.07
24 x 20	610.0	490.92	59.54	508.0	407.98	50.01	508	160	224.07
24 x 18	610.0	490.92	59.54	457.0	366.52	45.24	508	160	242.67
24 x 16	610.0	490.92	59.54	406.4	325.42	40.49	508	160	242.67
❖ 24 x 14	610.0	490.92	59.54	355.6	284.18	35.71	508	160	242.67
❖ 24 x 12	610.0	490.92	59.54	323.8	257.16	33.32	508	160	242.67
❖ 24 x 10	610.0	490.92	59.54	273.0	215.84	28.58	508	160	242.67

# REDUCCIÓN CONCÉNTRICA Y EXCÉNTRICA

## CÉDULA XXS



1. Cumple con ASME B16.9 y ASTM A234 WPB.
2. Todas las medidas están expresadas en milímetros.
3. Todos los pesos están expresados en kilogramos y son aproximados.

❖ Cumple con B16.9.

Tamaño del tubo NPS	DIÁMETRO GRANDE			DIÁMETRO PEQUEÑO			Largo L	Nro. de cédula del tubo	Peso aprox. en kilogramos
	Diámetro exterior O.D.	Diámetro interior I.D.	Espesor de la pared T	Diámetro exterior O.D.	Diámetro interior I.D.	Espesor de la pared T			
¾ x ½	26.7	11.06	7.82	21.3	6.36	7.47	38.10	*	0.18
1 x ¾	33.4	15.22	9.09	26.7	11.06	7.82	50.80	*	0.23
1 x ½	33.4	15.22	9.09	21.3	6.36	7.47	50.80	*	0.23
1 ¼ x 1	42.2	22.80	9.70	33.4	15.22	9.09	50.80	*	0.34
1 ¼ x ¾	42.2	22.80	9.70	26.7	11.06	7.82	50.80	*	0.34
1 ¼ x ½	42.2	22.80	9.70	21.3	6.36	7.47	50.80	*	0.34
1 ½ x 1 ¼	48.3	28.00	10.15	42.2	22.80	9.70	63.50	*	0.45
1 ½ x 1	48.3	28.00	10.15	33.4	15.22	9.09	63.50	*	0.45
1 ½ x ¾	48.3	28.00	10.15	26.7	11.06	7.82	63.50	*	0.45
1 ½ x ½	48.3	28.00	10.15	21.3	6.36	7.47	63.50	*	0.45
2 x 1 ½	60.3	38.16	11.07	48.3	28.00	10.15	76.20	*	0.91
2 x 1 ¼	60.3	38.16	11.07	42.2	22.80	9.70	76.20	*	0.91
2 x 1	60.3	38.16	11.07	33.4	15.22	9.09	76.20	*	0.91
2 x ¾	60.3	38.16	11.07	26.7	11.06	7.82	76.20	*	0.79
2 ½ x 2	73.0	44.96	14.02	60.3	38.16	11.07	88.90	*	1.81
2 ½ x 1 ½	73.0	44.96	14.02	48.3	28.00	10.15	88.90	*	1.81
2 ½ x 1 ¼	73.0	44.96	14.02	42.2	22.80	9.70	88.90	*	1.59
2 ½ x 1	73.0	44.96	14.02	33.4	15.22	9.09	88.90	*	1.59
3 x 2 ½	88.9	58.42	15.24	73.0	44.96	14.02	88.90	*	2.27
3 x 2	88.9	58.42	15.24	60.3	38.16	11.07	88.90	*	2.27
3 x 1 ½	88.9	58.42	15.24	48.3	28.00	10.15	88.90	*	2.27
3 x 1 ¼	88.9	58.42	15.24	42.2	22.80	9.70	88.90	*	2.04
❖ 3 x 1	88.9	58.42	15.24	33.4	15.22	9.09	88.90	*	2.04
4 x 3	114.3	80.06	17.12	88.9	58.42	15.24	101.60	*	3.63
4 x 2 ½	114.3	80.06	17.12	73.0	44.96	14.02	101.60	*	3.63
4 x 2	114.3	80.06	17.12	60.3	38.16	11.07	101.60	*	3.40
4 x 1 ½	114.3	80.06	17.12	48.3	28.00	10.15	101.60	*	3.40
❖ 4 x 1 ¼	114.3	80.06	17.12	42.2	22.80	9.70	101.60	*	3.40
❖ 4 x 1	114.3	80.06	17.12	33.4	15.22	9.09	101.60	*	3.18