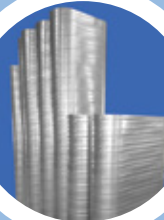
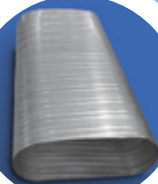
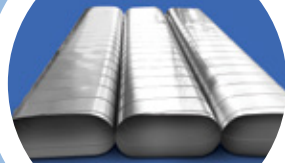




SHARQAWI
Air Distribution Systems Co. Factory

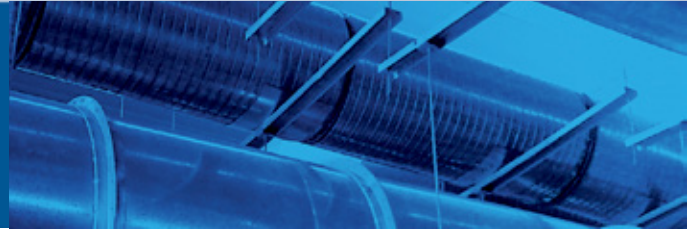
Delivering Excellence

OVAL DUCT SYSTEMS



- On Time Delivery • According to Standard
- Customization • Quality • Cooperation

Delivering Excellence



ABOUT US

Sharqawi Air Distribution Systems Co. Factory, has been in the market since 1995, as one leading manufacturer in the kingdom of Saudi Arabia in the field of fabrication of HVAC duct and its Accessories. Upon whose satisfaction we have been allowed to grow and prosper in this highly competitive marketplace.

As one of the leading HVAC ducts and its accessories manufacturers, our reason of 'being' is a combination of our vision, mission, and values.

Vision:

We aspire making Sharqawi the most trusted manufacturer of HVAC ducts and its accessories in the Kingdom of Saudi Arabia, region and the world.

Mission:

To aim for design perfection and expanding our market-share by enhancing our marketing, satisfying customer requirements, complying with the international quality standards and consistently sustaining our improvement program.

Values:

Our values reflect who we are and our reason for being.

Quality: We provide exquisite products that deliver exceptional values to our customer.

Integrity: We boost the highest integrity in all of our activities and operations.

Customer commitment: we develop positive relationships that make a beneficial influence on our client's business.

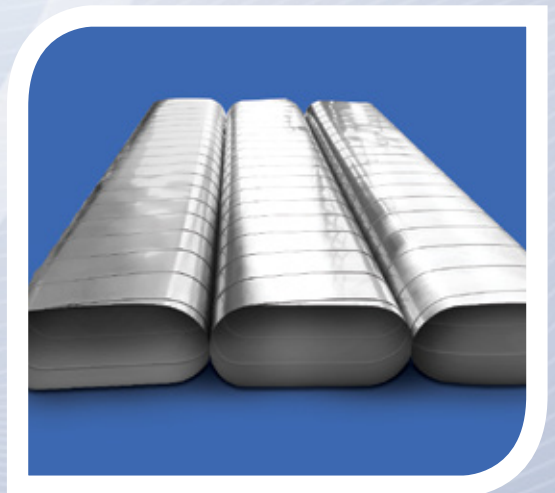
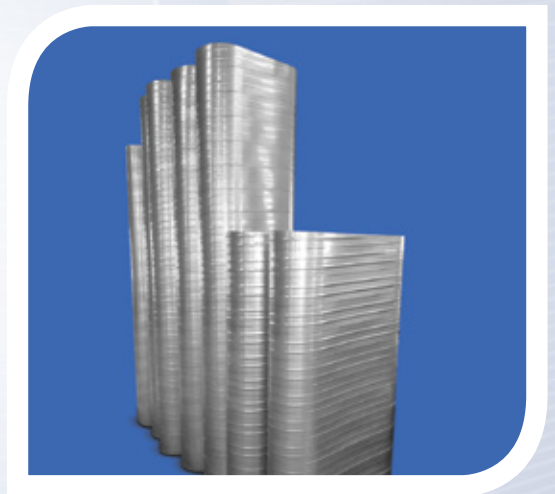
Teamwork: We work together across boundaries to meet the expectations of our customers and support the company to win.

A Will To Win: We exhibit a strong will to win in the marketplace and every aspect of our business.

Respect for people: We value our people, encourage their development and reward their performance.

Good residents: We are good residents in the communities in which we live and work.

Personal Accountability: We are personally accountable for delivering on our commitment.





OVAL DUCT SYSTEMS

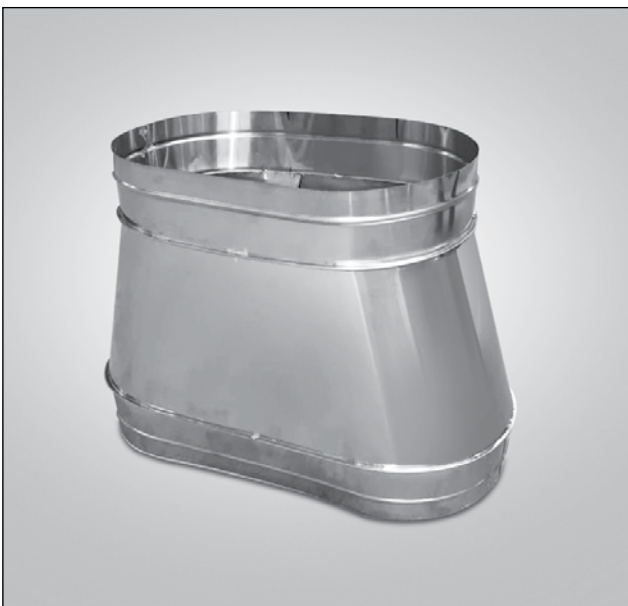
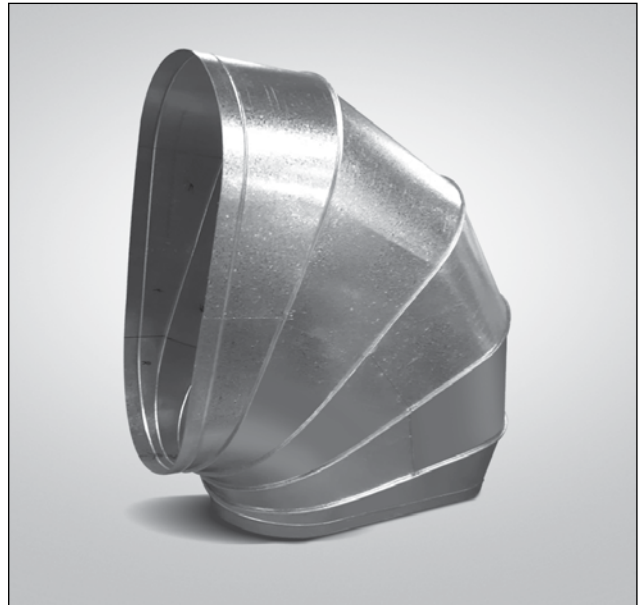
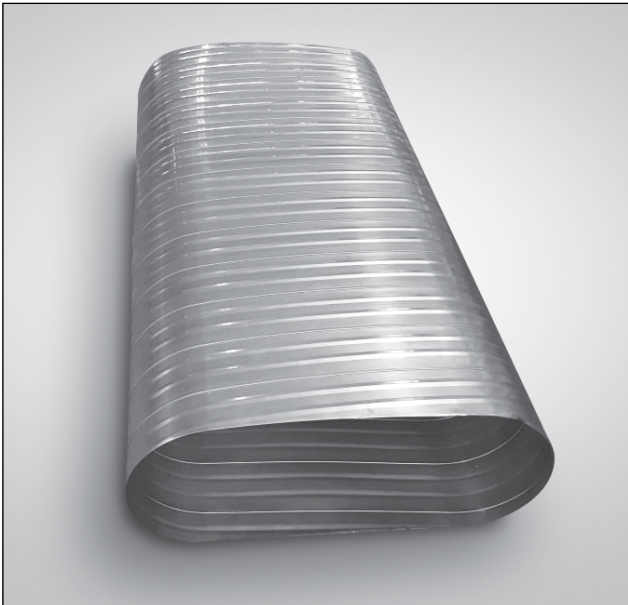
Oval duct combines the advantages of round duct and rectangular duct because it may fit in spaces where there is not enough room for round duct, and it can be joined using the techniques of round duct assembly.

Spiral 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.

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 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 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 oval. The tap of the 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 oval body, a transition can be made from oval to round, providing an equivalent area at the base of the transition.

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





CONSTRUCTION STANDARDS

Oval Duct sizes

MINOR AXIS

SPIRAL SIZE	150	200	250	300	350	400	450	500	550	600	700	800
315	420											
350	470	443										
355	480	450										
400	550	520	495	465								
450	630	603	575	545	518							
500	710	680	652	623	595	565						
560	805	775	748	720	690	663	635					
600	865	838	810	780	753	725	695	665				
630	915	885	855	828	800	770	740	715				
650	945	915	890	860	830	803	775	746	715			
700	1025	995	968	940	910	883	855	825	795			
750	1105	1075	1048	1020	990	963	935	905	875	848		
800	1185	1158	1130	1100	1070	1045	1015	985	958	930		
850	1265	1235	1205	1180	1150	1120	1093	1065	1035	1005	950	
900	1343	1315	1285	1255	1230	1200	1170	1143	1115	1085	1030	
950	1420	1395	1365	1335	1308	1280	1250	1220	1195	1165	1108	1050
1000	1500	1475	1445	1415	1388	1360	1330	1300	1275	1245	1188	1130
1050	1580	1550	1525	1495	1465	1438	1410	1380	1350	1325	1260	1210
1100		1630	1603	1575	1545	1515	1488	1460	1430	1403	1345	1290
1150		1710	1680	1653	1625	1595	1565	1538	1510	1480	1425	1365
1200		1788	1760	1730	1703	1675	1645	1615	1588	1560	1503	1445
1250			1838	1810	1780	1753	1723	1695	1665	1638	1580	1525
1300			1920	1888	1860	1830	1800	1775	1745	1715	1660	1600
1350				1965	1935	1910	1880	1850	1820	1795	1735	1680
1400				2045	2015	1985	1955	1930	1900	1870	1815	1760
1450					2093	2065	2035	2005	1980	1950	1890	1835
1500					2170	2140	2110	2085	2055	2025	1970	1925
1550						2220	2190	2160	2135	2105	2050	1990
1600							2275	2245	2215	2190	2130	2075

MAJOR AXIS

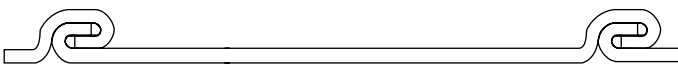


CONSTRUCTION STANDARDS

Construction Standards (as per SMACNA 3 2005rd Edition - 500Pa to 2500Pa Pressure Class)

Major Dimension Duct Width	Spiral Seam Duct		Longitudinal Seam Duct Gauge	Fittings Gauge
	Gauge			
	Gauge	Profile		
500 - 600	24	SPLS	20	20
650 - 900	24	SPLS	20	20
950 - 1200	24	SPLS	18	18
1250 - 1500	22	SPLS	18	18
1550 - 1650	22	SPLS	16	16
1700 - 1800	20	SPLS	16	16
1850 AND ABOVE	18	SPLS	16	16

Profiles:



Spiral lock seam (SPLS)



Butt-welded seam

Standard Length

Spiral Seam Duct = 3 meters

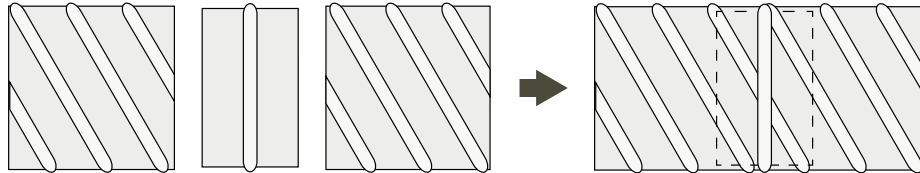
Longitudinal Seam Duct = 1.2 meter



INSTALLATION

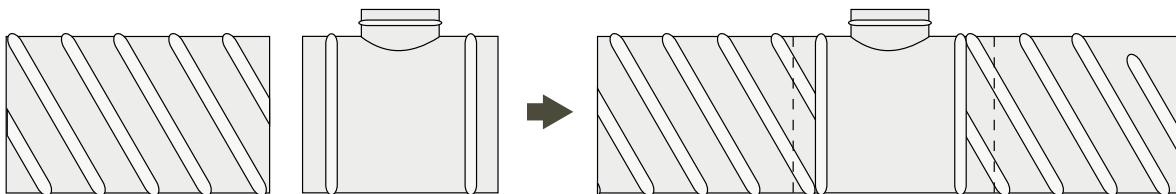
Installation of slip joint connectors

Duct-to-joint connections are made by using a duct coupling that slips inside the duct sections.



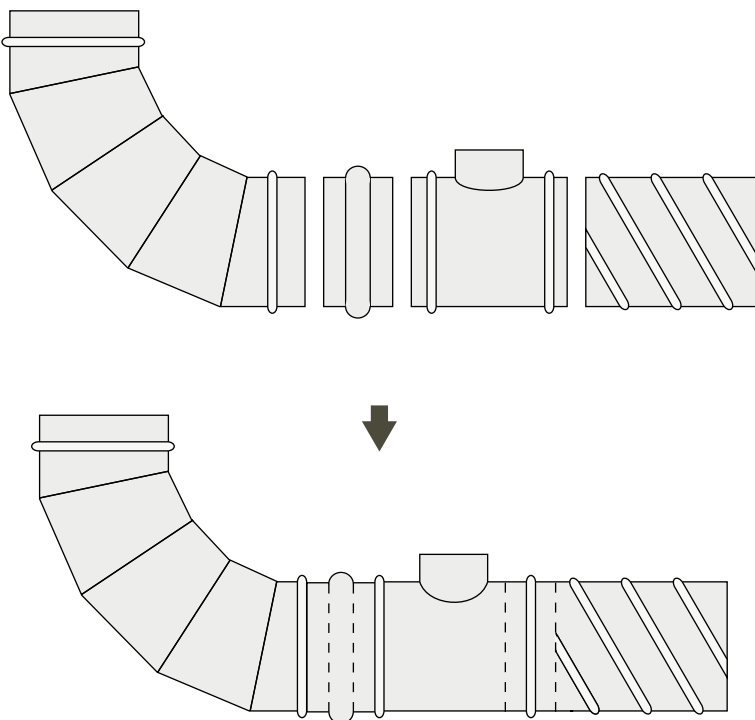
Duct-to-fitting connections

Duct-to-fitting connections are made by slipping the fitting collar into the duct.

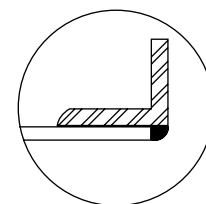
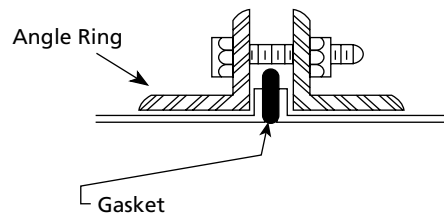


Fitting-to-fitting connections

Duct-to-fitting connections are made by slipping the fitting collar into the duct.



Option Companion Angle

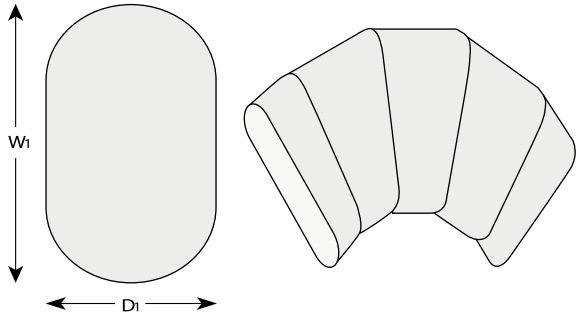


Companion Angle
(Weld to Duct)

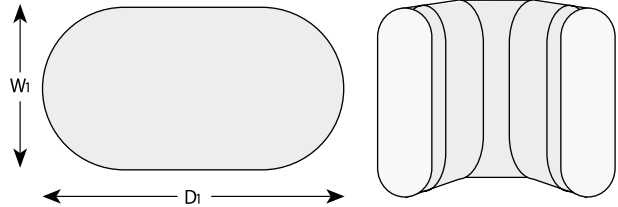


Single Wall Oval Ducts

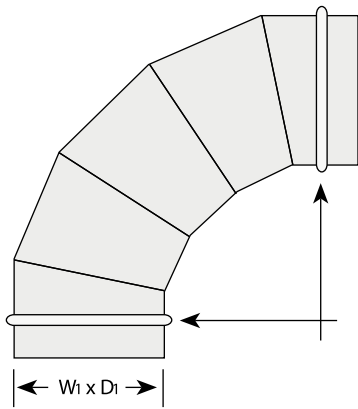
HB (HARD BEND)



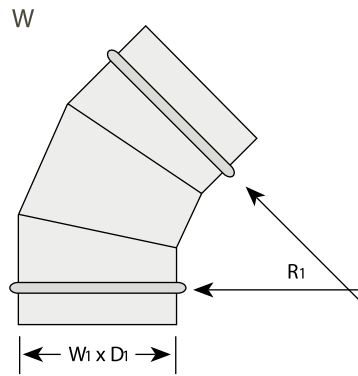
EB (EASY BEND)



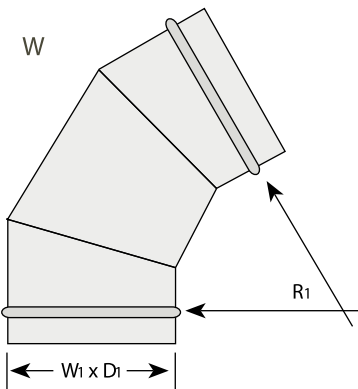
E90 (90 5-PC. ELBOW)



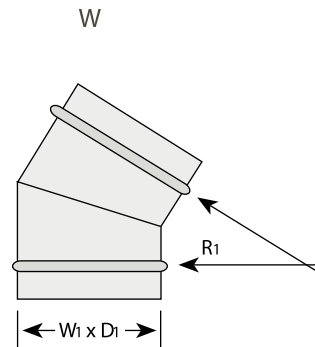
E45 (45 3-PIECE ELBOW)



E60 (60 3-PC. ELBOW)



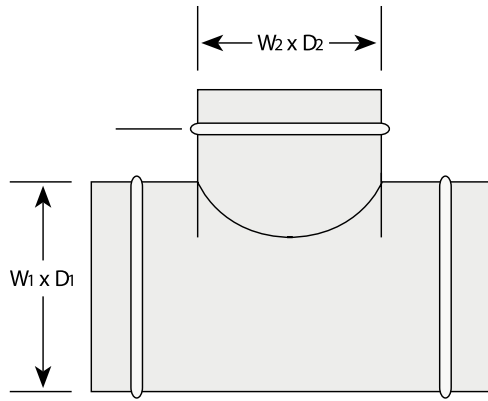
E22/E45 (15 & 30 2-PIECE ELBOW)



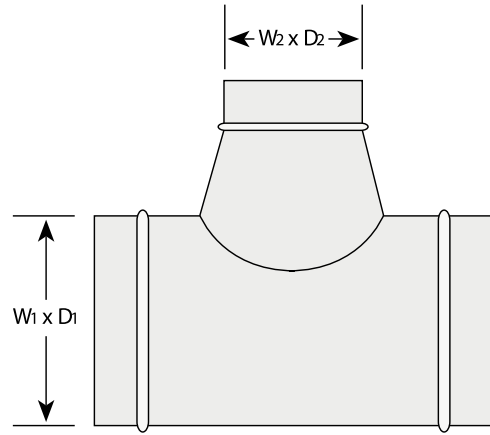


Single Wall Oval Ducts

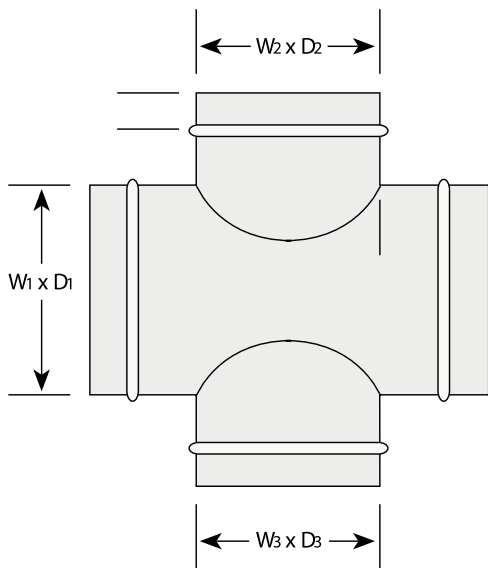
T (TEE)



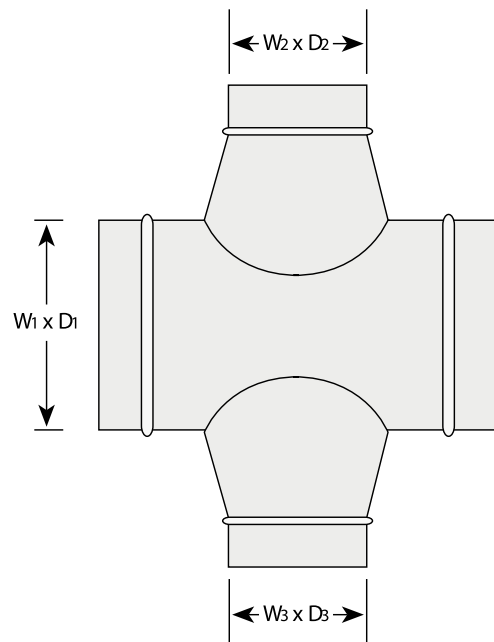
CT (CONICAL TEE)



TX (TEE CROSS)



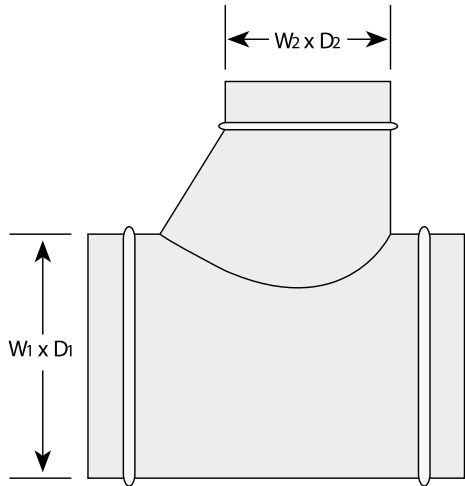
CTX (CONICAL CROSS)



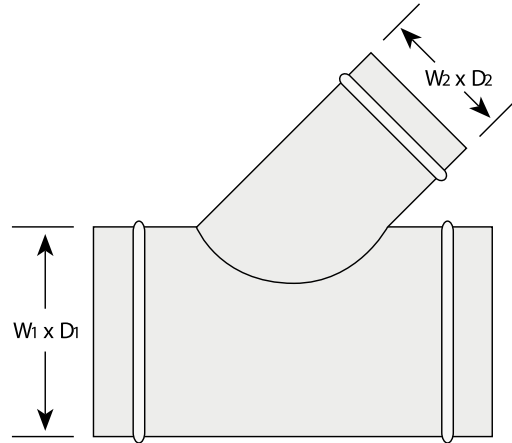


Single Wall Oval Ducts

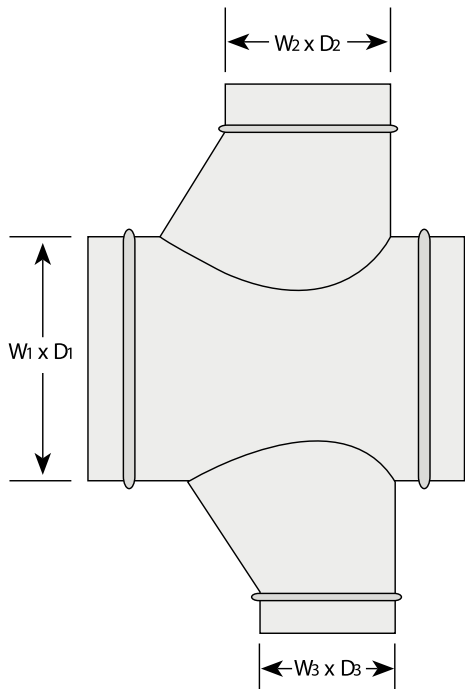
ST (SHOE TEE)



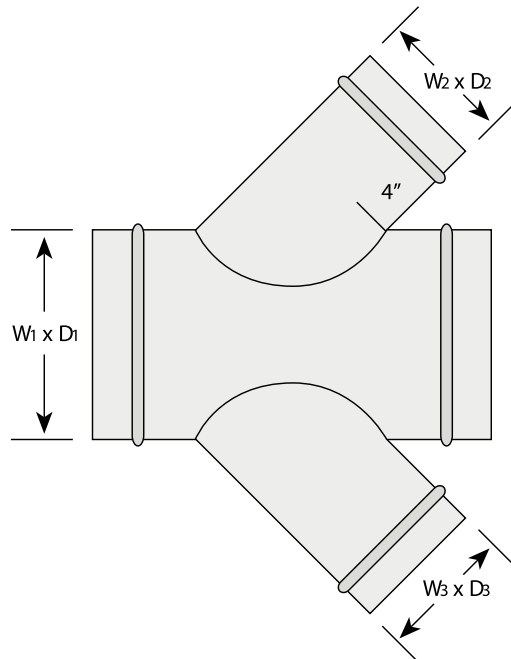
L (45 LATERAL)



STX (SHOE TEE CROSS)



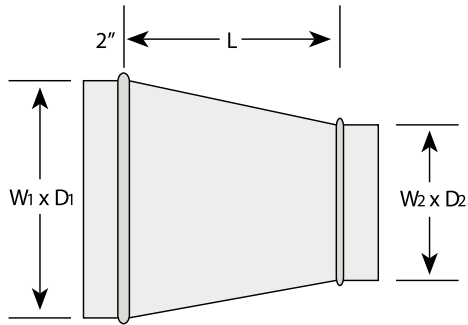
LX (45 LATERAL CROSS)



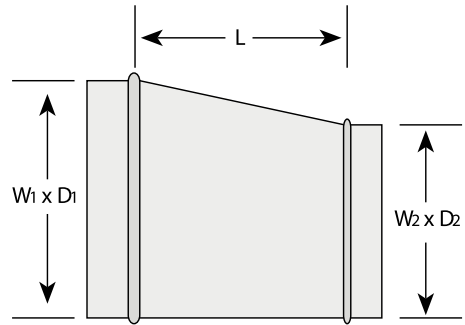


Single Wall Oval Ducts

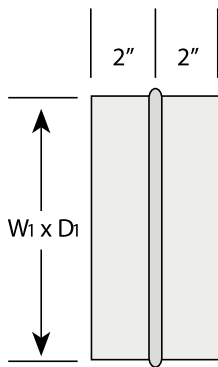
RDC (CONCENTRIC REDUCER)



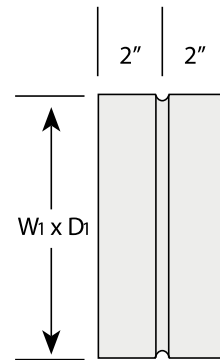
RDE (ECCENTRIC REDUCER)



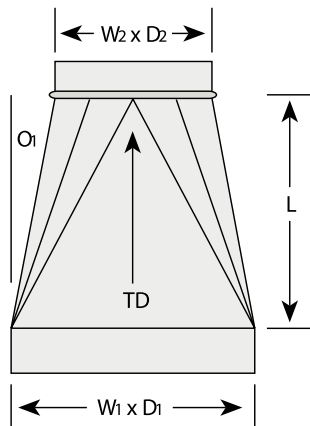
PC (PIPE COUPLING)



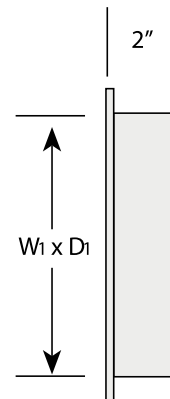
FC (FITTING COUPLING)



RTR (RECTANGLE TO ROUND)



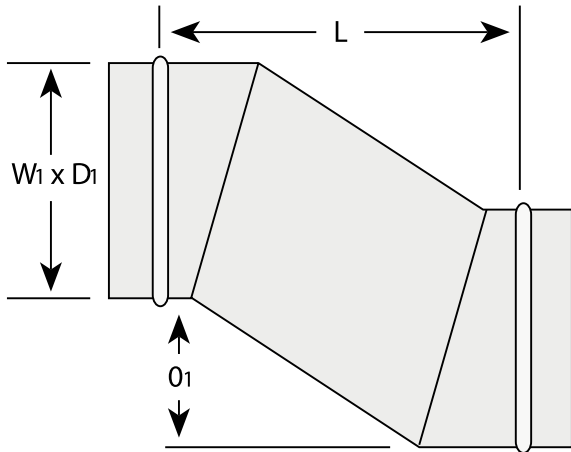
EC (END CAP)



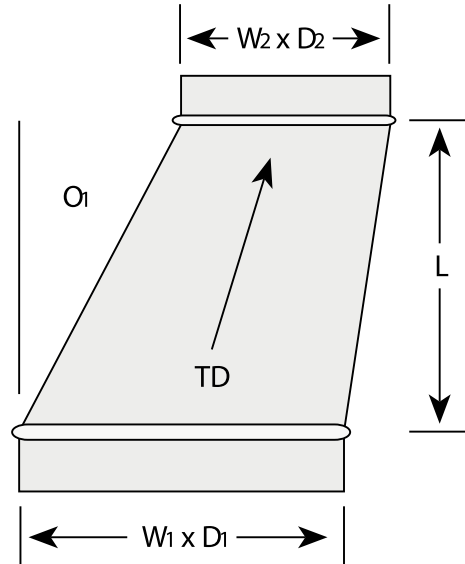


Single Wall Oval Ducts

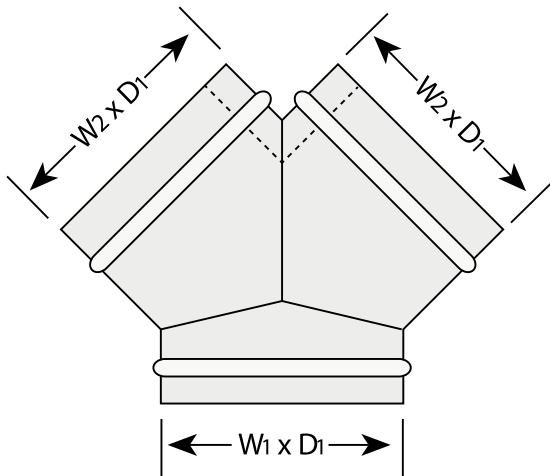
SET (OFFSET)



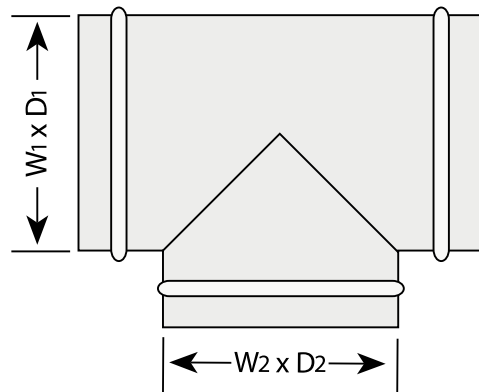
ROET (ROUND TO ROUND)



Y45 (Y BRANCH)



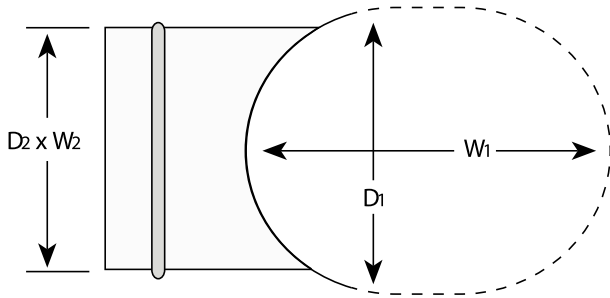
BHT/BHTV (BULL HEAD TEE With or without vanes.)



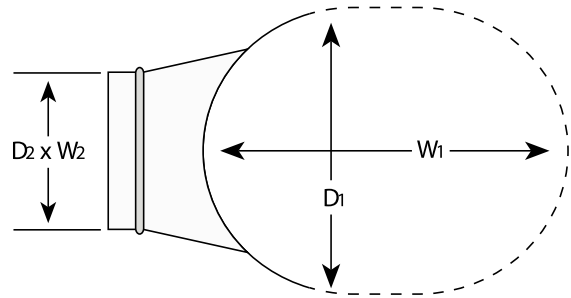


Single Wall Oval Ducts

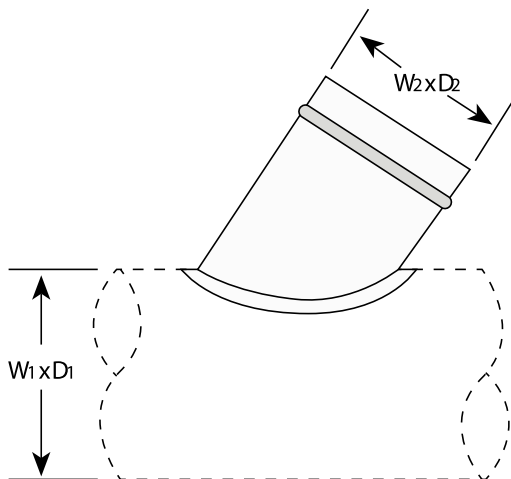
TAP 90 (TAP)



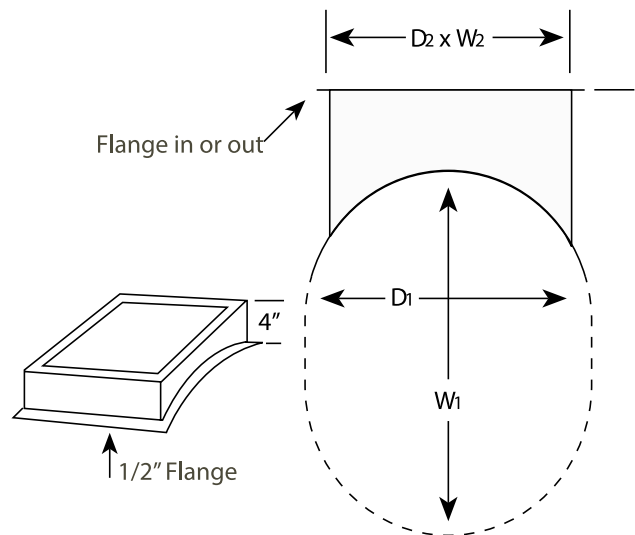
CTAP 90 (CONICAL TAP)



TAP 45 (LATERAL TAP)



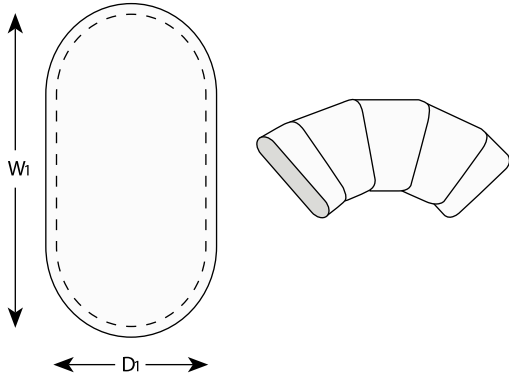
RECTAP (REGISTER TAP)



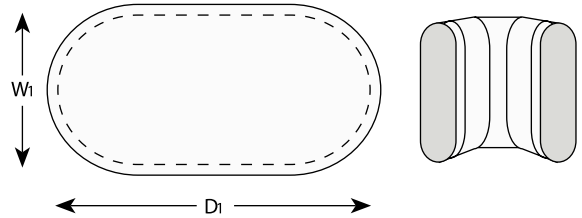


Double Wall Oval Ducts

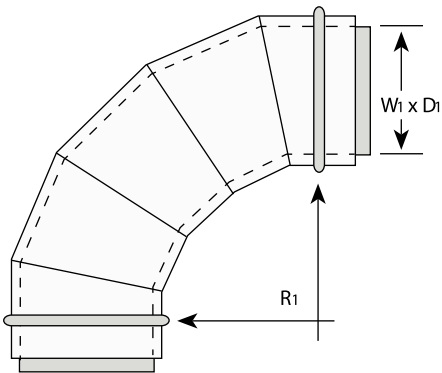
HB (HARD BEND)



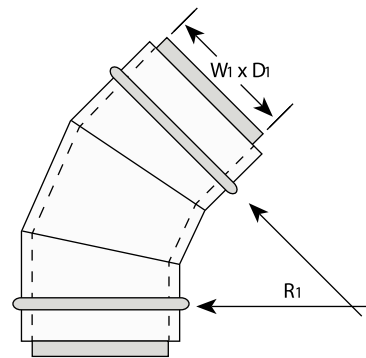
EB (EASY BEND)



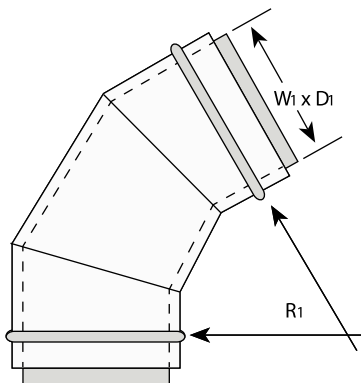
E90 (90 5-PC. ELBOW)



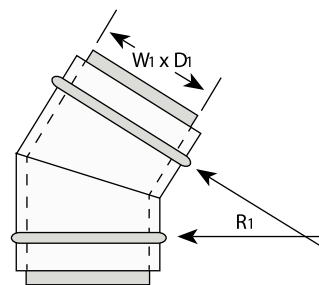
E45 (45 3-PIECE ELBOW)



E60 (60 3-PC. ELBOW)



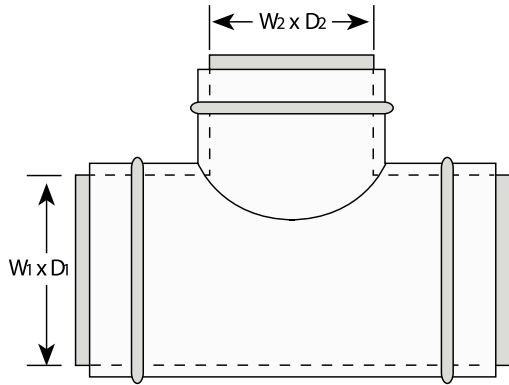
E22/E45 (15 & 30 2-PIECE ELBOW)



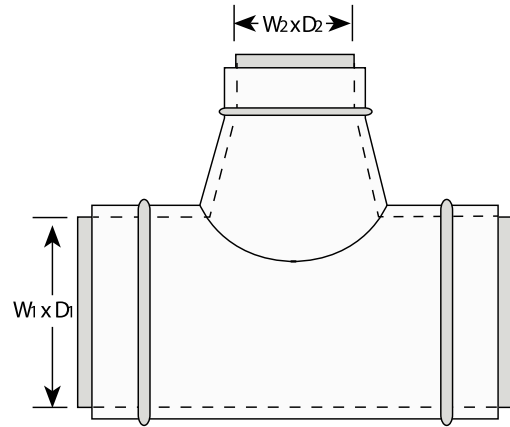


Double Wall Oval Ducts

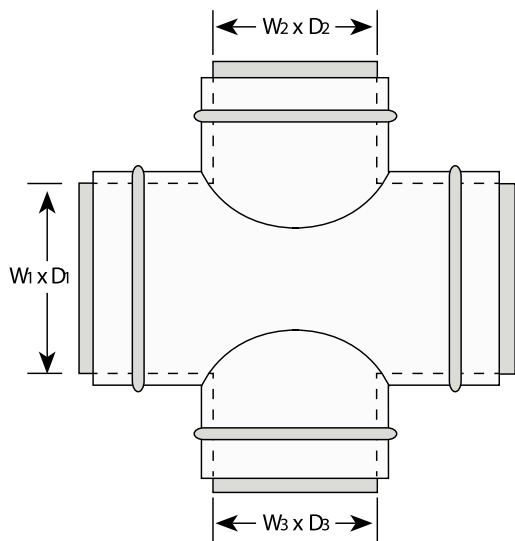
T (TEE)



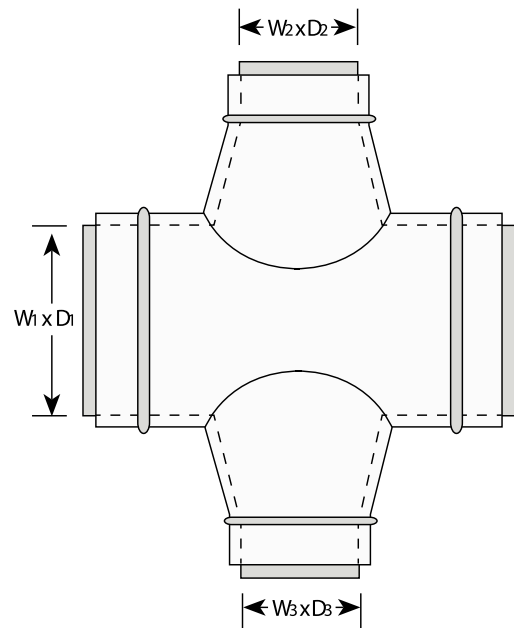
CT (CONICAL TEE)



TX (TEE CROSS)



CTX (CONICAL CROSS)

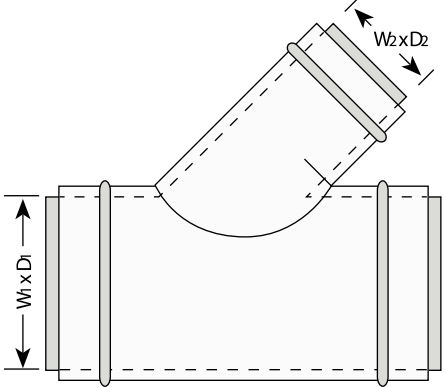
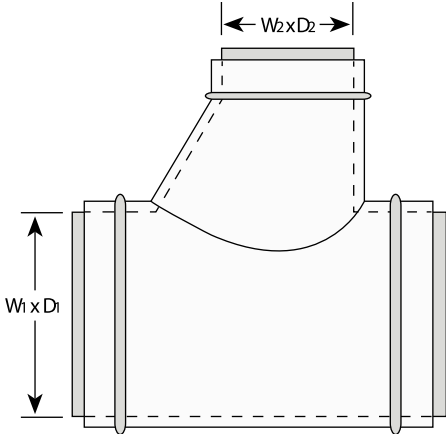




Double Wall Oval Ducts

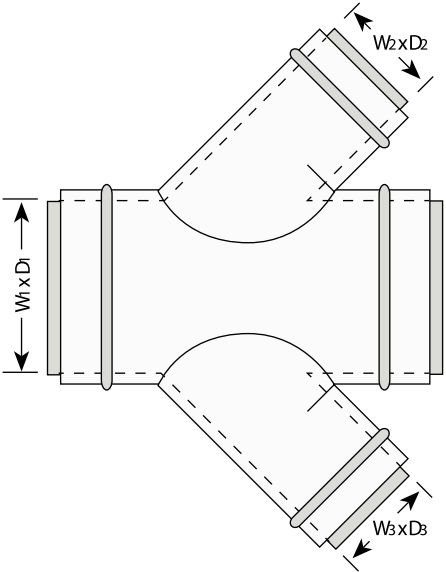
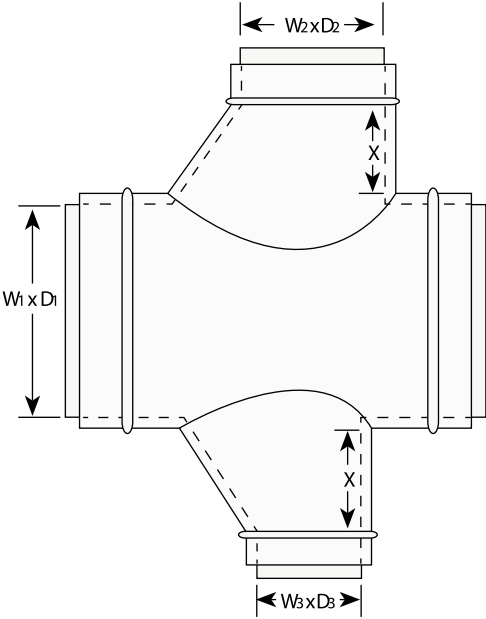
ST (SHOE TEE)

L (45 LATERAL)



STX (SHOE TEE CROSS)

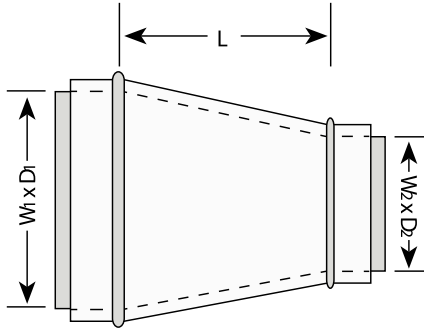
LX (45 LATERAL CROSS)



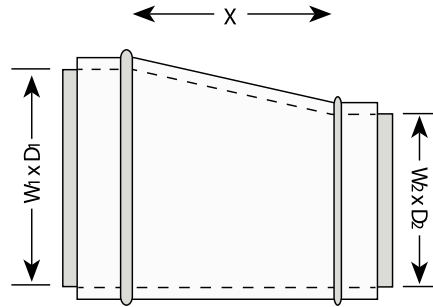


Double Wall Oval Ducts

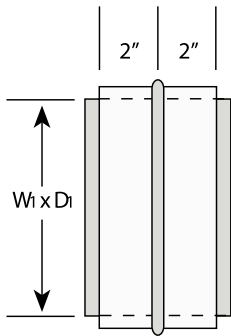
RDC (CONCENTRIC REDUCER)



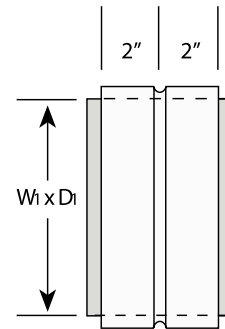
RDE (ECCENTRIC REDUCER)



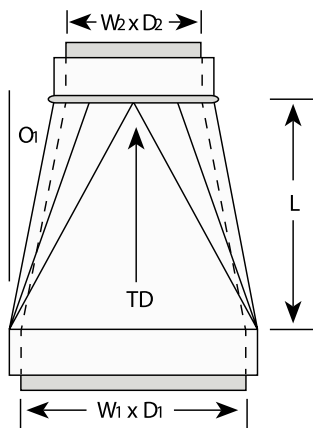
PC (PIPE COUPLING)



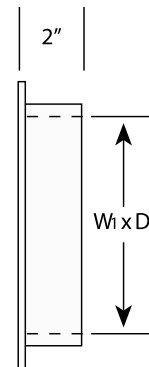
FC (FITTING COUPLING)



RTR (RECTANGLE TO ROUND)



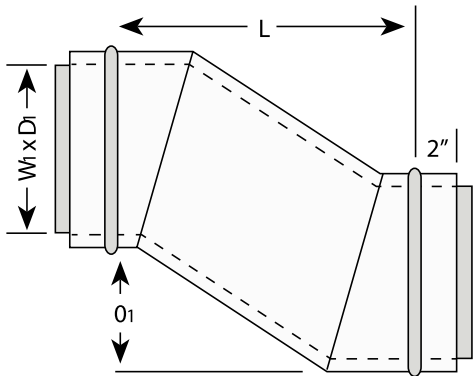
EC (END CAP)



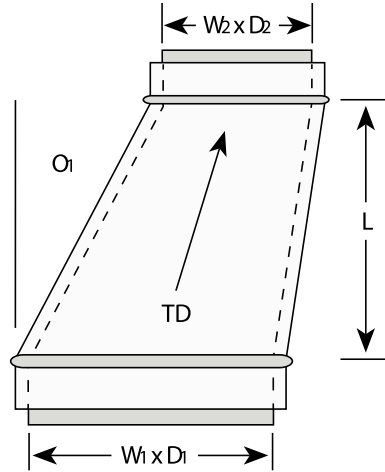


Double Wall Oval Ducts

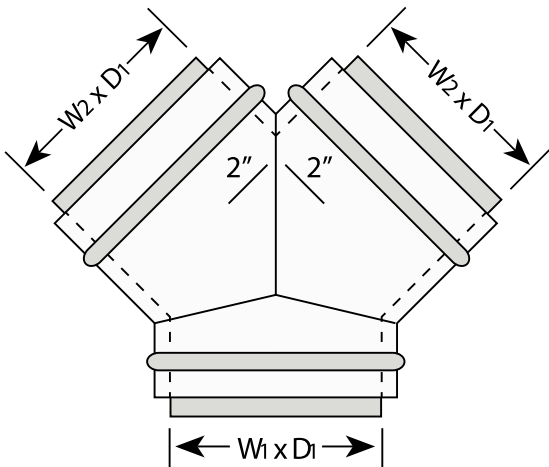
SET (OFFSET)



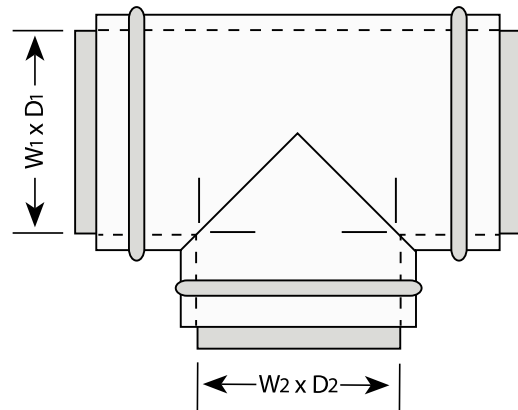
ROET (ROUND TO ROUND)



Y45 (Y BRANCH)



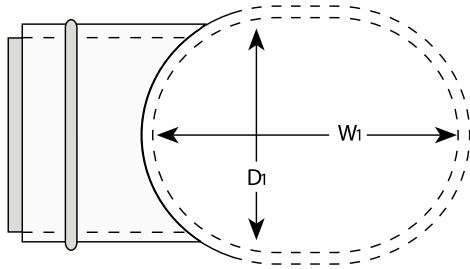
BHT/BHTV (BULL HEAD TEE With or without vanes.)



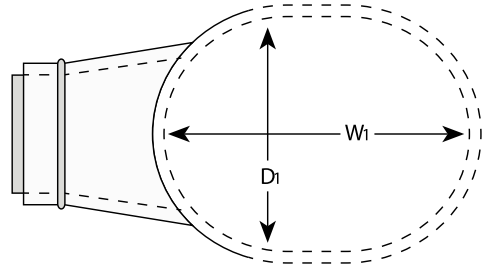


Double Wall Oval Ducts

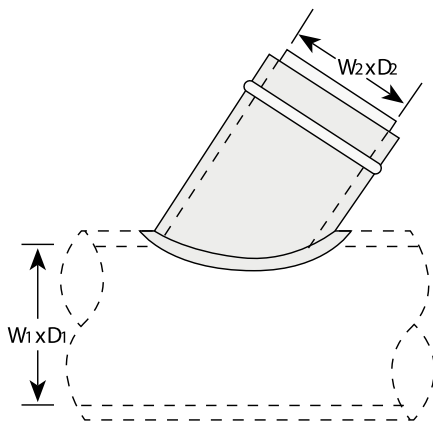
TAP 90 (TAP)



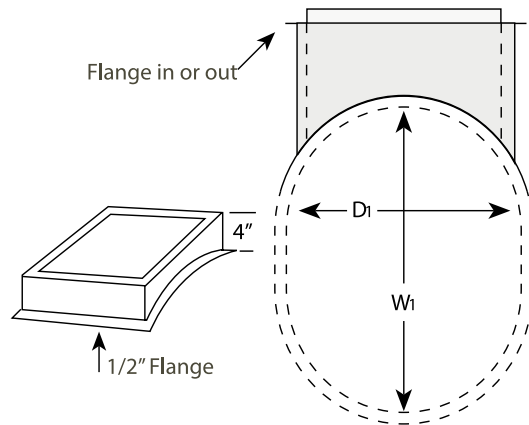
CTAP 90 (CONICAL TAP)

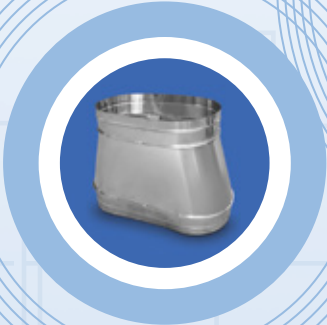
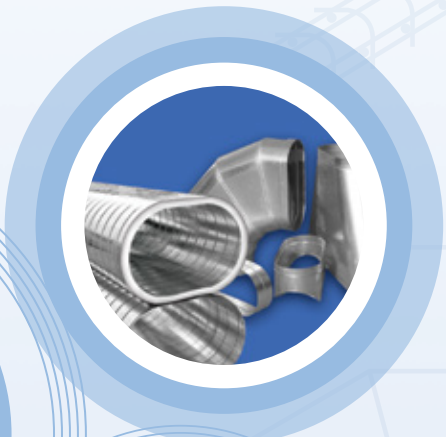
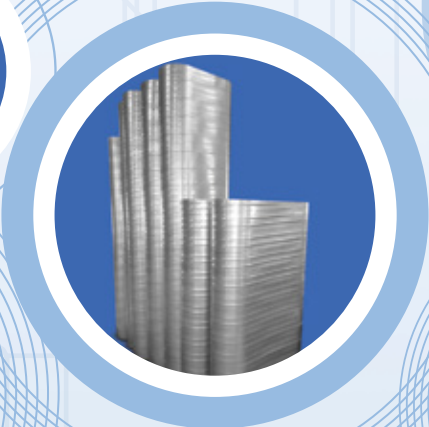
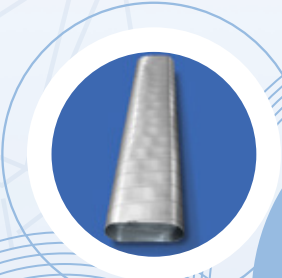
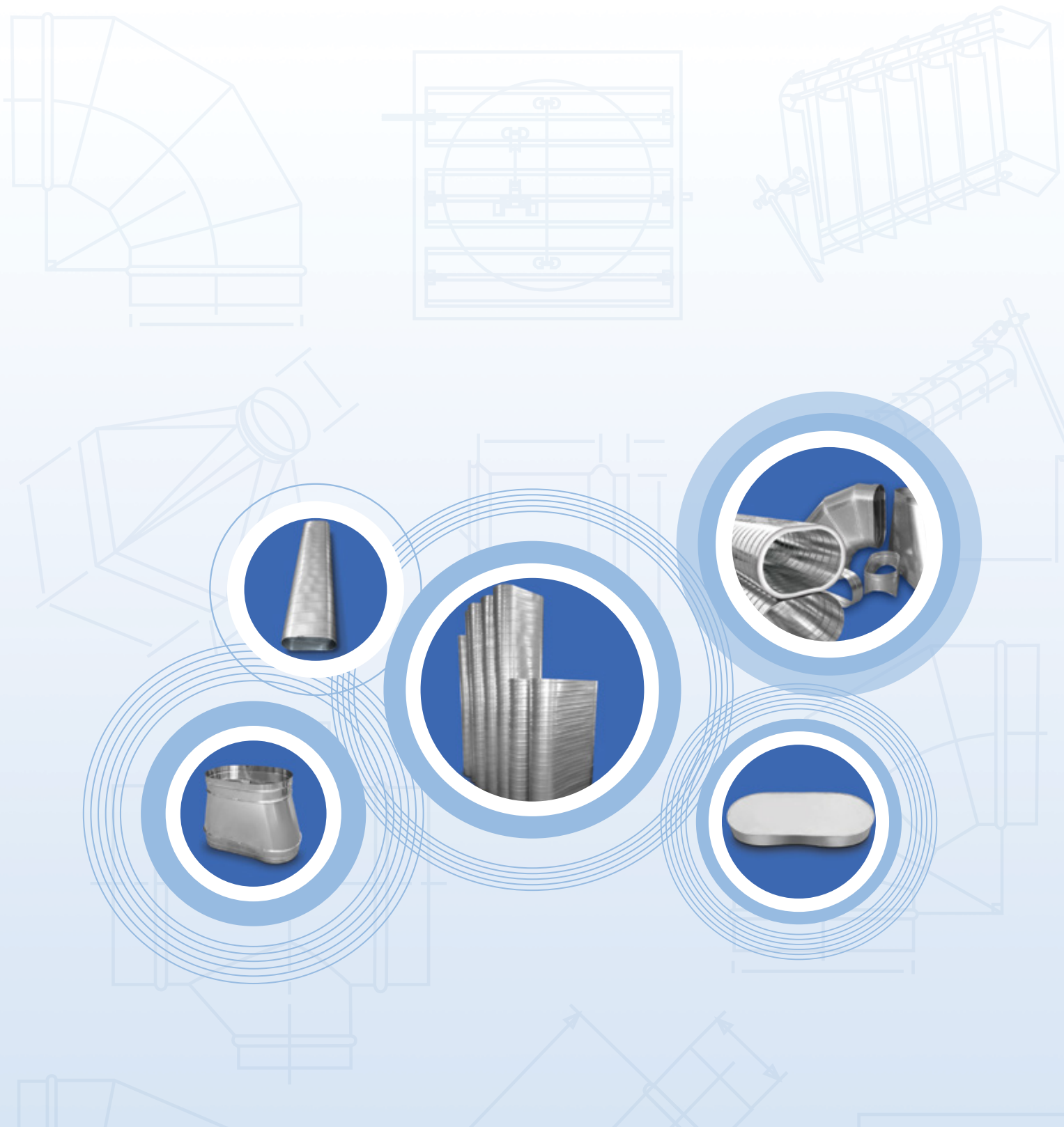


TAP 45 (LATERAL TAP)



RECTAP (REGISTER TAP)





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