

OVAL DUCT SYSTEMS

TAMBE METAL PRODUCTS

Flat oval duct combines the advantages of round duct and rectangular duct because it may fit in spaces where there is not enough room for round duct, and it can be joined using the techniques of round duct assembly.

Spiral flat oval duct is machine-made from round spiral lockseam duct and is available in varying sizes and aspect ratios. It can be made with longitudinal seams.

Flat oval duct has considerably less flat surface that is susceptible to vibration and requires less reinforcement than a corresponding size of rectangular duct. The deflection of the flat oval duct under pressure is related to the flat span rather than the overall width of the duct.

Any round duct fitting can have an equivalent fitting made in flat oval. As in rectangular duct, a hard bend elbow denotes the plane of the duct width, whereas an easy bend elbow denotes the bend in the plane of the duct height. Any branch fitting can be made with the branch tap either round or flat oval. The tap of the flat oval fitting can be located anywhere on the circumference of the fitting body. If the diameter of a round tap is greater than the height of the flat oval body, a transition can be made from flat oval to round, providing an equivalent area at the base of the transition.

Flat oval duct is for positive pressure applications only unless special designs are used.



Oval Duct CONSTRUCTION STANDARDS

TAMBE METAL PRODUCTS

FLAT OVAL DUCT CONSTRUCTION

Major Dimension Duct Width	Spiral Seam Duct Gauge	Longitudinal Seam Duct Gauge	Gauge of Fittings
to 24"	24	20	20
25 to 36"	22	20	20
37 to 48"	22	18	18
49 to 60"	20	18	18
61 to 70"	20	16	16
71" and up	18	16	16

* Initial spiral sizes indicated are for fabrication purposes only. For conversion from rectangular or round to oval, consult factory.

Nominal flat oval pipe sizes

* INITIAL SPIRAL SIZE	MINOR AXIS																MAJOR AXIS
	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	
15	20																
16	22																
17	23	22	21	20	19												
18	25	24	23	21	20	19											
19	26	25	24	23	22	21											
20	28	27	26	25	23	22	21										
22	31	30	29	28	27	25	24	23									
24	34	33	32	31	30	29	27	26	25								
26	37	36	35	34	33	32	31	29	28	27							
28	41	39	38	37	36	35	34	33	31	30							
30	44	42	41	40	39	38	37	36	35	33	32						
32	47	46	45	43	42	41	40	39	38	37	35	34					
34	50	49	48	47	45	44	43	42	41	40	39	37	36				
36	53	52	51	50	49	47	46	45	44	43	42	41	39	38			
38	56	55	54	53	52	51	49	48	47	46	45	44	43	41	40		
40	59	58	57	56	55	54	53	51	50	49	48	47	46	45	43	42	
42	63	61	60	59	58	57	56	55	53	52	51	50	49	48	47	45	
44	66	65	63	62	61	60	59	58	57	55	54	53	52	51	50	49	
46	69	68	67	65	64	63	62	61	60	59	57	56	55	54	53	52	
48	72	71	70	69	67	66	65	64	63	62	61	59	58	57	56	55	
50		74	73	72	71	69	68	67	66	65	64	63	61	60	59	58	
52				75	74	73	71	70	69	68	67	66	65	63	62	61	
54						76	75	73	72	71	70	69	68	67	65	64	
56						79	78	77	75	74	73	72	71	70	69	67	
58							81	80	79	77	76	75	74	73	72	71	
60									82	81	79	78	77	76	75	74	
62										85	84	83	81	80	79	78	77
64											86	85	83	82	81	80	
66													87	85	84	83	
68														89	87	86	
70															91	89	
72																93	

Oval Duct CONSTRUCTION STANDARDS

TAMBE METAL PRODUCTS

Actual flat oval pipe sizes

INITIAL SPIRAL SIZE	MINOR AXIS																MAJOR AXIS
	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	
15	20.14																
16	21.71																
17	23.28	22.14	21.00	19.85	18.71												
18	24.85	23.71	22.57	21.42	20.28	19.14											
19	26.42	25.28	24.14	23.00	21.85	20.71											
20	27.99	26.85	25.71	24.57	23.42	22.28	21.14										
22	31.13	29.99	28.85	27.71	26.57	25.42	24.28	23.14									
24	34.27	33.13	31.99	30.85	29.71	28.57	27.42	26.28	25.14								
26	37.42	36.27	35.13	33.99	32.85	31.71	30.57	29.42	28.28	27.14							
28	40.56	39.42	38.27	37.13	35.99	34.85	33.71	32.57	31.42	30.28							
30	43.70	42.56	41.42	40.27	39.13	37.99	36.85	35.71	34.57	33.42	32.28						
32	46.84	45.70	44.56	43.42	42.27	41.13	39.99	38.85	37.71	36.57	35.42	34.28					
34	49.98	48.84	47.70	46.56	45.42	44.27	43.13	41.99	40.85	39.71	38.57	37.42	36.28				
36	53.12	51.98	50.84	49.70	48.56	47.42	46.27	45.13	43.99	42.85	41.71	40.57	39.42	38.28			
38	56.27	55.12	53.98	52.84	51.70	50.56	49.42	48.27	47.13	45.99	44.85	43.71	42.57	41.42	40.28		
40	59.41	58.27	57.12	55.98	54.84	53.70	52.56	51.42	50.27	49.13	47.99	46.85	45.71	44.57	43.42	42.28	
42	62.55	61.41	60.27	59.12	57.98	56.84	55.70	54.56	53.42	52.27	51.13	49.99	48.85	47.71	46.57	45.42	
44	65.69	64.55	63.41	62.27	61.12	59.98	58.84	57.70	56.56	55.42	54.27	53.13	51.99			49.71	48.57
46	68.83	67.69	66.55	65.41	64.27	63.12	61.98	60.84	59.70	58.56	57.42	56.27	55.13			52.85	51.71
48	71.87	70.83	69.69	68.55	67.41	66.27	65.12	63.98	62.84	61.70	60.56	59.42	58.27			55.99	54.85
50		73.97	72.83	71.69	70.55	69.41	68.27	67.12	65.98	64.84	63.70	62.56	61.42			59.13	57.99
52				74.83	73.69	72.55	71.41	70.27	69.12	67.98	66.84	65.70	64.56			62.27	61.13
54						75.69	74.55	73.41	72.27	71.12	69.98	68.84	67.70			65.42	64.27
56						78.83	77.69	76.55	75.41	74.27	73.12	71.98	70.84			68.56	67.42
58							80.83	79.69	78.55	77.41	76.27	75.12	73.98			71.71	70.56
60									81.69	80.55	79.41	78.27	77.12			74.84	73.70
62									84.83	83.69	82.55	81.41	80.27			77.98	76.84
64											85.69	84.55	83.41			81.12	79.98
66													86.55			84.27	83.12
68																87.41	86.27
70																90.55	89.41
72																	92.55

Oval Duct **INSTALLATION**

TAMBE METAL PRODUCTS

Single wall slip fit

1. The fittings are male sized to slip into the pipe section. A good tight fit is necessary for minimalizing friction loss and good sealing. Care should be taken during handling to avoid any dents or distortions that can cause improper fit and difficult installation.
2. A sharp blow to the top of the collar with hand or sheet metal mallet can cause the collar to seat into the duct. For larger sized duct, straddle the duct and slightly compress duct sideways while another person jiggles the fitting into the duct.
3. As a last resort, a half moon cut on the top of the collar to eliminate the “high-spot” and the fitting slips easily into place.

Double wall slip fit

The inner and outer collars of fittings are male sized and designed to slip into the connecting duct. The inner collar projects beyond the outer collar permitting the inner collar to be started into the inner liner of the duct section similar to the single wall technique.

1. Bring bottom of inner collar into the duct section at a slight angle.
2. Using slight pressure, work the rest of the collar into the duct.
3. When the inner collar is fully started into the duct, start the outer collar in the same manner. Tilt the bottom edge slightly upon insertion and tap the “high-spots” to work the collar into the duct.

It is suggested to save time, sub-assemblies be made on the floor then hoisted into place.

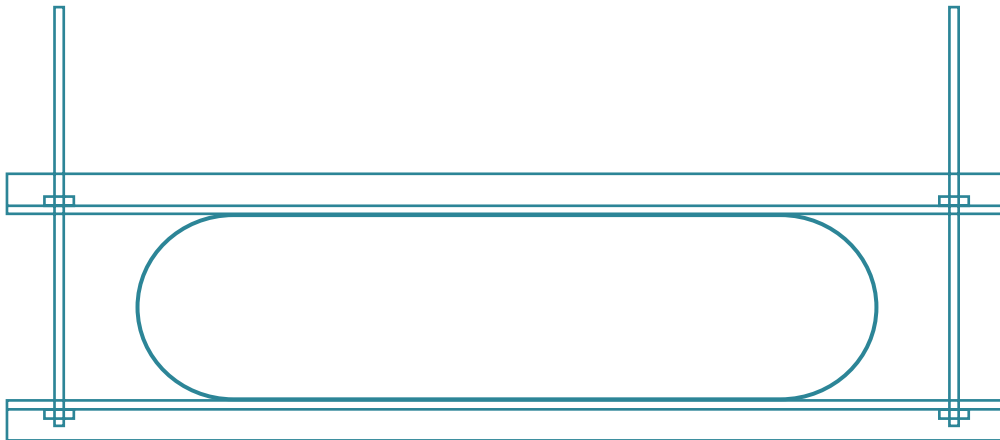
Additional suggestions for installation

1. Rest your duct on two blocks of wood and then using your hands and moving the duct, in an up and down motion, will help you make your connection without damaging the duct.
2. Allowances have already been made in fittings for installation. Should a kink occur through handling, by carefully straightening out the kinks and bends a good connection can still be made.
3. **DO NOT** use a hammer and screwdriver to make a connection. The possibility of causing damages internally is a real danger to friction loss. Apply pressure with the heel of your hand or a good thump with your fist can help the fitting slip into the duct.
4. Apply duct sealant to the internal end of the spiral approximately 1” and apply duct sealant around the slip part of your fitting. As the fitting slips into the spiral duct the sealant will not scrape off in the slip connection.
5. Whenever possible brush your internal joint to make it smooth inside and out; also, inspect your sealed joints for coverage. One to two days after completing the connections check connections for shrinkage of the duct sealant. Reapply sealant where needed.

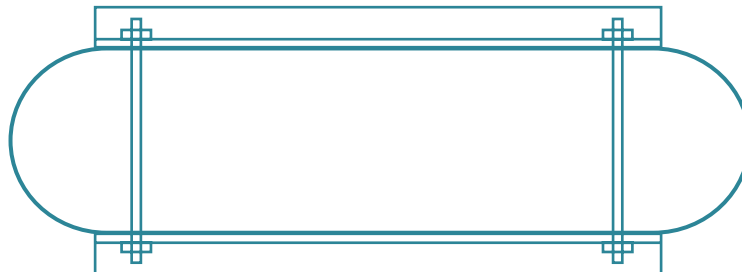
Oval Duct **REINFORCEMENT**

TAMBE METAL PRODUCTS

Double trapeze reinforcement and hanger for oval duct



Flat span reinforcement with internal tie rods for oval duct



See the following 4 pages for size and spacing of reinforcement.
Reinforcement schedules are shown for 2", 3', 4', and 6" W.G. systems.

Oval Duct REINFORCEMENT

TAMBE METAL PRODUCTS

2" W.G. Reinforcement

To use this table:

1. Find the minor axis of the oval size you wish to reinforce in the first row.
2. Go down the column for that minor axis until you reach the major axis of the oval size you wish to reinforce.
3. To the left of the major axis you will find the appropriate reinforcement.

INITIAL SPIRAL SIZE	MINOR AXIS																MAJOR AXIS
	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	
15	B8/20	NR/19	NR/18	NR/17	NR/16												
16	C8/22	B8/21	NR/19	NR/18	NR/17												
17	C8/23	B8/22	NR/21	NR/20	NR/19	NR/18											
18	C6/25	C8/24	B8/23	NR/21	NR/20	NR/19											
19	C8/26	C10/25	B8/24	NR/23	NR/22	NR/21											
20	D8/28	C8/27	C10/26	D8/25	NR/23	NR/22	NR/21										
22	E8/31	D8/30	C8/29	C10/28	NR/27	NR/25	NR/24										
24	E6/34	E8/33	D8/32	C8/31	C10/30	NR/29	NR/27	NR/26									
26	F5/37	E6/36	E8/35	D8/34	C8/33	C10/32	NR/31	NR/29	NR/28								
28	F5/41	F5/39	E6/38	E8/37	D8/36	C8/35	C10/34	NR/33	NR/31	NR/30							
30	F4/44	F5/43	F5/41	E6/40	E8/39	D8/38	C8/37	C10/36	NR/35	NR/33	NR/32						
32	F4/47	F4/46	F5/45	F5/43	E6/42	E8/41	D8/40	C8/39	C10/38	NR/37	NR/35	NR/34					
34	H5/50	F4/49	F4/48	F5/47	F5/45	E6/44	E8/43	D8/42	C8/41	C10/40	NR/39	NR/37	NR/36				
36	H5/53	H5/52	G5/51	G5/50	F5/49	F5/47	E6/46	E8/45	D8/44	C8/43	C10/42	NR/41	NR/39	NR/38			
38	H4/56	H5/55	H5/54	G5/53	G5/52	F6/51	F6/49	E6/48	E8/47	D8/46	C8/45	C10/44	NR/43	NR/41	NR/40		
40	H4/59	H4/58	H5/57	H5/56	G5/55	GS/54	F6/53	F6/51	E8/50	E10/49	D8/48	C8/47	C10/46	NR/45	NR/43	NR/42	
42	G3/63	H4/61	H4/60	H5/59	H5/58	GS/57	G5/56	F6/55	F6/53	E8/52	E10/51	D10/50	C8/49	C10/48	NR/47	NR/45	
44	G3/66	G3/65	H4/63	H4/62	H5/61	H5/60	G5/59	G5/58	F6/57	F6/55	E8/54	E10/53	D10/52	C10/51	NR/50	NR/49	
46	H3/69	G3/68	G3/67	H4/65	H4/64	H5/63	H5/62	G5/61	G5/60	F6/59	F6/57	E8/56	E10/55	D10/54	C10/53	NR/52	
48	I4/72	H3/71	G3/70	G3/69	H4/67	H4/66	H5/65	H5/64	G5/63	G5/62	F6/61	F6/59	E8/58	E10/57	D10/56	C10/55	
50		I4/74	I4/73	I5/72	G3/71	H4/69	H4/68	H5/67	H5/66	G5/65	G5/64	F6/63	F6/61	E8/60	E10/59	D10/58	
52				I5/75	I5/74	I5/73	H5/71	H4/70	H5/69	H5/68	G5/67	G5/66	F6/65	F6/63	E8/62	E10/61	
54						I5/76	I5/75	H5/73	H5/72	H5/71	H5/70	G5/69	G5/68	F6/67	F6/65	E8/64	
56						I5/79	I5/78	I5/77	H5/75	H5/74	H5/73	H6/72	G5/71	G5/70	F6/69	F6/67	
58							I4/81	I5/80	I5/79	H5/77	H5/76	H5/75	H6/74	G6/73	G6/72	F6/71	
60									I5/82	I5/81	H5/79	H5/78	H5/77	H6/76	G6/75	G6/74	
62									I4/85	I5/84	I5/83	H5/81	H5/80	H5/79	H6/78	G6/77	
64											I5/86	I5/85	H5/83	H5/82	H5/81	H6/80	
66													I5/87	H5/85	H5/84	H5/83	
68														I5/89	H5/87	H5/86	
70															I5/91	H5/89	
72																I5/93	

Oval Duct REINFORCEMENT

TAMBE METAL PRODUCTS

3" W.G. Reinforcement

To use this table:

1. Find the minor axis of the oval size you wish to reinforce in the first row.
2. Go down the column for that minor axis until you reach the major axis of the oval size you wish to reinforce.
3. To the left of the major axis you will find the appropriate reinforcement.

INITIAL SPIRAL SIZE	MINOR AXIS																MAJOR AXIS
	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	
15	B8/20	NR/19	NR/18	NR/17	NR/16												
16	C6/22	B8/21	NR/19	NR/18	NR/17												
17	C6/23	B8/22	NR/21	NR/20	NR/19	NR/18											
18	D6/25	C6/24	B8/23	NR/21	NR/20	NR/19											
19	D6/26	D8/25	B8/24	NR/23	NR/22	NR/21											
20	E6/28	D6/27	C8/26	B8/25	NR/23	NR/22	NR/21										
22	E6/31	E6/30	D6/29	C8/28	C8/27	NR/25	NR/24										
24	F5/34	E6/33	E6/32	D6/31	C8/30	C8/29	NR/27	NR/26									
26	F4/37	F5/36	E6/35	E6/34	D6/33	C8/32	C8/31	NR/29	NR/28								
28	F4/41	F4/39	F5/38	E6/37	E6/36	D6/35	C8/34	C8/33	NR/31	NR/30							
30	G4/44	F4/43	F4/41	F5/40	E6/39	E6/38	D6/37	C8/36	C8/35	NR/33	NR/32						
32	G4/47	G4/46	F4/45	F4/43	F5/42	E6/41	E6/40	D8/39	C8/38	C8/37	NR/35	NR/34					
34	H4/50	G4/49	G4/48	F4/47	F4/45	F5/44	E6/43	E6/42	D6/41	C8/40	C8/39	NR/37	NR/36				
36	H4/53	H4/52	H5/51	H5/50	F4/49	F4/47	F5/46	E6/45	E6/44	D6/43	C8/42	C8/41	NR/39	NR/38			
38	H3/56	H4/55	H4/54	H5/53	H5/52	G5/51	G5/49	F5/48	E6/47	E6/46	D6/45	C8/44	C8/43	NR/41	NR/40		
40	H3/59	H3/58	H4/57	H4/56	H5/55	H5/54	G5/53	G5/51	F6/50	E6/49	E6/48	D6/47	C8/46	C8/45	NR/43	NR/42	
42	H3/63	H3/61	H3/60	H4/59	H4/58	H5/57	H5/56	G5/55	G5/53	F6/52	E6/51	E8/50	D6/49	C8/48	C8/47	NR/45	
44	H3/66	H3/65	H3/63	H3/62	H4/61	H4/60	H5/59	H5/58	G5/57	G5/55	F6/54	E6/53	E8/52	D8/51	C8/50	C8/49	
46	I3/69	H3/68	H3/67	H3/65	H3/63	H4/63	H4/62	H5/61	H5/60	G5/59	G5/57	F6/56	E6/55	E8/54	D8/53	C8/52	
48	I3/72	I3/71	H3/70	H3/69	H3/67	H3/66	H4/65	H4/64	H5/63	H5/62	G5/61	G5/59	F6/58	E6/57	E8/56	D8/55	
50		I4/74	I3/73	I4/72	H3/71	H3/69	H3/68	H4/67	H4/66	H5/65	H5/64	G5/63	G5/61	F6/60	E6/59	E8/58	
52				I4/75	I4/74	I4/73	I5/71	H3/70	H4/69	H4/68	H5/67	H5/66	G5/65	G5/63	F6/62	E6/61	
54						I4/76	I4/75	I5/73	I5/72	I5/71	H4/70	H5/69	H5/68	G5/67	G5/65	F6/64	
56						I3/79	I4/78	I4/77	I5/75	I5/74	I5/73	I5/72	H5/71	H5/70	G5/69	G5/67	
58							I3/81	I4/80	I4/79	I5/77	I5/76	I5/75	I5/74	H6/73	H6/72	G5/71	
60									I4/82	I4/81	I5/79	I5/78	I5/77	I5/76	H6/75	H6/74	
62									I3/85	I4/84	I4/83	I5/81	I5/80	I5/79	I5/78	H6/77	
64											I4/86	I4/85	I5/83	I5/82	I5/81	I5/80	
66													I4/87	I5/85	I5/84	I5/83	
68														I4/89	I5/87	I5/86	
70															I4/91	I5/89	
72																I4/93	

Oval Duct REINFORCEMENT

TAMBE METAL PRODUCTS

4" W.G. Reinforcement

To use this table:

1. Find the minor axis of the oval size you wish to reinforce in the first row.
2. Go down the column for that minor axis until you reach the major axis of the oval size you wish to reinforce.
3. To the left of the major axis you will find the appropriate reinforcement.

INITIAL SPIRAL SIZE	MINOR AXIS																MAJOR AXIS
	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	
15	C5/20	C6/19	NR/18	NR/17	NR/16												
16	C5/22	C5/21	B6/19	NR/18	NR/17												
17	D5/23	C5/22	C6/21	NR/20	NR/19	NR/18											
18	E5/25	C5/24	C5/23	B6/21	NR/20	NR/19											
19	E6/26	D6/25	C5/24	C6/23	NR/22	NR/21											
20	E5/28	E6/27	D6/26	C5/25	B6/23	NR/22	NR/21										
22	F5/31	E5/30	E6/29	D6/28	B8/27	NR/25	NR/24										
24	F5/34	F5/33	E5/32	E6/31	D6/30	B8/29	NR/27	NR/26									
26	G4/37	F5/36	F5/35	E5/34	E6/33	D6/32	B8/31	NR/29	NR/28								
28	G4/41	G4/39	F5/38	F5/37	E5/36	E6/35	D6/34	B8/33	NR/31	NR/30							
30	G3/44	G4/43	G4/41	F5/40	F5/39	E5/38	E6/37	D6/36	B8/35	NR/33	NR/32						
32	G3/47	G3/46	G4/45	G4/43	F5/42	F5/41	E5/40	E6/39	D6/38	B8/37	NR/35	NR/34					
34	H3/50	G3/49	G3/48	G4/47	G4/45	F5/44	F5/43	E5/42	E6/41	D6/40	B8/39	NR/37	NR/36				
36	H3/53	H3/52	H4/51	H4/50	G4/49	G4/47	F5/46	F5/45	E5/44	E6/43	D6/42	B8/41	NR/39	NR/38			
38	I3/56	H3/55	H3/54	H4/53	H4/52	H5/51	H5/49	F5/48	F5/47	E5/46	E6/45	D6/44	B8/43	NR/41	NR/40		
40	I3/59	I3/58	H3/57	H3/56	H4/55	H4/54	H5/53	H5/51	G6/50	F6/49	E5/48	E6/47	D6/46	B8/45	NR/43	NR/42	
42	I3/63	I3/61	I3/60	H3/59	H3/58	H4/57	H4/56	H5/55	H5/53	G6/52	F6/51	E6/50	E6/49	D6/48	B8/47	NR/45	
44	I3/66	I3/65	I3/63	I3/62	H3/61	H3/60	H4/59	H4/58	H5/57	H5/55	G6/54	F6/53	E6/52	E8/51	D8/50	B8/49	
46		I3/68	I3/67	I3/65	I3/64	H3/63	H3/62	H4/61	H4/60	H5/59	H5/57	G6/56	F6/55	E6/54	E8/53	D8/52	
48		I2.5/71	I3/70	I3/69	I3/67	I3/66	H3/65	H3/64	H4/63	H4/62	H5/61	H5/59	G6/58	F6/57	E6/56	E8/55	
50		J3/74	J3/73	H3/72	I3/71	I3/69	I3/68	H3/67	H3/66	H4/65	H4/64	H5/63	H5/61	G6/60	F6/59	E6/58	
52				H3/75	H3/74	H3/73	I4/71	I3/70	H3/69	H3/68	H4/67	H4/66	H5/65	H5/63	G6/62	F6/61	
54						H3/76	H3/75	I4/73	I4/72	I5/71	H3/70	H4/69	H4/68	H5/67	H5/65	G6/64	
56						J3/79	H3/78	H3/77	I4/75	I4/74	I5/73	I5/72	H4/71	H4/70	H5/69	H5/67	
58							J3/81	H3/80	H3/79	I4/77	I4/76	I5/75	I5/74	I5/73	I5/72	H5/71	
60									H3/82	H3/81	I4/79	I4/78	I5/77	I5/76	I5/75	I5/74	
62									J3/85	H3/84	H3/83	I4/81	I4/80	I5/79	I5/78	I5/77	
64											H3/86	H3/85	I4/83	I4/82	I5/81	I5/80	
66													H3/87	I4/85	I4/84	I5/83	
68														H3/89	I4/87	I4/86	
70															H3/91	I4/89	
72																H3/93	

Oval Duct REINFORCEMENT

TAMBE METAL PRODUCTS

6" W.G. Reinforcement

To use this table:

1. Find the minor axis of the oval size you wish to reinforce in the first row.
2. Go down the column for that minor axis until you reach the major axis of the oval size you wish to reinforce.
3. To the left of the major axis you will find the appropriate reinforcement.

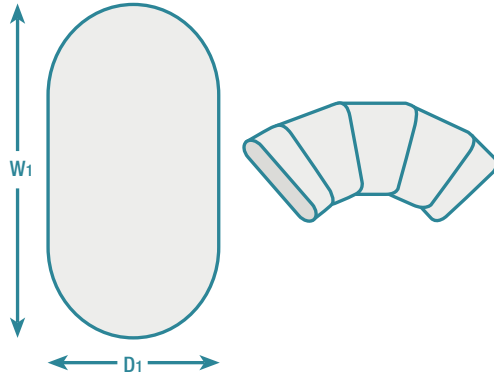
INITIAL SPIRAL SIZE	MINOR AXIS																MAJOR AXIS
	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	
15	C4/20	C5/19	NR/18	NR/17	NR/16												
16	D4/22	C4/21	C5/19	NR/18	NR/17												
17	E4/23	C4/22	C5/21	NR/20	NR/19	NR/18											
18	E4/25	D4/24	C4/23	C5/21	NR/20	NR/19											
19	E5/26	E5/25	C4/24	C5/23	NR/22	NR/21											
20	F5/28	E5/27	D5/26	C4/25	C5/23	NR/22	NR/21										
22	F4/31	F5/30	E5/29	D5/28	D5/27	B6/25	NR/24										
24	G4/34	F4/33	F5/32	E5/31	D5/30	D5/29	B6/27	NR/26									
26	H3/37	G4/36	F4/35	E5/34	E5/33	D5/32	D5/31	B6/29	NR/28								
28	H3/41	H3/39	G4/38	F4/37	F5/36	E5/35	D5/34	D5/33	B6/31	NR/30							
30	H2.5/44	H3/43	H3/41	G4/40	F4/39	F5/38	E5/37	D5/36	D5/35	B6/33	NR/32						
32	H2.5/47	H2.5/46	H3/45	H3/43	G4/42	F4/41	F5/40	E5/39	D5/38	D5/37	B6/35	NR/34					
34	I2.5/50	H2.5/48	H2.5/48	H3/47	H3/45	G4/44	F4/43	F5/42	E5/41	D5/40	D5/39	B6/37	NR/36				
36	I2.5/53	I2.5/52	H3/51	H3/50	H3/49	H4/47	G4/46	F4/45	F5/44	E5/43	D5/42	D5/41	B6/39	NR/38			
38	I2.5/56	I2.5/55	I2.5/54	H3/53	H3/52	H4/51	H4/49	G4/48	F4/47	F5/46	E5/45	D5/44	D5/43	B6/41	NR/40		
40	I2.5/59	I2.5/58	I2.5/57	I2.5/56	H3/55	H3/54	H4/53	H4/51	H5/50	G5/49	F5/48	E5/47	D5/46	D5/45	B6/43	NR/42	
42	I2.5/63	I2.5/61	I2.5/60	I2.5/59	I2.5/58	H3/57	H3/56	H4/55	H4/53	H5/52	G5/51	F6/50	E5/49	D5/48	D5/45	B6/45	
44	I2.5/66	I2.5/65	I2.5/63	I2.5/62	I2.5/61	I2.5/60	H3/59	H3/58	H4/57	H4/55	H5/54	G5/53	F6/52	F6/51	D6/50	D5/49	
46	J2/69	I2.5/68	I2.5/67	I2.5/65	I2.5/64	I2.5/63	I2.5/62	H3/61	H3/60	H4/59	H4/57	H5/56	G5/55	F6/54	F6/53	D6/52	
48	J2.5/72	J2/74	I2.5/70	I2.5/69	I2.5/67	I2.5/66	I2.5/65	I2.5/64	H3/63	H3/62	H4/61	H4/59	H5/58	G5/57	F6/56	F6/55	
50		J2.5/74	J2.5/73	J3/72	I2.5/71	I2.5/69	I2.5/68	I2.5/67	I2.5/66	H3/65	H3/64	H4/63	H4/61	H5/60	G5/59	F6/58	
52				J2.5/75	J3/74	J3/73	I3/71	I2.5/70	I2.5/69	I2.5/68	H3/67	H3/66	H4/65	H4/63	H5/62	G5/61	
54						J3/76	J3/75	I3/73	I3/72	I4/71	I2.5/70	H3/69	H3/68	H4/67	H4/65	H5/64	
56						J2.5/79	J3/78	J3/77	I3/75	I3/74	I4/73	I4/72	H3/71	H3/70	H4/69	H4/67	
58							J2.5/81	J3/80	J3/79	I3/77	I3/76	I4/75	I4/74	I4/73	I4/72	H4/71	
60									J3/82	J3/81	I3/79	I3/78	I4/77	I4/76	I4/75	I4/74	
62									J2.5/85	J3/84	J3/83	I3/81	I3/80	I4/79	I4/78	I4/77	
64											J3/86	J3/85	I3/83	I3/82	I4/81	I4/80	
66													J3/87	I3/85	I3/84	I4/83	
68														J3/89	I3/87	I3/86	
70															J3/91	I3/89	
72																J3/93	

Single Wall Oval **ELBOWS**

TAMBE METAL PRODUCTS

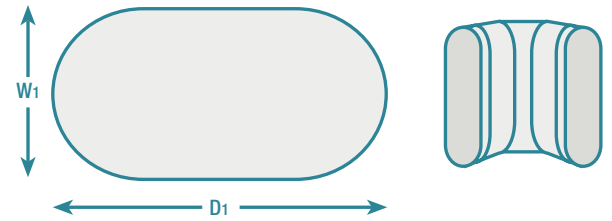
HB

HARD BEND



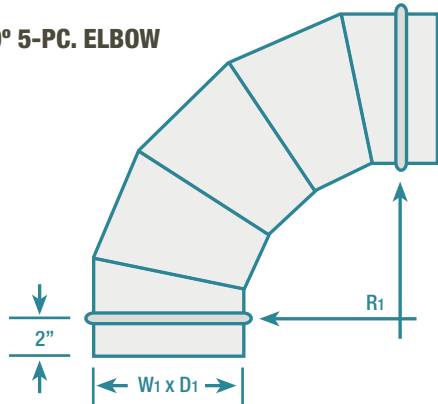
EB

EASY BEND



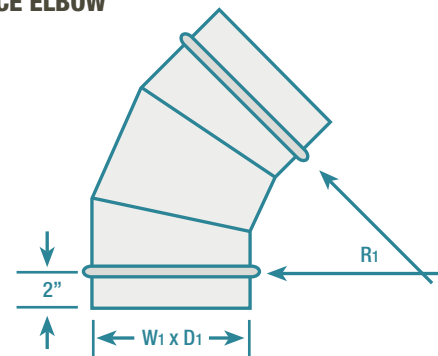
E90

90° 5-PC. ELBOW



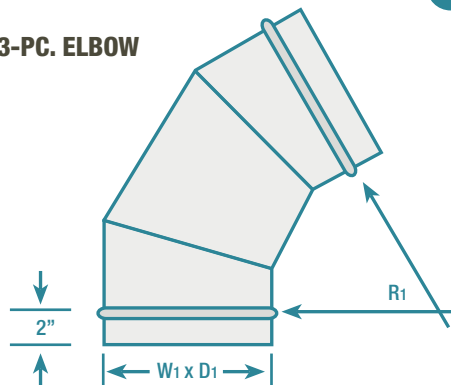
E45

45° 3-PIECE ELBOW



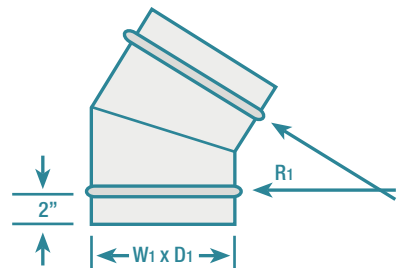
E60

60° 3-PC. ELBOW



E15/E30

15° & 30° 2-PIECE ELBOW

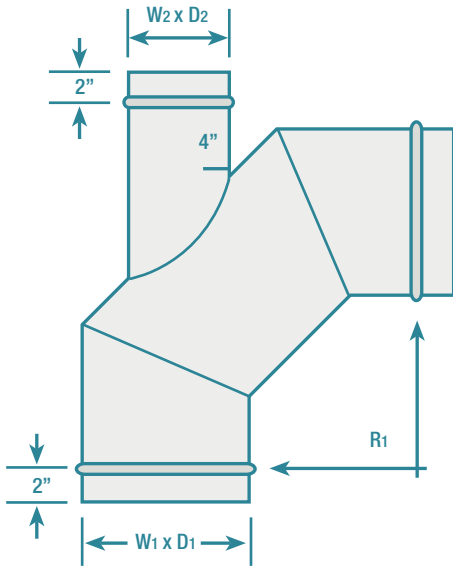


Single Wall Oval **ELBOWS**

TAMBE METAL PRODUCTS

90° 3-PC. ELBOW WITH STRAIGHT LATERAL

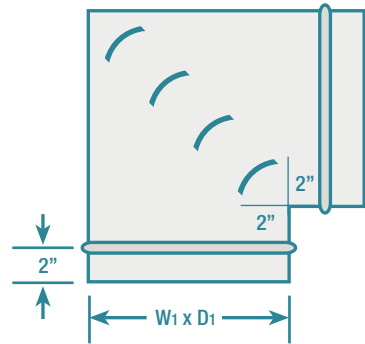
E90L



E290/EV290

With or without vanes.

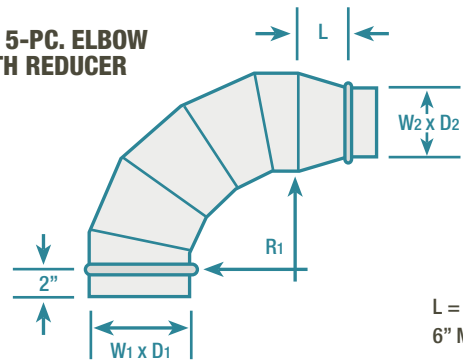
90° 2-PC. ELBOW



D1	No. of vanes
3-9	2
10-14	3
15-19	4
20-60	5
≥60	Max 12" spacing

E90R

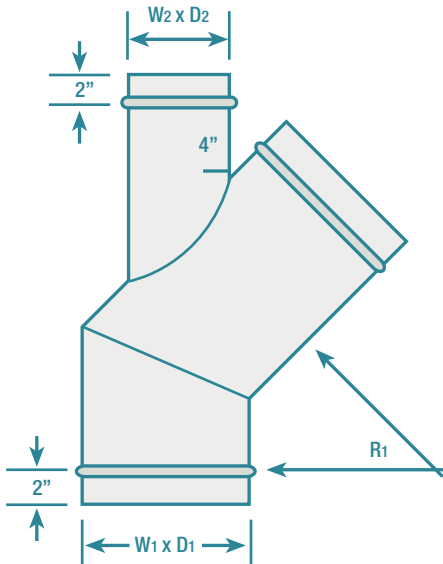
90° 5-PC. ELBOW WITH REDUCER



$L = W_1 - W_2$
6" Minimum

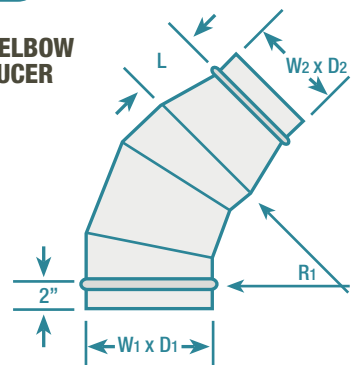
45° 2-PC. ELBOW WITH STRAIGHT LATERAL

E45L



E45R

45° 3-PC. ELBOW WITH REDUCER



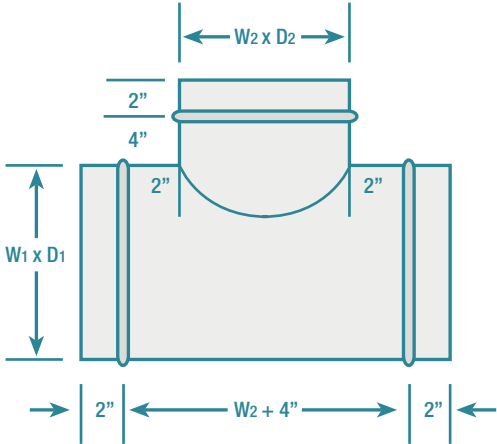
$L = W_1 - W_2$
6" Minimum

Single Wall Oval STRAIGHT TEES

TAMBE METAL PRODUCTS

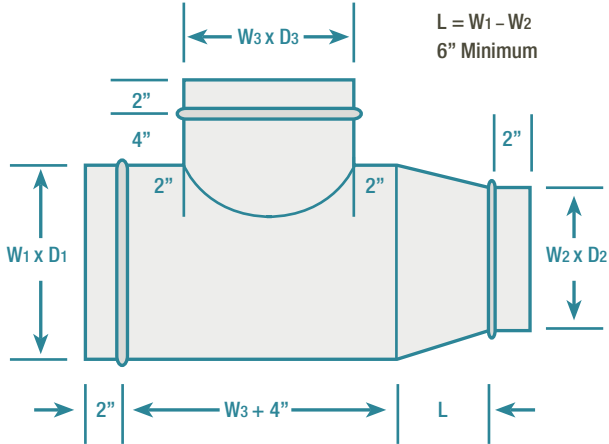
T

TEE



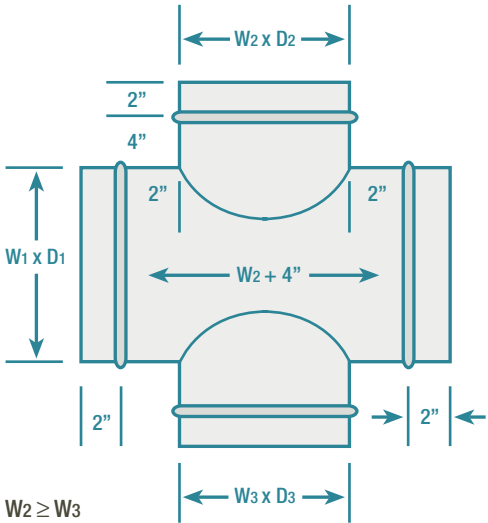
TR

REDUCING TEE



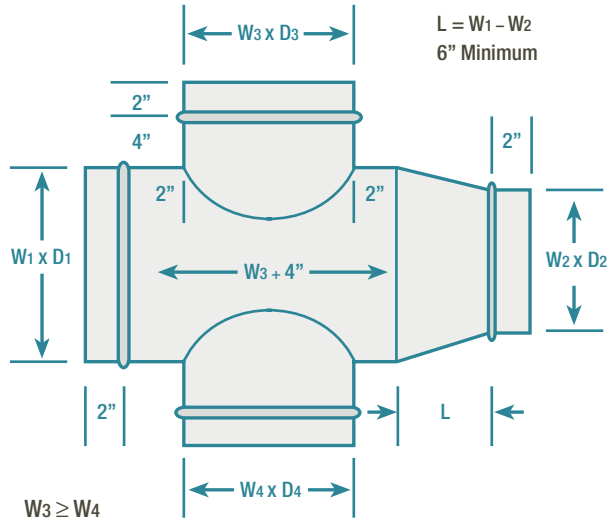
TX

TEE CROSS



TRX

REDUCING TEE CROSS

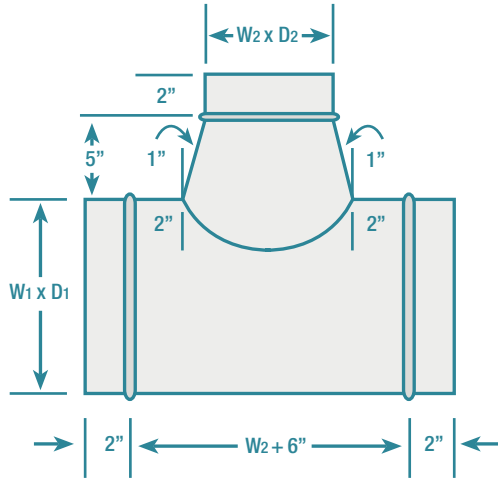


Single Wall Oval CONICAL TEES

TAMBE METAL PRODUCTS

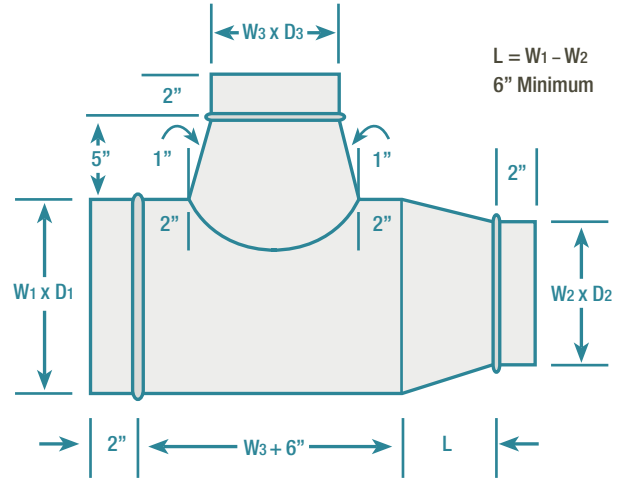
CT

CONICAL TEE



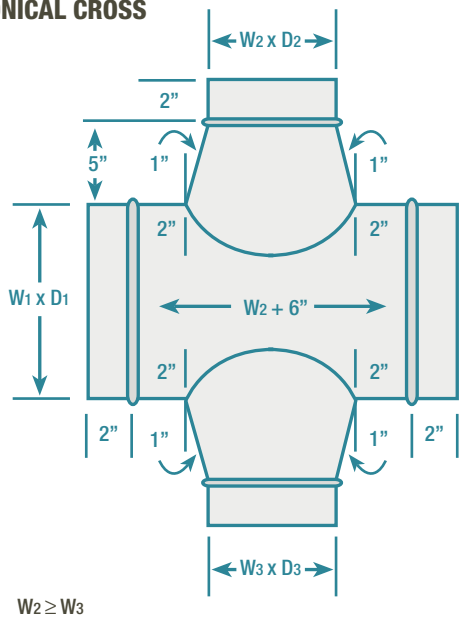
CTR

REDUCING CONICAL TEE



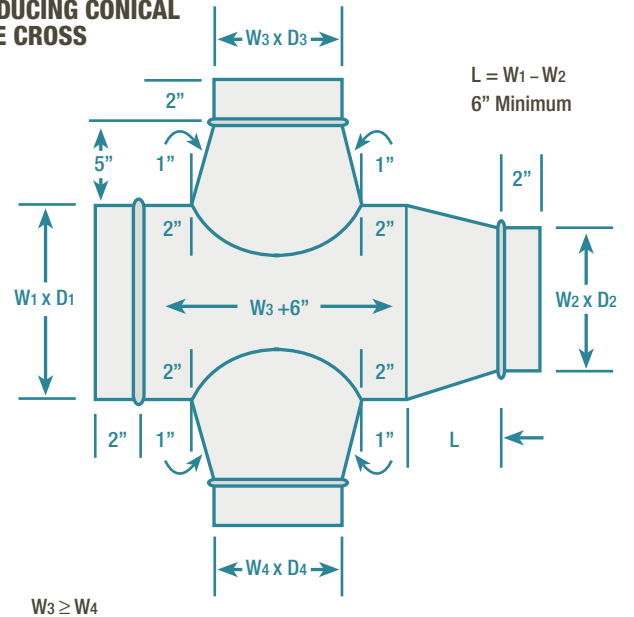
CTX

CONICAL CROSS



CTRX

REDUCING CONICAL TEE CROSS

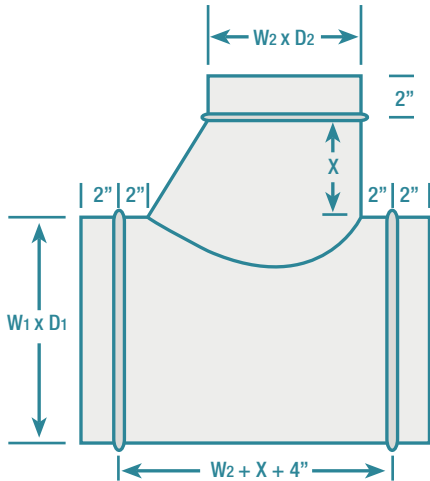


Single Wall Oval **SHOE TEES**

TAMBE METAL PRODUCTS

ST

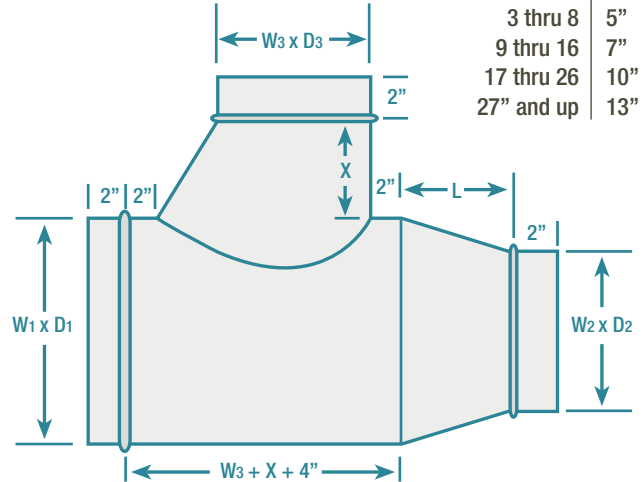
SHOE TEE



W2	X
3 thru 8	5"
9 thru 16	7"
17 thru 26	10"
27" and up	13"

STR

REDUCING SHOE TEE

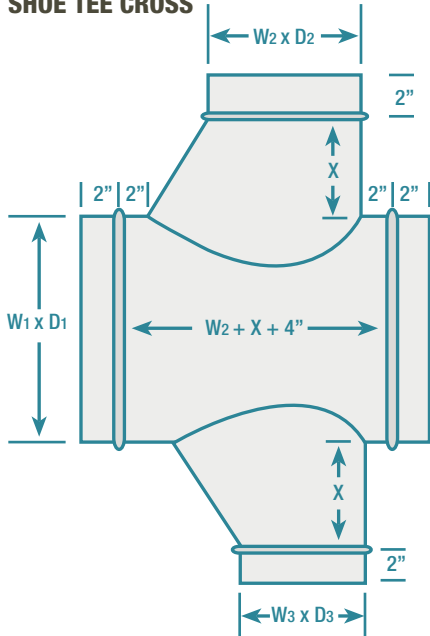


W3	X
3 thru 8	5"
9 thru 16	7"
17 thru 26	10"
27" and up	13"

$L = W1 - W2$
Minimum 6"

STX

SHOE TEE CROSS

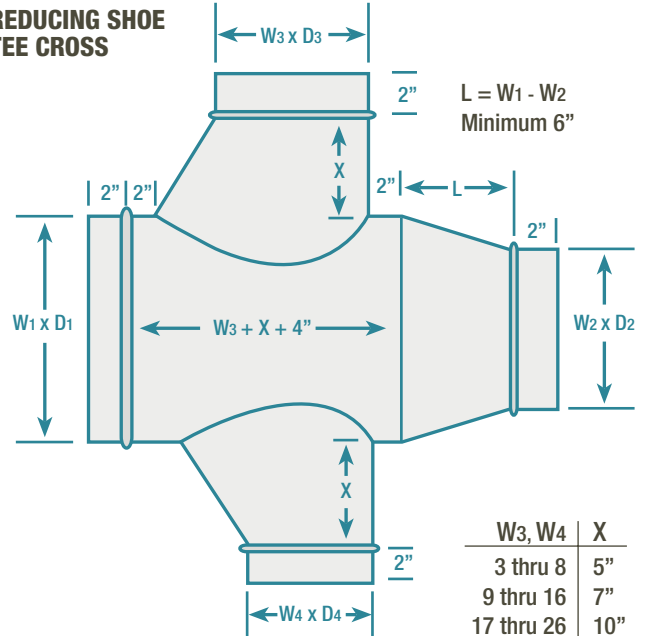


W2, W3	X
3 thru 8	5"
9 thru 16	7"
17 thru 26	10"
27" and up	13"

$W2 \geq W3$

STRX

REDUCING SHOE TEE CROSS



$L = W1 - W2$
Minimum 6"

W3, W4	X
3 thru 8	5"
9 thru 16	7"
17 thru 26	10"
27" and up	13"

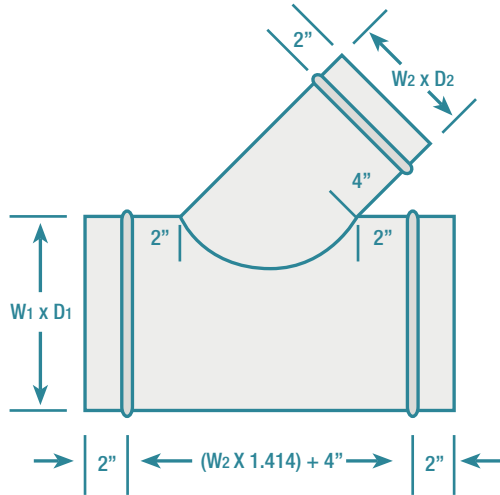
$W3 \geq W4$

Single Wall Oval **STRAIGHT LATERALS**

TAMBE METAL PRODUCTS

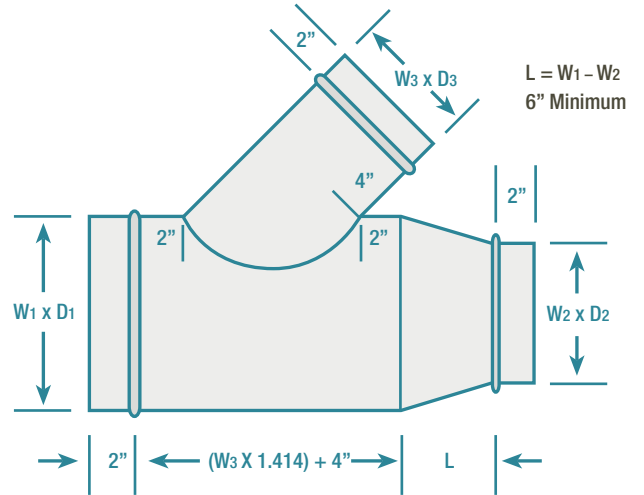
L

45° LATERAL



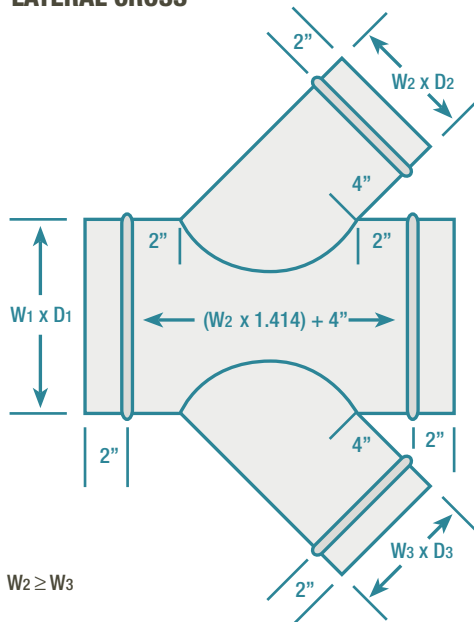
LR

45° REDUCING LATERAL



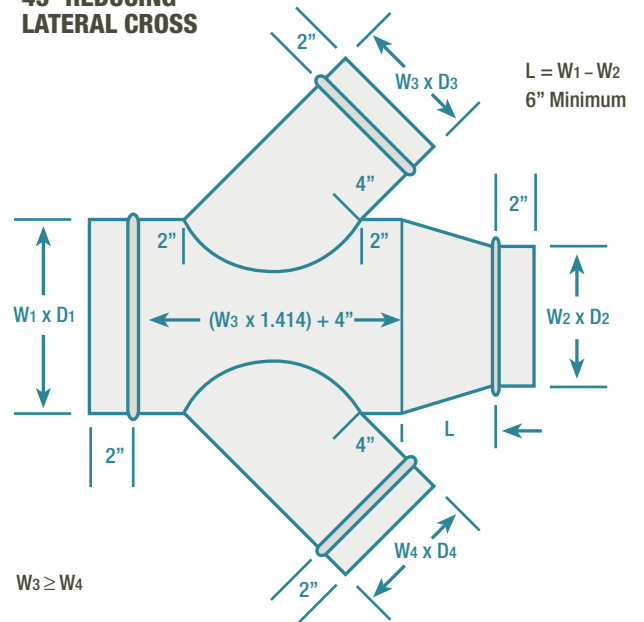
LX

45° LATERAL CROSS



LRX

45° REDUCING LATERAL CROSS

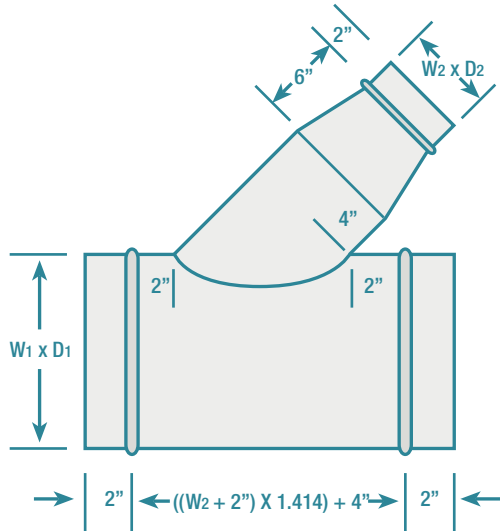


Single Wall Oval CONICAL LATERALS

TAMBE METAL PRODUCTS

CL

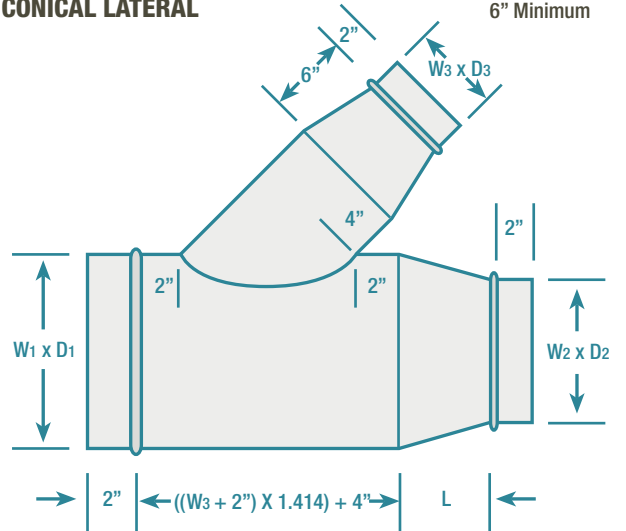
45° CONICAL LATERAL



CLR

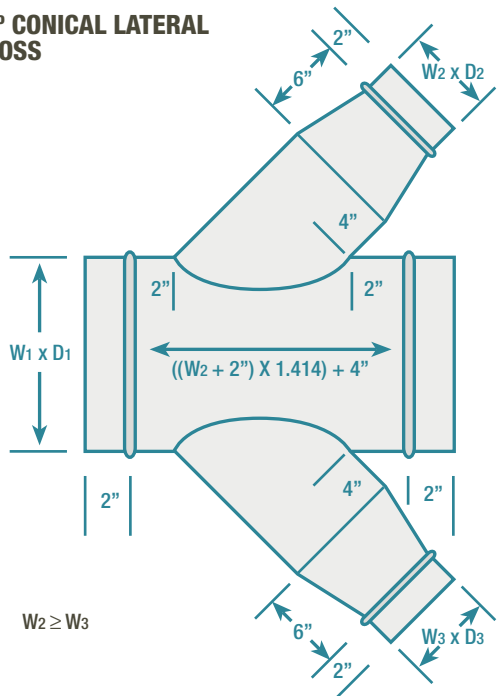
45° REDUCING CONICAL LATERAL

$L = W_1 - W_2$
6" Minimum



CLX

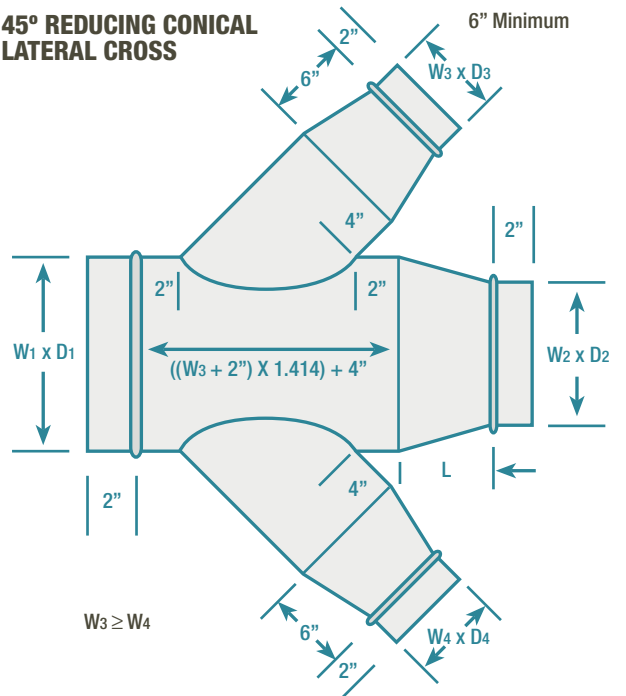
45° CONICAL LATERAL CROSS



CLR X

45° REDUCING CONICAL LATERAL CROSS

$L = W_1 - W_2$
6" Minimum



Single Wall Oval MISCELLANEOUS

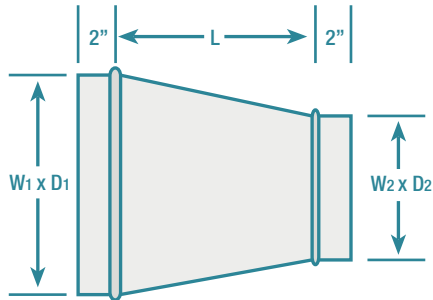
TAMBE METAL PRODUCTS

RDC

CONCENTRIC REDUCER

$$L = W_1 - W_2$$

6" Minimum

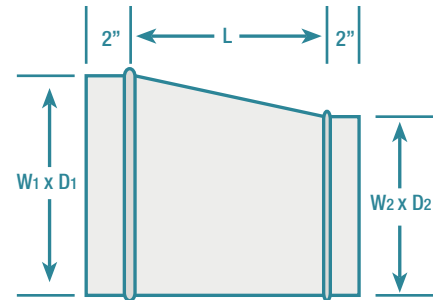


RDE

ECCENTRIC REDUCER

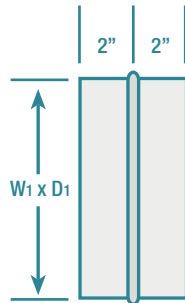
$$L = 2 [W_1 - W_2]$$

6" Minimum



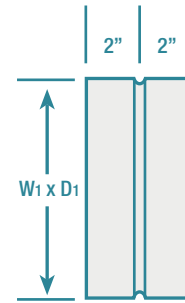
PC

PIPE COUPLING



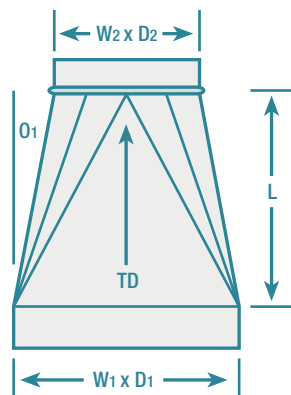
FC

FITTING COUPLING



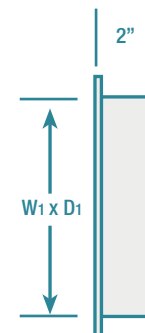
RTR

RECTANGLE TO ROUND



EC

END CAP

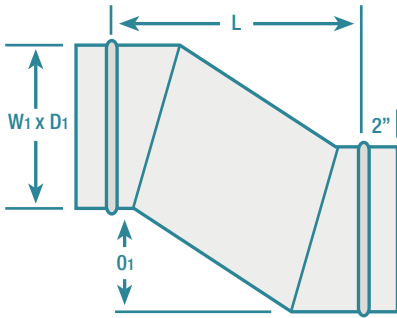


Single Wall Oval MISCELLANEOUS

TAMBE METAL PRODUCTS

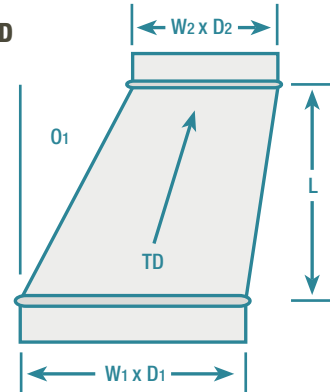
SET

OFFSET



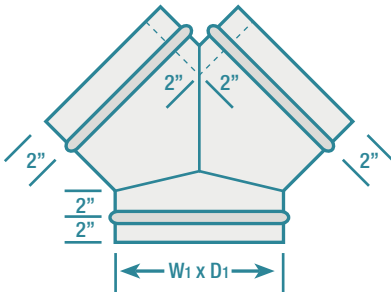
ROET

ROUND TO ROUND



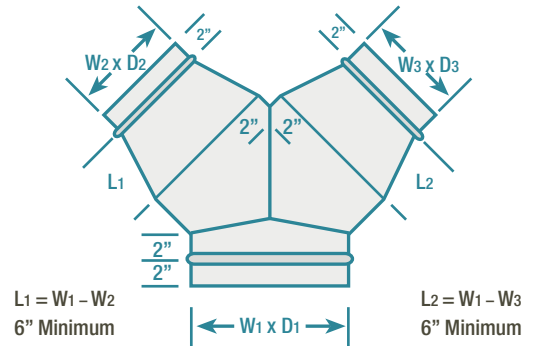
Y45

Y BRANCH



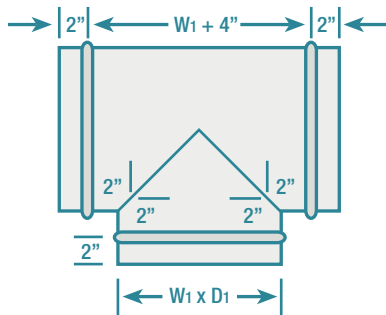
YR45

REDUCING Y BRANCH



BHT/BHTV

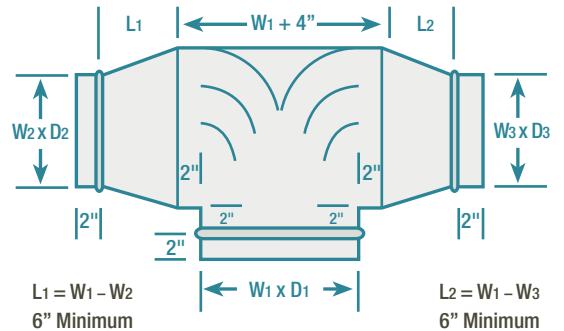
BULL HEAD TEE With or without vanes.



D1	No. of vanes
3-7	1
8-10	3
10-60	5
>60	Max 12" spacing

BHTR/BHTRV

REDUCING BULL HEAD TEE With or without vanes.

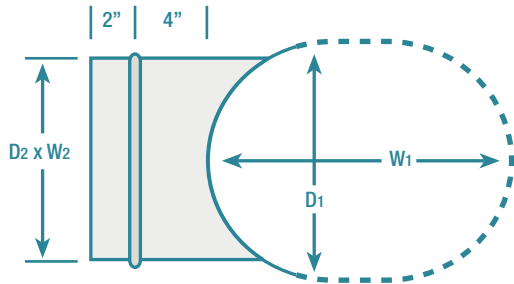


Shop/Field Installed **ACCESSORIES**

TAMBE METAL PRODUCTS

TAP 90

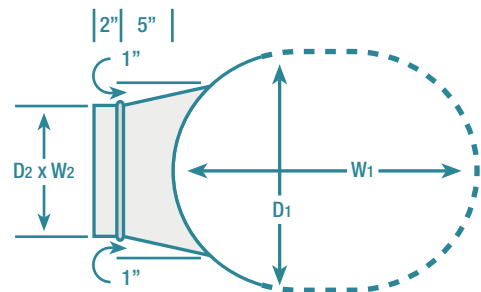
TAP



Standard flange is 1/2".
2" saddle is also available.

CTAP 90

CONICAL TAP

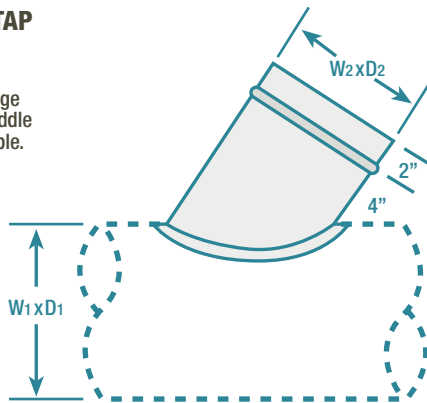


Standard flange is 1/2".
2" saddle is also available.

TAP 45

LATERAL TAP

Standard flange is 1/2". 2" saddle is also available.

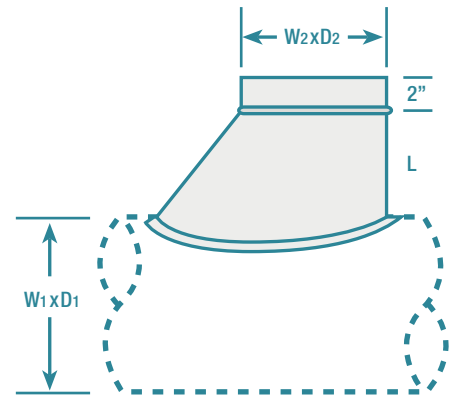


STR

SHOE TAP

W2	L
3 thru 8	5"
9 thru 16	7"
17 thru 26	10"
27" and up	13"

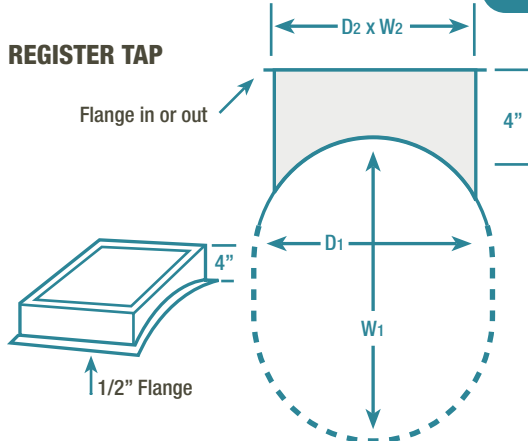
Standard flange is 1/2". 2" saddle is also available.



RECTAP

REGISTER TAP

Flange in or out



ADOOR

ACCESS DOOR

