



Submittal For Single Wall Spiral With-Gasketed Fittings

Project Name: _____

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SUBMITTAL **Single Wall Spiral**

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SPECIAL NOTES:

- **SUBMITAL** = INCLUDES ALL AVAILABLE MATERIALS, CONNECTIONS AND PRESSURE CLASSES REFERANCE OUR FABRICATION FORM FOR PROJECT SPECIFIC DUCTWORK INFORMATION. LISTED AS PAGE 1
- **FABRICATION** = ALL DUCTWORK IS FABRICATED PER SMACNA STANDARDS AND / PROJECT SPECIFICATIONS
- **MATERIALS FOR PAINTING** = RECOMMENDED MATERIAL FOR PAINTED SPIRAL DUCT = PAINT GRIP, HOWEVER GALVANIZED G90 CAN EASILY BE PAINTED WITH EXTRA PREP WORK.
- **PREP BEFORE PAINTING** = WE RECOMMENDED WIPING DOWN MINIMAL EXCESS LUBRICANT TWICE BEFORE PAINTING WITH DRY RAGS. IN ADDITION, WIPE DOWN WITH NO RINSE PREPAINT CLEANER #13158 (SHERWIN WILLIAMS) BEFORE APPLYING TWO COATS METAL PRIMER.
- **PAINT AND PRIMER** = ALL PRIMER AND PAINT SHOULD BE LABELED TO ADHERE TO METAL PAINTING APPLICATIONS. FOLLOW PAINT MANUFACTURERS APPLICATION PROCEDURES, TEMPERATURE, HUMIDITY, SURFACE PREP WORK, ETC.
- **CAUTION** = IF A STEEL CABLE HANGING SYSTEM IS USED TO SUSPEND DUCT WORK, DO NOT APPLY PAINT, LUBRICANTS, OR OTHER COATINGS TO THE HANGING SYSTEM. FOLLOW HANING SYSTEM MANUFACTURERS INSTRUCTIONS
- **TESTING** = OUR SPIRAL DUCTWORK HAS BEEN EXTENSIVELY AIR TESTED FOR LOW, MEDIUM, & HIGH PRESSURES.
- **SEAMS** = LONGITUDINAL SEAMS ARE ALL STITCH WELDED ON FITTINGS.
- **GAUGES** = METAL GAUGES ARE PRESSURE CLASS DRIVEN FROM LATEST SMACNA STANDARDS
- **SEALANT** = PROPER SEALING OF ALL COMPONENTS ESSPECIALLY CONNECTIONS. IS REQUIRED TO AVOID DARK AIR STREAKS AFTER INSTALLATION.
- **MATERIAL** = GALVANIZED, PAINT GRIP, SS304, SS316, PVC 4X4, ALUMINUM
- **WATER PROOF** = SPIRAL SEAM DUCT WORK IS NOT CONSTRUCTED TO BE WATER PROFF



PRESSURE CLASSES

POSITIVE PRESSURE

2005 SMACNA +10WG -6WG

Diameter	Fittings	Spiral
3-9	28	28
9-14	28	28
15-18	26	26
19-24	24	26
25-42	22	24
43-50	20	22

GALV, PG, SS, PVC ("Steel")

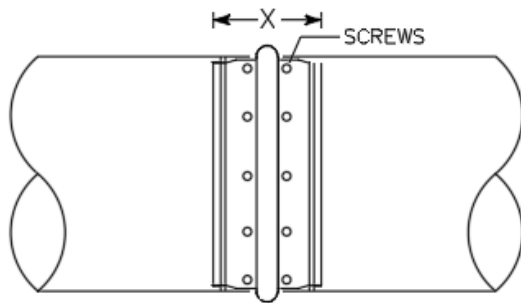
HRANEC PIPE		HRANEC FITTINGS	
Size	Gauge	Size	Gauge
4-18	26	5-20	24
20-28	24	22-36	22
30-38	22	38-50	20
40-48	20		
50	18		

- **ALL GAUGE AND DIAMETER PIPE WILL BE SPIRAL SEAM**
- **ALL STEEL FITTINGS 24 GAUGE TO 20 GAUGE TO HAVE GORELOCK TRANSVERSE SEAM**
- **ALL STEEL FITTINGS 24 GAUGE TO 20 GAUGE TO HAVE STITCH WELD LONGITUDINAL SEAM**
- **ALL STEEL FITTINGS 18 GAUGE TO 16 GAUGE TO HAVE TACK WELDED AND SEALED TRANSVERSE SEAM**
- **ALL STEEL FITTINGS 18 GAUGE TO 16 GAUGE TO HAVE TACK WELDED AND SEALED LONGITUDINAL SEAM**



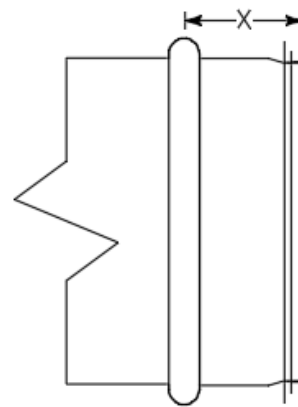
GASKETED CONNECTIONS

- GASKETED SLIP FIT CONNECTIONS-** FITTINGS WILL SLIP INTO TO SPIRAL PIPE. THE GASKET WILL SELF SEAL. SCREWS MUST BE USED TO SECURE THE CONNECTION. SCREWS SHOULD BE PLACED EVERY 10 INCHES AROUND THE DIAMETER.

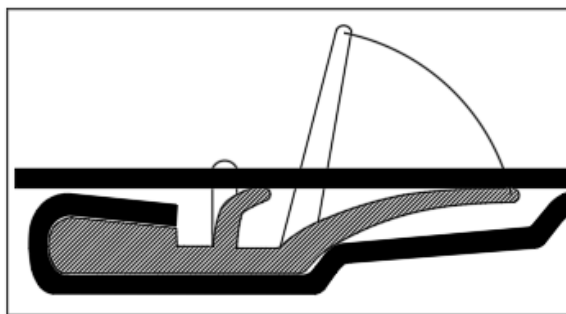


5,6,7"	X=3.31
8,9"	X=3.44
10,11,12,14"	X=5.11
16,18,20,22,24,26"	X=6.69
28,30,32,34,36"	X=8.69
38,40,42,44,46, 48,50"	X=10.06

THE SLIP CONNECTION WILL VARY IN LENGTHS DEPENDING ON FITTING DIAMETER



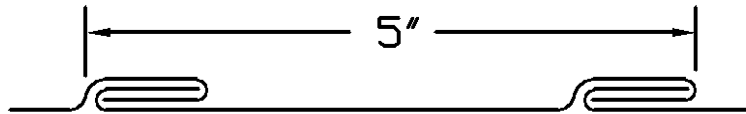
5,6,7"	X=1.3125
8,9"	X=1.375
10,11,12,14"	X=2.21875
16,18,20,22,24,26"	X=3
28,30,32,34,36"	X=4
38,40,42,44,46, 48,50"	X=4.6875



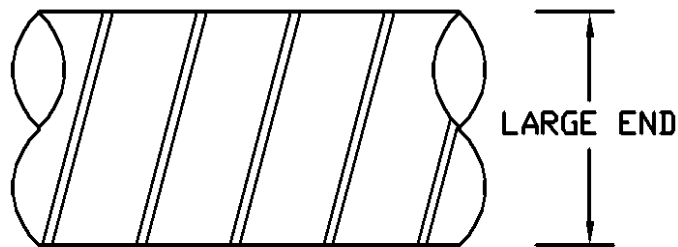
GASKET DETAIL



SPIRAL DUCT



LATERAL SECTION OF 4-PLY PRESSURE PROOF SPIRAL SEAM

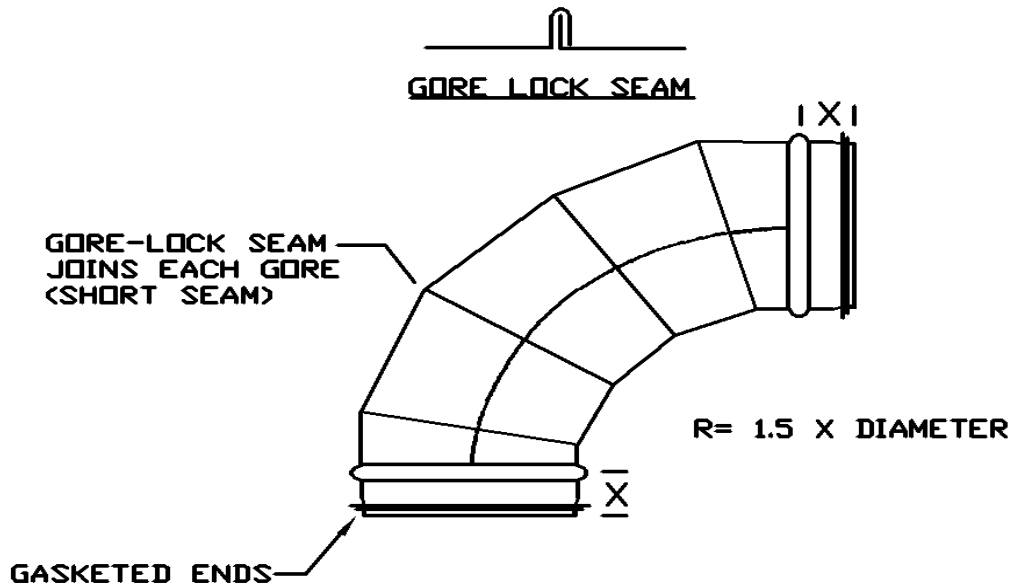


NOTES:

- A. AVAILABLE IN EVEN SIZES 4"Ø THROUGH 50" Ø
- B. AVAILABLE IN ODD SIZES 5"Ø, 7", & 9"Ø
- C. LENGTHS - 6" THROUGH 240" (STANDARD 120")



GORE-LOCK ELBOW

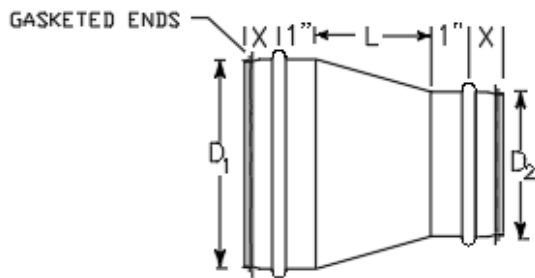


- AVAILABLE IN 5° THROUGH 120°
- SHORT RADIUS ELBOWS ARE CONSIDERED 1 X DIAMETER AND IS CENTERLINE
- OTHER RADIUS ELBOWS ARE AVAILABLE



REDUCERS

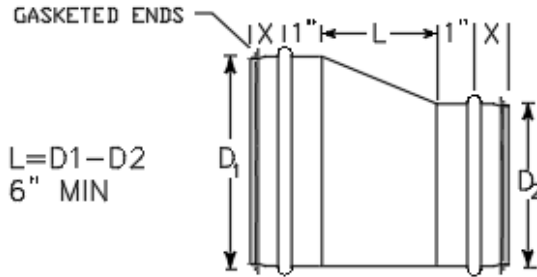
CONCENTRIC REDUCER



$$L = D_1 - D_2$$

6" MIN

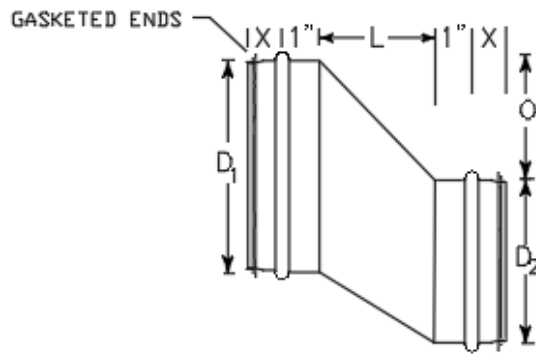
ECCENTRIC REDUCER



$$L = (2)D_1 - D_2$$

6" MIN

OFFSETTING REDUCER

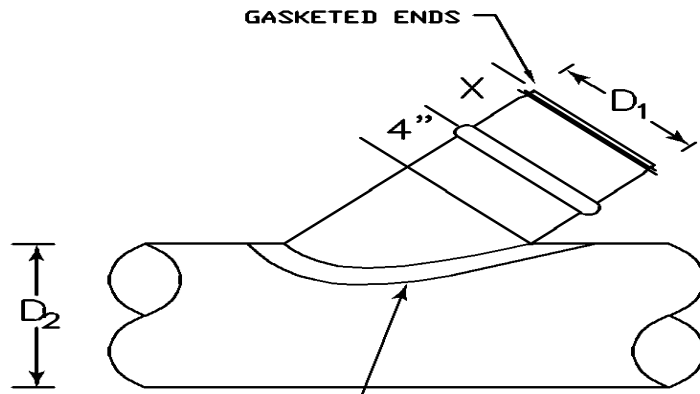


$$L = O \times 3$$

6" MIN

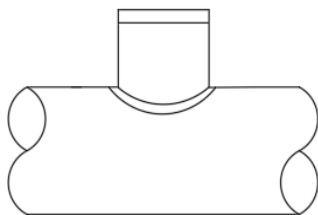


ROUND END SADDLE TAPS

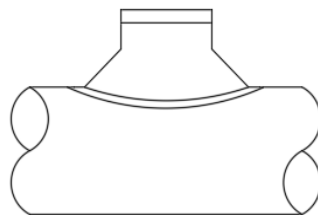


4"-16" = 1/2" FLANGE OUT
 18" AND ABOVE = 2" PLATE WITH 1/2" HEM IN

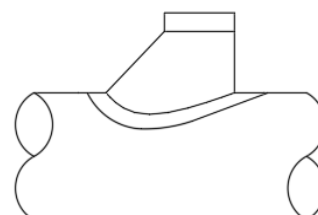
- **STANDARD 45 DEGREE & 90 DEGREE ANGLES. ALTERNATE ANGLES AVAILABLE.**
- **90 DEGREE CONICAL AVAILABLE.**
- **HIGH EFFICIENCY SHOE STYLE AVAILABLE**



90 DEGREE SADDLE



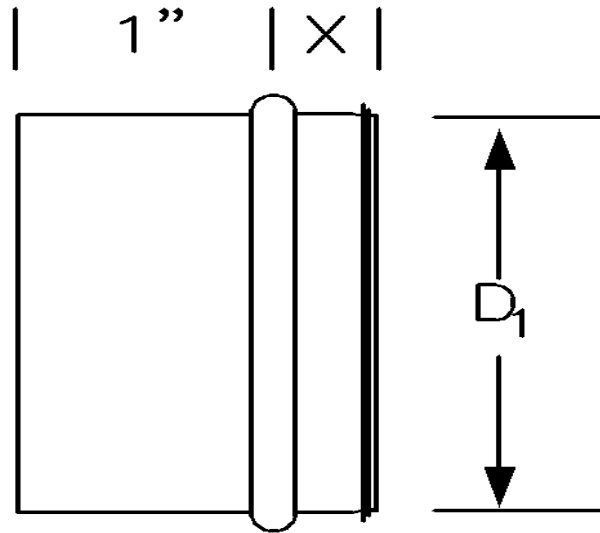
CONICAL SADDLE



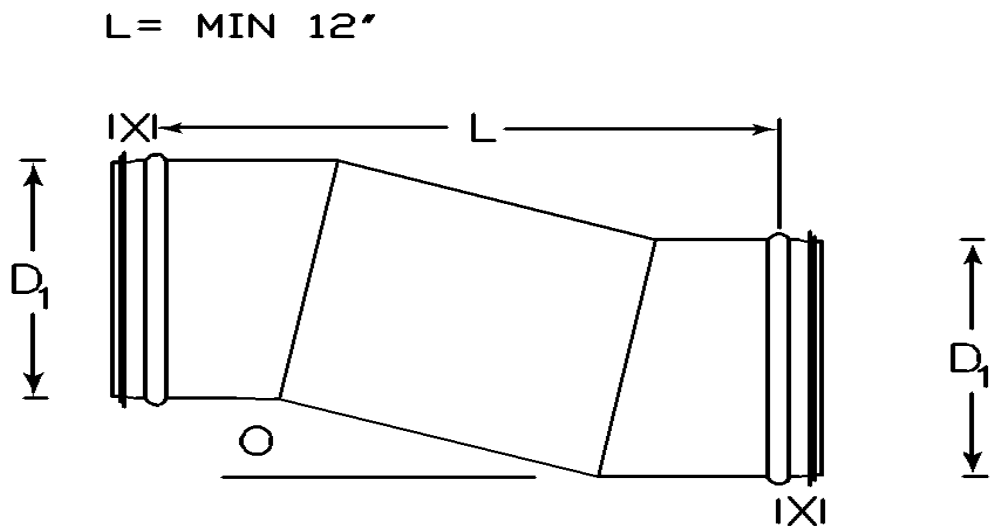
SHOE STYLE SADDLE



END CAPS



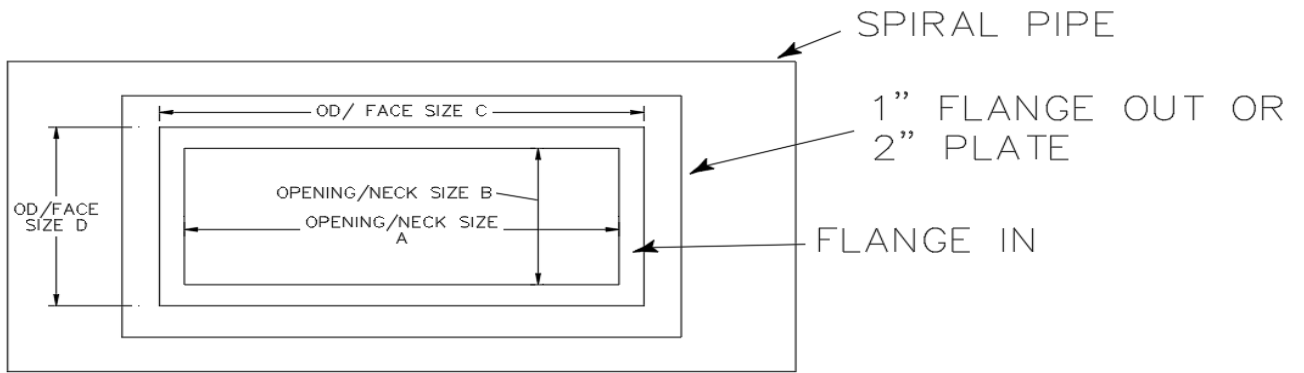
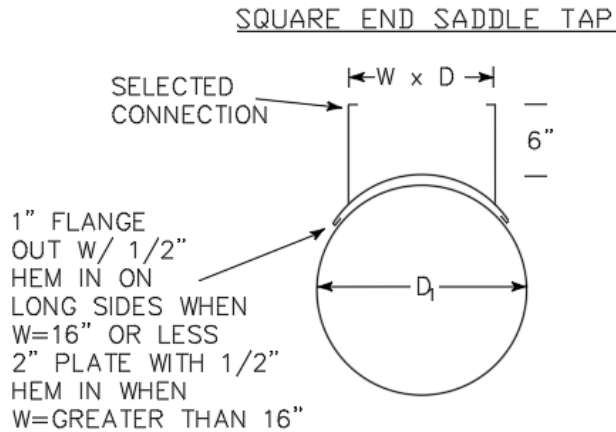
OFFSETS



- LENGTH TWO OR THREE TIMES THE OFFSET



RECTANGULAR END SADDLE TAPS

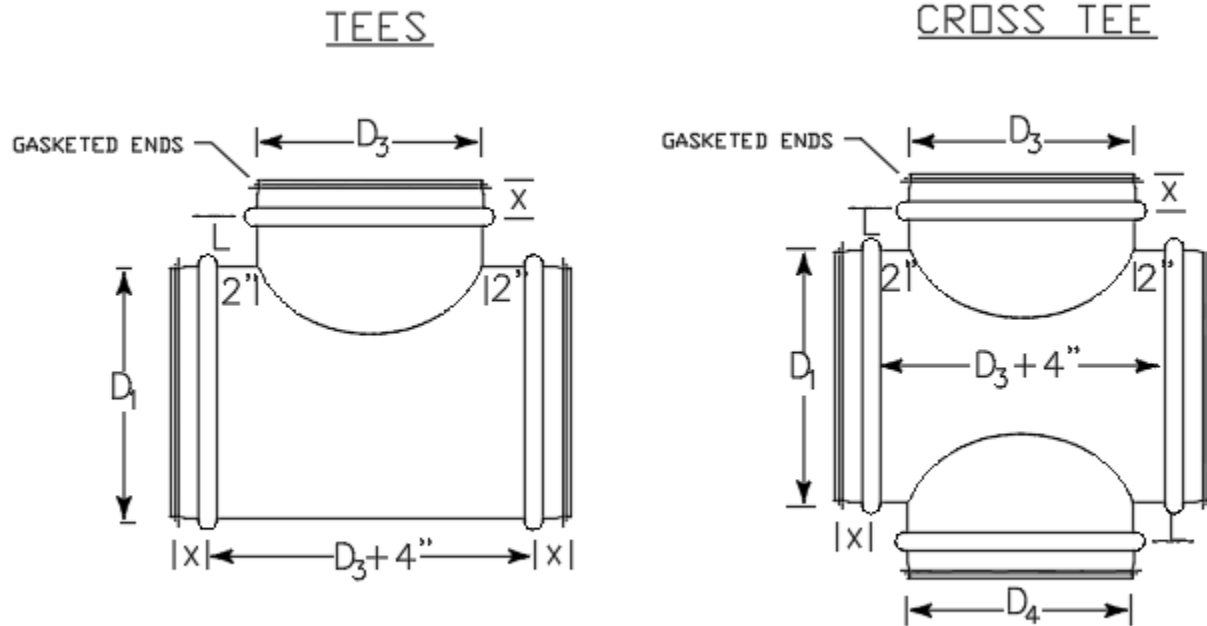


REGISTER BOX SQUARE END SADDLE

- **SPOT WELDED SEAMS USED ON BOXES**
- **STANDARD RECTANGULAR CONNECTION IS FLANGE IN**
- **ALTERNATE CONNECTIONS AVAILABLE: SLIP AND DRIVE, TDC, OR PREMANUFACTURED FLANGE FOR RECTANGULAR END**



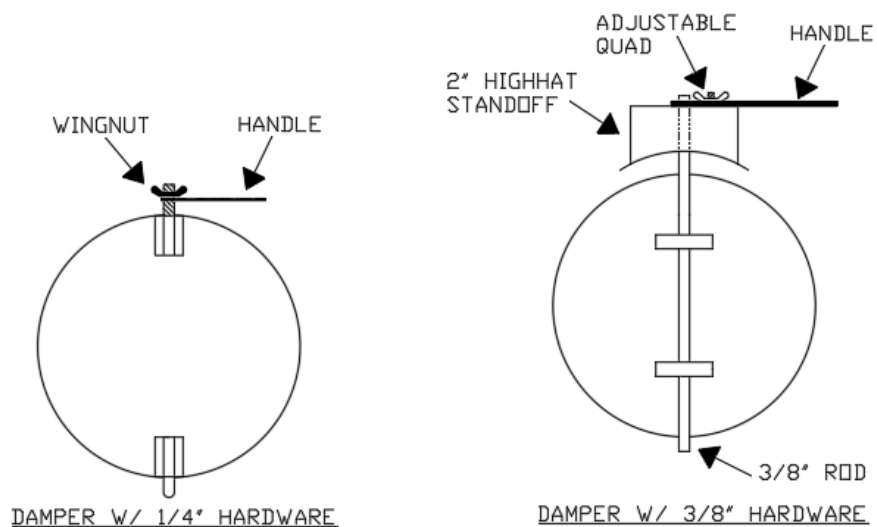
TEES AND CROSSES



- SEALED, TACK WELDED SEAMS, STITCH WELDED LONGITUDINAL SEAMS
- CONICAL, SHOE STYLE, 45 DEGREE LATERAL TEES AND CROSSES AVAILABLE
- REDUCING TEES AND LATERALS ALSO AVAILABLE



ROUND DAMPERS



- **DAMPER AVAILABLE IN SLEEVES, LOOSE, OR INSTALLED IN SPIRAL PIPE AND FITTINGS**
- **DAMPERS UP TO 16" ROUND WILL BE 1/4" HARDWARE**
- **DAMPER 18" AND ABOVE WILL BE 3/8" ROD HARWARE**
- **RAPID STANDOFFS AVAILABLE FOR 1/4" HARDWARE**

