LANGDON INC.

Sure•Seal™ Spiral Pipe & Fittings

9865 WAYNE AVENUE CINCINNATI, OHIO 45215
PHONE (513) 733-5955 FAX (513) 733-8050

http://www.langdonsheetmetal.com

Sure•Seal™ Spiral
Self-Sealing Spiral Ductwork System

The above mentioned product is protected by patents and trade marks. Copyright 2007 • All Rights Reserved

- No messy sealer is required, simply slide the pieces together and secure with gasketed tek screw fasteners #10-16-3/4.
- Self sealing spiral will give you a finished look for exposed areas.
- Available in single wall and double wall
- The advantage of Sure Seal Spiral is a manufactured system with low leakage rates.
- Considerable Energy Savings.

Diameter

Even Sizes 4" to 30"

Static Pressure

2" W.G. Negative to

10" W.G. Positive

EPDM Gasket

Thermal Properties

200° F to -20° F

Gauge

26 - 24 - 22

Materials

Galvanized

Galvanneal

Stainless Steel

Aluminum

PCD (polyvinyl coated duct)

Sure Class Products

Sure•Clamp™ Spiral

Sure•Clamp™ Double Wall

Sure•Clamp™ Access (Round)

Sure•Clamp™ Access (Rect.)

Langdon's Sure•Seal™ Spiral is a single wall self-sealing spiral ductwork system that reduces installation cost. Our new gasketed connection is quick and easy. No messy sealer is required, simply slide the pieces together and secure with gasketed tek screw fasteners #10-16-3/4. Self sealing spiral will give you a finished look for exposed areas. Our patented gasket is a dual lipped profile of EPDM rubber that has been tested (using Langdon's manufactured spiral pipe) from Negative 2" W.G. to Positive 10" W.G. achieving a Class 3 seal rating in accordance with SMACNA HVAC Air Duct Leakage Test Manual (first edition 1985). The EPDM gaskets thermal properties are suitable for use in applications from 200°F to -20°F. Sure•Seal™ Spiral is available in single wall and double wall in even sizes from 4" to 30" diameter, 26 gauge to 22 gauge in galvanized, galvanneal, stainless steel, aluminum and PCD (polyvinyl coated ductwork).Tapes and mastic are conventional choices for sealing ductwork and the most cost effective time to seal ductwork is at installation of system. The cost of restoring systems not receiving the required sealing or not being properly sealed can greatly exceed the cost of a proper application.

The transverse ductwork joint may have up to a 3/16" gap around circumference of the duct that will have to be sealed in field and SMACNA does not recommended that a duct system constructed to 3" wg class or lower be leak tested. Concerns for energy conservation, humidity control, space temperature control, room air movement, necessitate regulating leakage by prescriptive measures in SMANCA Construction Standards. Leakage is largely a function of static pressure and the amount of leakage in a system is significantly related to system size. Adequate airtightness can normally be ensured by a. selecting a static pressure, construction class suitable for the operating condition and b. sealing ductwork properly, if the ductwork system is not properly sealed this will result in air leakage above ceiling, energy loss and higher utility costs. **The advantage of Sure•Seal™ Spiral is a manufactured system with low leakage rates, this eliminates field workmanship, sealant application, leak testing. As a price comparison, the elimination of sealing ductwork in the field would offset any additional manufacturing cost.**

9865 Wayne Avenue • Cincinnati, Ohio 45102 • (513) 733-5955 • (513) 733-8050 Fax

http://www.langdonsheetmetal.com

Sure•Seal™ Spiral Energy Savings

Sure•Seal™ 12" diameter test results

(AirTab International Certified Tab Report 3-18-10, Page 6)

Test results for 10" wg positive pressure had .52 cfm leakage for 100 square feet of 12" dia ductwork

Sure•Seal™ Leakage For 10" Positive Pressure

CFM		$ CFM		$ for 100 sqft	$ for 1,000 sqft	$ for 10,000 sqft	**Leakage**
0.52	X	$5.00	=	**$2.60**	**$26.00**	**$260.00**	**$ per year**

Average cost to heat and cool 1 cfm for 1 year is $ 5.00

SMACNA Construction Standards

SMACNA maximum allowable leakage is 13.50 cfm for 100 square feet of 12" diameter ductwork

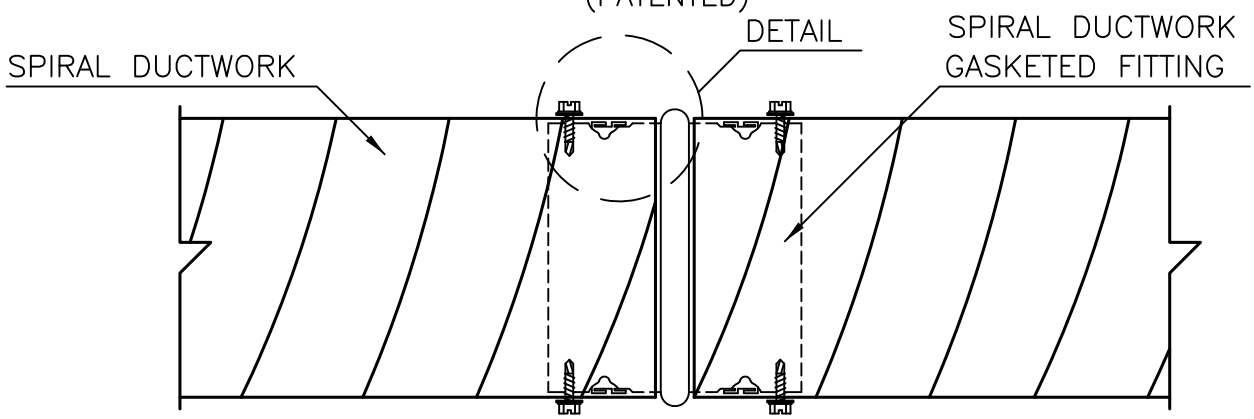
SMACNA Standards Allowable Leakage

CFM		$ CFM		$ for 100 sqft	$ for 1,000 sqft	$ for 10,000 sqft	**Leakage**
13.50	X	$5.00	=	**$67.50**	**$675.00**	**$6,750.00**	**$ per year**

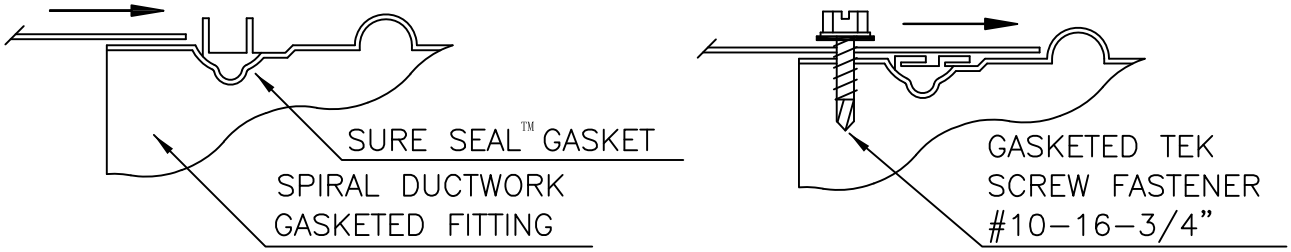
Average cost to heat and cool 1 cfm for 1 year is $ 5.00

Tapes and mastic are conventional choices for sealing ductwork and the most cost effective time to seal ductwork is at installation of system. The cost of restoring systems not receiving the required sealing or not being properly sealed can greatly exceed the cost of a proper application. The transverse ductwork joint may have up to a 3/16" gap around circumference of the duct that will have to be sealed in field and SMACNA does not recommended that a duct system constructed to 3" wg class or lower be leak tested. Concerns for energy conservation, humidity control, space temperature control, room air movement, necessitate regulating leakage by prescriptive measures in SMANCA Construction Standards. *Leakage is largely a function of static pressure and the amount of leakage in a system is significantly related to system size.* Adequate airtightness can normally be ensured by **a.** selecting a static pressure, construction class suitable for the operating condition and **b.** sealing ductwork properly. If the ductwork system is not properly sealed this will result in air leakage above ceiling, energy loss and higher utility costs. **The advantage of Sure•Seal™ Spiral is a manufactured system with low leakage rates, this eliminates field workmanship, sealant application and leak testing.** ***As a price comparison, the elimination of sealing ductwork in the field would offset any additional manufacturing cost.***

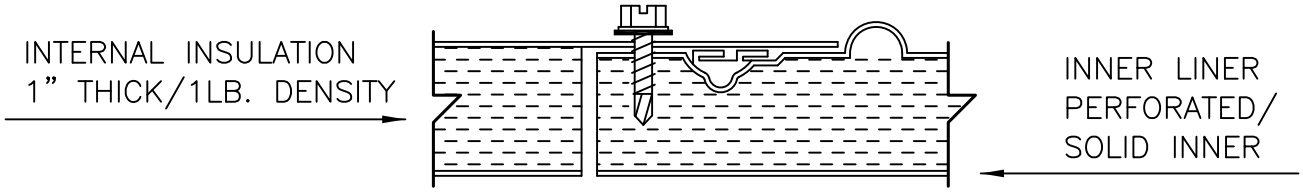
SUBMITTAL
SURE • SEAL™
(PATENTED)



SURE SEAL™ DETAIL
SINGLE WALL SPIRAL DUCTWORK



SURE SEAL™ DETAIL
DOUBLE WALL SPIRAL DUCTWORK



PROFILE
EPDM RUBBER GASKET

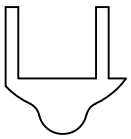
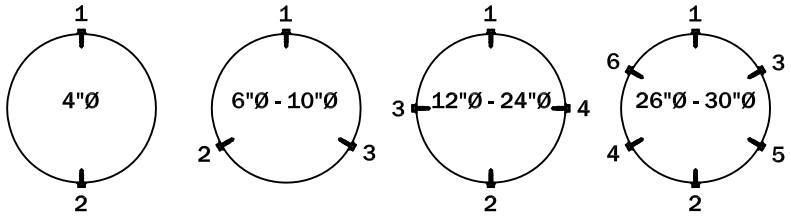


DIAGRAM BELOW SHOWS TEK SCREW
QUANTITY AND PLACEMENT SEQUENCE



SURE SEAL™ SPIRAL DUCTWORK 4"–30" ROUND DUCTWORK GAUGE UNREINFORCED **POSITIVE PRESSURE TO 10" W.G.**			
DIAMETER	FITTING	DIAMETER	SPIRAL
4"–20"	24 GAUGE	4"–24"	26 GAUGE
21"–30"	22 GAUGE	25"–30"	24 GAUGE

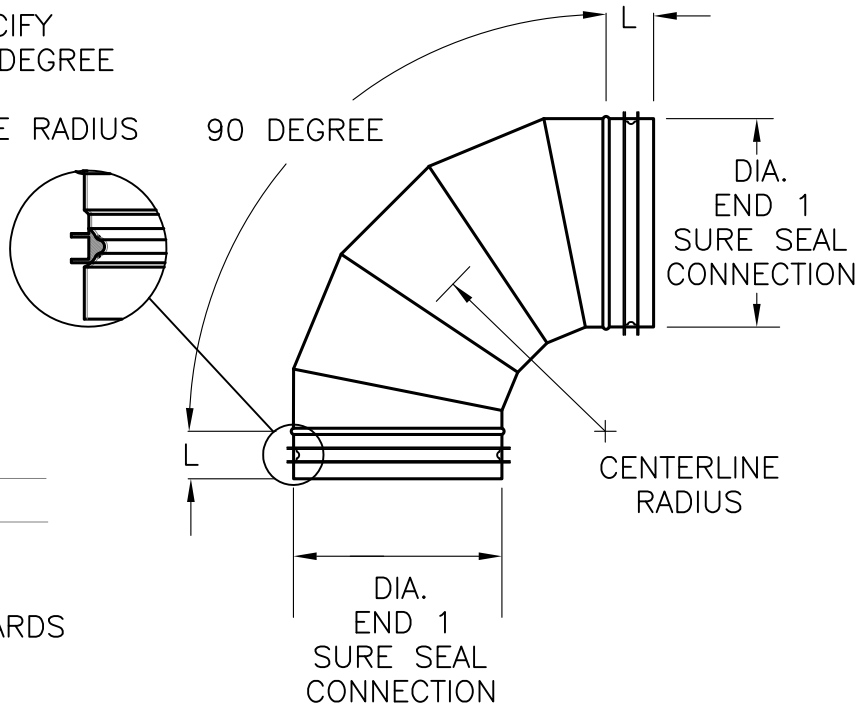
MATERIAL, GALVANIZED, GALVANNEALED,
STAINLESS STEEL, PVC COATED.

www.langdonsheetmetal.com

Cincinnati, Ohio. 45215

SUBMITTAL
SURE • SEAL SPIRAL FITTINGS
(PATENTED)
#52 ELBOWS

*SPECIFY
CUSTOM DEGREE
&
CENTERLINE RADIUS



SYSTEM NUMBER/AREA : _____
MATERIAL/STATIC WG : _____

FABRICATE IN ACCORDANCE WITH
SMACNA DUCT CONSTRUCTION STANDARDS

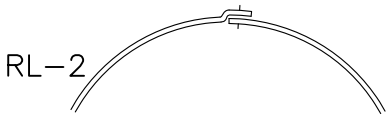
TRANSVERSE JOINT

SMALL END SLIP CONNECTION

3"–11" DIA. L=2 1/2"±
12"–20" DIA. L=2 7/8"±
22"–36" DIA. L=3 1/4" ±

LONGITUDINAL SEAMS

LAP, SPOTWELD AND SEAL



GORE LOCK
14" DIA. AND LARGER

CENTERLINE RADIUS
1–1/2 X DIAMETER

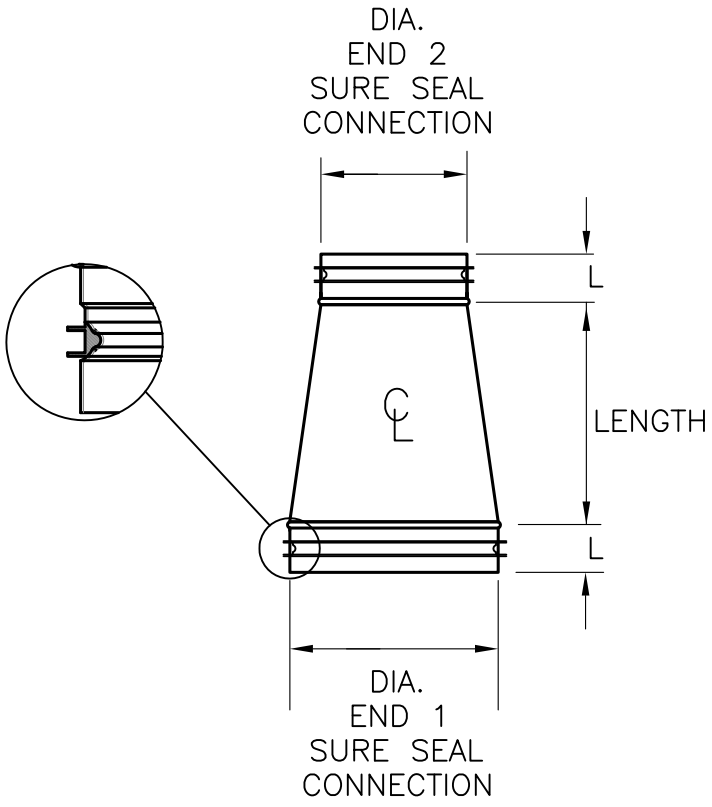
GORE AMOUNT
0–22 DEGREE = 2 GORE
23–45 DEGREE = 3 GORE
46–60 DEGREE = 4 GORE
61–90 DEGREE = 5 GORE

TAG	QTY.	DEGREE	DIA END 1

www.langdonsheetmetal.com

Langdon, Inc. 9865 Wayne Avenue. Cincinnati, Ohio. 45215 Ph. 513–733–5955 Fax. 513–733–8050

SUBMITTAL
SURE • SEAL SPIRAL FITTINGS
(PATENTED)
#57 CONCENTRIC REDUCER



SYSTEM NUMBER/AREA : _____

MATERIAL/STATIC WG : _____

FABRICATE IN ACCORDANCE WITH
SMACNA DUCT CONSTRUCTION STANDARDS

TRANSVERSE JOINT

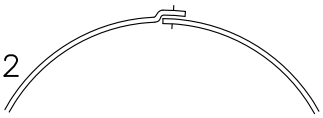
SMALL END SLIP CONNECTION

3"–11" DIA. L=2 1/2"±
12"–20" DIA. L=2 7/8"±
22"–36" DIA. L=3 1/4" ±

LONGITUDINAL SEAMS

LAP, SPOTWELD AND SEAL

RL–2



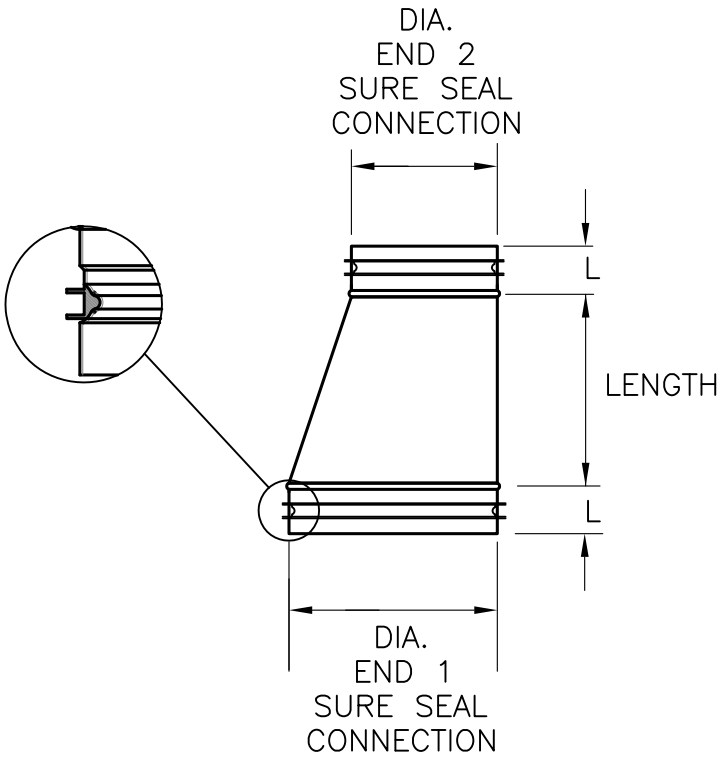
LENGTH (4" MINIMUM)
END 1 – END 2

TAG	QTY.	DIA. END 1	DIA END 2

www.langdonsheetmetal.com

Langdon, Inc. 9865 Wayne Avenue. Cincinnati, Ohio. 45215 Ph. 513–733–5955 Fax. 513–733–8050

SUBMITTAL
SURE • SEAL SPIRAL FITTINGS
(PATENTED)
#69 ECENTRIC REDUCER



SYSTEM NUMBER/AREA : _____

MATERIAL/STATIC WG : _____

FABRICATE IN ACCORDANCE WITH
SMACNA DUCT CONSTRUCTION STANDARDS

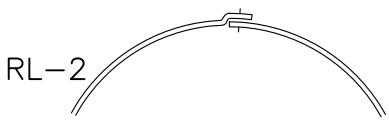
TRANSVERSE JOINT

SMALL END SLIP CONNECTION

3"–11" DIA. L=2 1/2"±
12"–20" DIA. L=2 7/8"±
22"–36" DIA. L=3 1/4" ±

LONGITUDINAL SEAMS

LAP, SPOTWELD AND SEAL



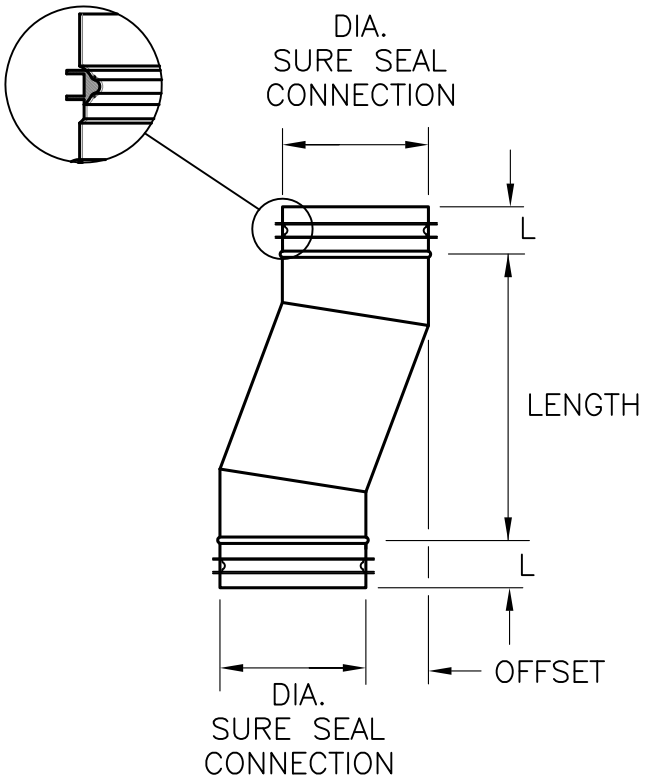
LENGTH (4" MINIMUM)
(END 1 – END 2) x 2

TAG	QTY.	DIA. END 1	DIA END 2

www.langdonsheetmetal.com

Langdon, Inc. 9865 Wayne Avenue. Cincinnati, Ohio. 45215 Ph. 513–733–5955 Fax. 513–733–8050

SUBMITTAL
SURE • SEAL SPIRAL FITTINGS
(PATENTED)
#53 OFFSET



SYSTEM NUMBER/AREA : _____
MATERIAL/STATIC WG : _____

FABRICATE IN ACCORDANCE WITH
SMACNA DUCT CONSTRUCTION STANDARDS

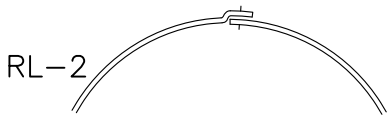
TRANSVERSE JOINT

SMALL END SLIP CONNECTION

3"–11" DIA. L=2 1/2"±
12"–20" DIA. L=2 7/8"±
22"–36" DIA. L=3 1/4" ±

LONGITUDINAL SEAMS

LAP, SPOTWELD AND SEAL



LENGTH (6" MINIMUM)
OFFSET X 2

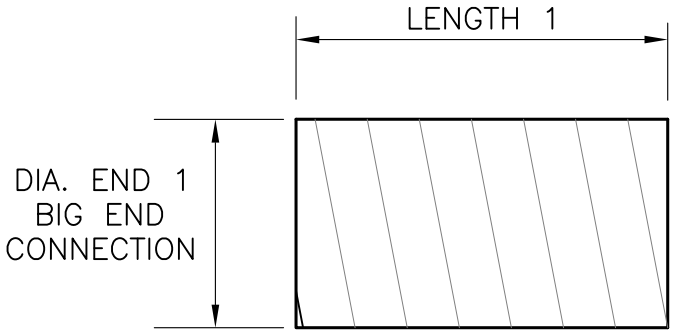
TAG	QTY.	DIA.	OFFSET

www.langdonsheetmetal.com

Langdon, Inc. 9865 Wayne Avenue. Cincinnati, Ohio. 45215 Ph. 513–733–5955 Fax. 513–733–8050

SUBMITTAL
SURE • SEAL SPIRAL FITTINGS
(PATENTED)

#100S SPIRAL DUCTWORK



SYSTEM NUMBER/AREA : _____

MATERIAL/STATIC WG : _____

FABRICATE IN ACCORDANCE WITH
SMACNA DUCT CONSTRUCTION STANDARDS

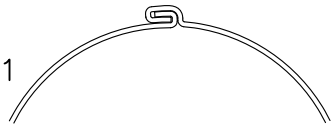
TRANSVERSE JOINT

BIG END RAW CONNECTION

LONGITUDINAL SEAM

SPIRAL SEAM

RL–1



LENGTH 1 = 10' MAX. 14" MIN.

SPECIAL LENGTHS AVALIABLE UPON REQUEST

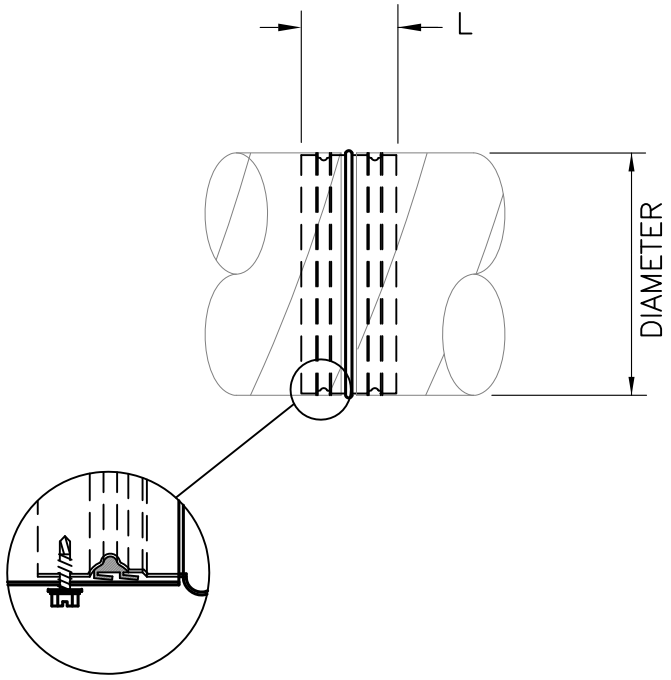
TAG	QTY.	DIA. END 1	LENGTH 1

www.langdonsheetmetal.com

Langdon, Inc. 9865 Wayne Avenue. Cincinnati, Ohio. 45215 Ph. 513–733–5955 Fax. 513–733–8050

SUBMITTAL
SURE • SEAL SPIRAL FITTINGS
(PATENTED)

SPIRAL COUPLING



SYSTEM NUMBER/AREA : _____
MATERIAL TYPE : _____

FABRICATE IN ACCORDANCE WITH
SMACNA DUCT CONSTRUCTION STANDARDS

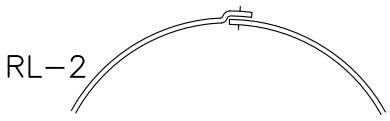
TRANSVERSE JOINT

SMALL END SLIP CONNECTION

3"–11" DIA. L=5 1/2"±
12"–20" DIA. L=6 1/4"±
22"–36" DIA. L=7" ±

LONGITUDINAL SEAMS

LAP, SPOTWELD AND SEAL



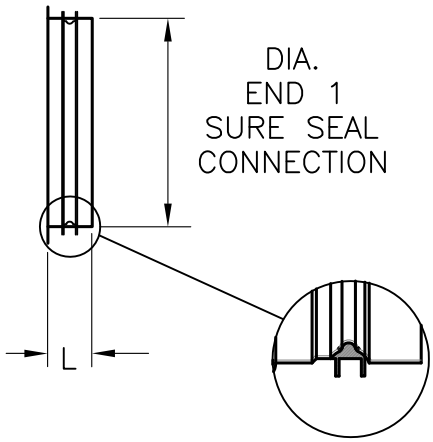
QTY.	DIAMETER

www.langdonsheetmetal.com

Langdon, Inc. 9865 Wayne Avenue. Cincinnati, Ohio. 45215 Ph. 513–733–5955 Fax. 513–733–8050

SUBMITTAL
SURE • SEAL SPIRAL FITTINGS
(PATENTED)

#02 END CAP



SYSTEM NUMBER/AREA : _____

MATERIAL/STATIC WG : _____

FABRICATE IN ACCORDANCE WITH
SMACNA DUCT CONSTRUCTION STANDARDS

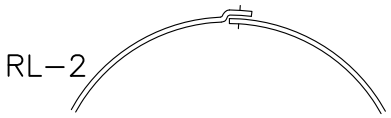
TRANSVERSE JOINT

SMALL END SLIP CONNECTION

3"–11" DIA. L=2 1/2"±
12"–20" DIA. L=2 7/8"±
22"–36" DIA. L=3 1/4" ±

LONGITUDINAL SEAMS

LAP, SPOTWELD AND SEAL



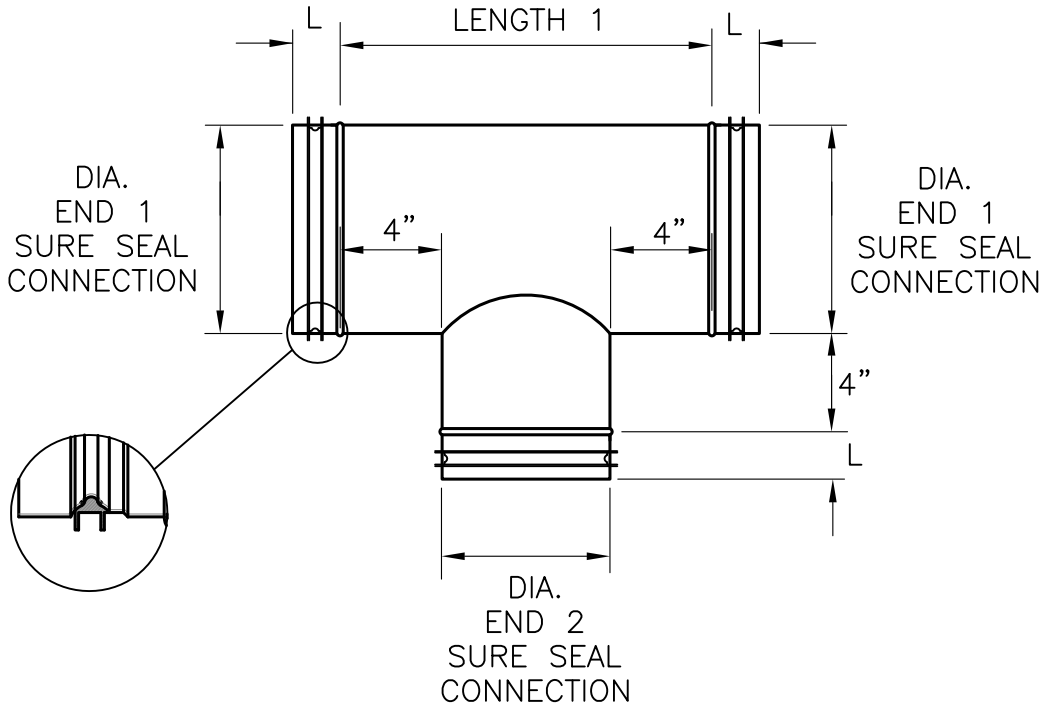
TAG	QTY.	DIA. END 1

www.langdonsheetmetal.com

Langdon, Inc. 9865 Wayne Avenue. Cincinnati, Ohio. 45215 Ph. 513–733–5955 Fax. 513–733–8050

SUBMITTAL
SURE • SEAL SPIRAL FITTINGS
(PATENTED)

#55 STRAIGHT 90 DEGREE TEE



SYSTEM NUMBER/AREA : _____
MATERIAL/STATIC WG : _____

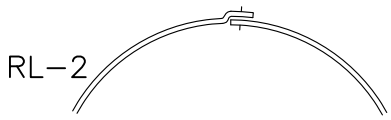
FABRICATE IN ACCORDANCE WITH
SMACNA DUCT CONSTRUCTION STANDARDS

TRANSVERSE JOINT

SMALL END SLIP CONNECTION
3"–11" DIA. L=2 1/2"±
12"–20" DIA. L=2 7/8"±
22"–36" DIA. L=3 1/4" ±

LONGITUDINAL SEAMS

LAP, SPOTWELD AND SEAL



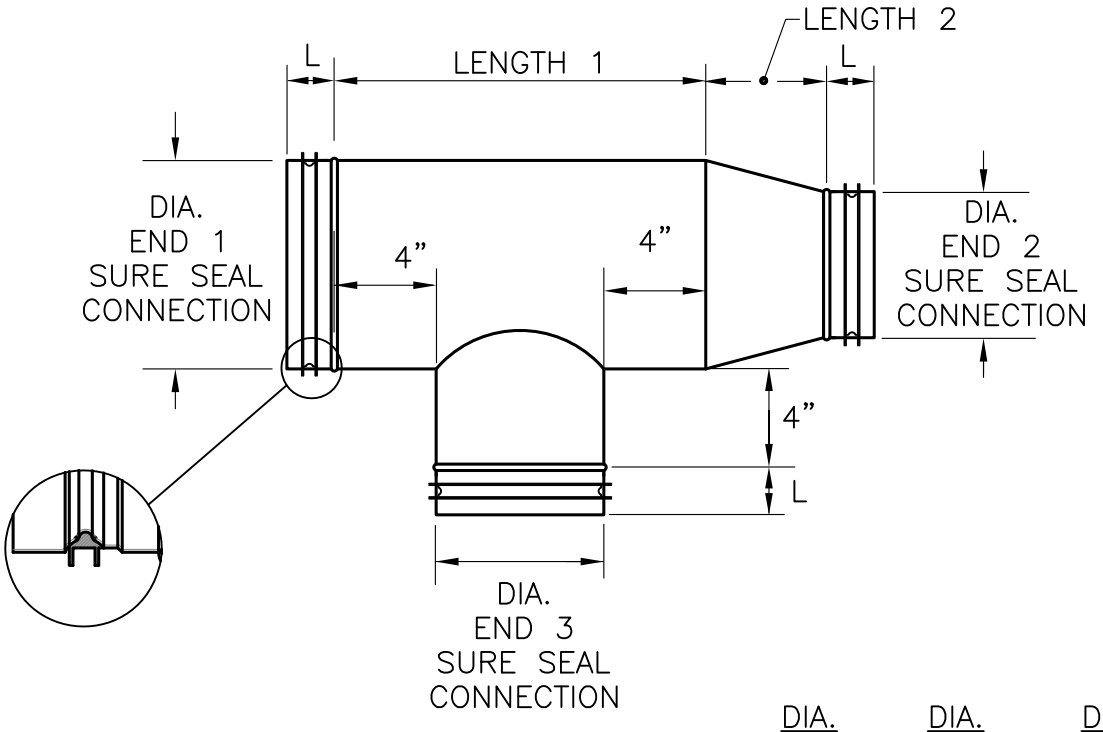
LENGTH 1
END 2 + 8"

TAG	QTY.	DIA. END 1	DIA. END 2

www.langdonsheetmetal.com
Langdon, Inc. 9865 Wayne Avenue. Cincinnati, Ohio. 45215 Ph. 513–733–5955 Fax. 513–733–8050

SUBMITTAL
SURE • SEAL SPIRAL FITTINGS
(PATENTED)

#65 CONCENTRIC REDUCING TEE 90 DEGREE



SYSTEM NUMBER/AREA : _____

MATERIAL/STATIC WG : _____

FABRICATE IN ACCORDANCE WITH
SMACNA DUCT CONSTRUCTION STANDARDS

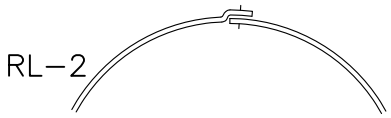
TRANSVERSE JOINT

SMALL END SLIP CONNECTION

3"–11" DIA. L=2 1/2"±
12"–20" DIA. L=2 7/8"±
22"–36" DIA. L=3 1/4" ±

LONGITUDINAL SEAMS

LAP, SPOTWELD AND SEAL



LENGTH 1

END 3 + 8"

LENGTH 2 (4" MINIMUM)

END 1 – END 2

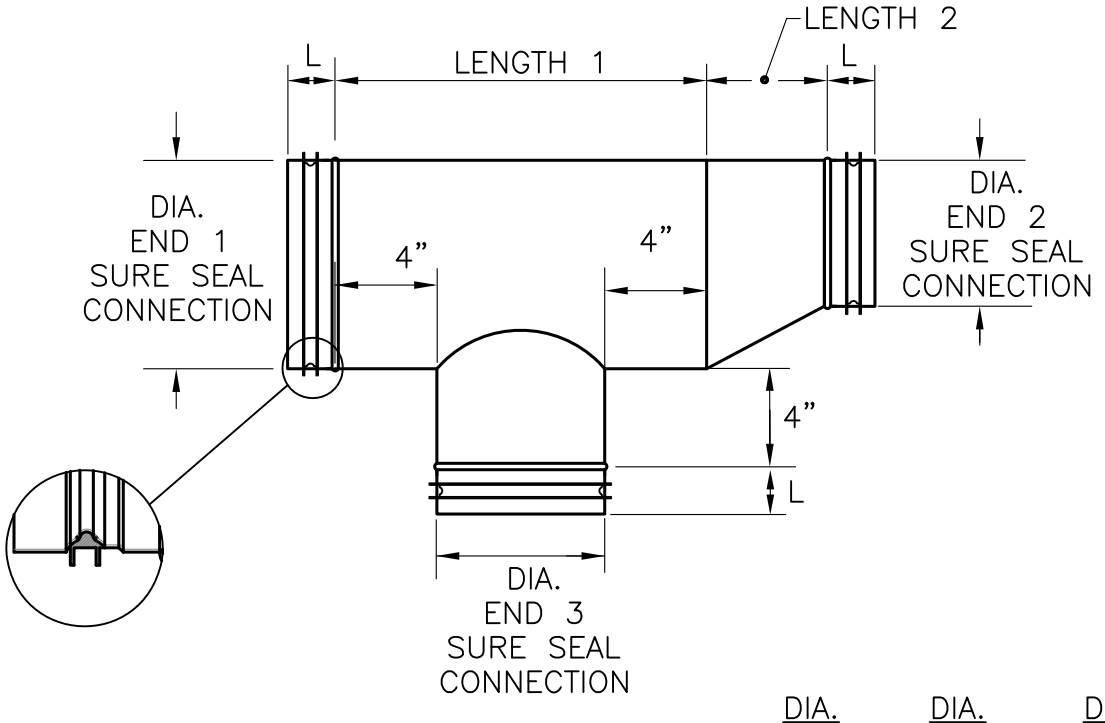
TAG	QTY.	DIA. END 1	DIA. END 2	DIA. END 3

www.langdonsheetmetal.com

Langdon, Inc. 9865 Wayne Avenue. Cincinnati, Ohio. 45215 Ph. 513–733–5955 Fax. 513–733–8050

SUBMITTAL
SURE • SEAL SPIRAL FITTINGS
(PATENTED)

#65F ECCENTRIC REDUCING TEE 90 DEGREE



SYSTEM NUMBER/AREA : _____

MATERIAL/STATIC WG : _____

FABRICATE IN ACCORDANCE WITH
SMACNA DUCT CONSTRUCTION STANDARDS

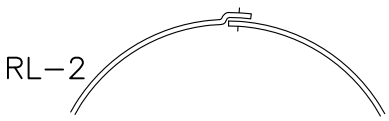
TRANSVERSE JOINT

SMALL END SLIP CONNECTION

3"–11" DIA. L=2 1/2"±
12"–20" DIA. L=2 7/8"±
22"–36" DIA. L=3 1/4" ±

LONGITUDINAL SEAMS

LAP, SPOTWELD AND SEAL



LENGTH 1

END 3 + 8"

LENGTH 2 (4" MINIMUM)

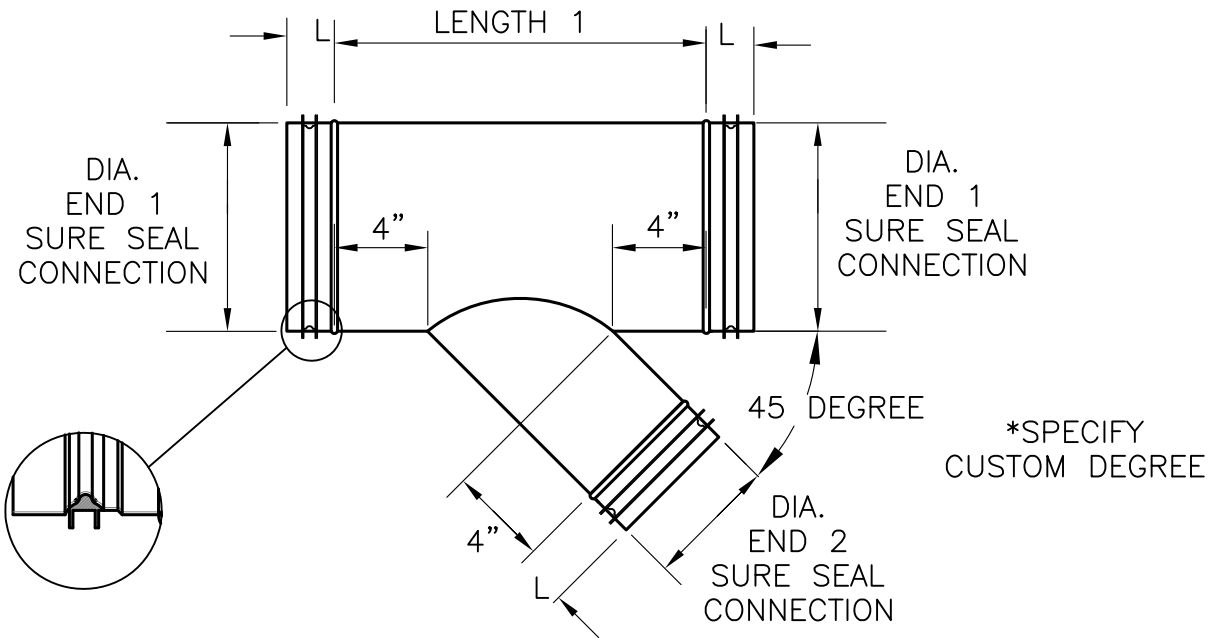
(END 1 – END 2) X 2

TAG	QTY.	DIA. END 1	DIA. END 2	DIA. END 3

www.langdonsheetmetal.com

Langdon, Inc. 9865 Wayne Avenue. Cincinnati, Ohio. 45215 Ph. 513–733–5955 Fax. 513–733–8050

SUBMITTAL
SURE • SEAL SPIRAL FITTINGS
(PATENTED)
#54 LATERAL



SYSTEM NUMBER/AREA : _____

MATERIAL/STATIC WG : _____

FABRICATE IN ACCORDANCE WITH
SMACNA DUCT CONSTRUCTION STANDARDS

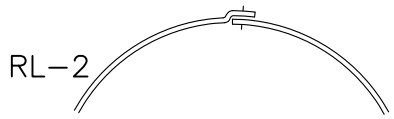
TRANSVERSE JOINT

SMALL END SLIP CONNECTION

3"–11" DIA. L=2 1/2"$^{+}_{-}$
12"–20" DIA. L=2 7/8"$^{+}_{-}$
22"–36" DIA. L=3 1/4"$^{+}_{-}$

LONGITUDINAL SEAMS

LAP, SPOTWELD AND SEAL



LENGTH 1

45 DEGREE: DIA. END 2 X (1.41) + 8
30 DEGREE: DIA. END 2 X (2) + 8

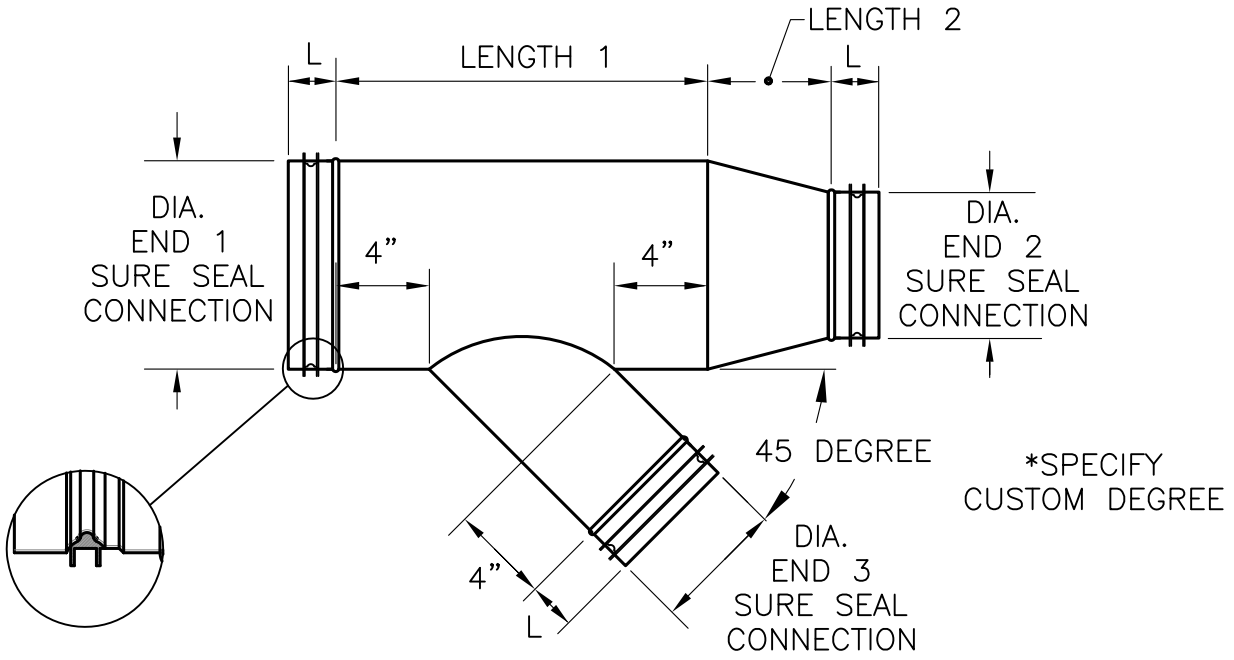
TAG	QTY.	DIA. END 1	DIA. END 2

www.langdonsheetmetal.com

Langdon, Inc. 9865 Wayne Avenue. Cincinnati, Ohio. 45215 Ph. 513–733–5955 Fax. 513–733–8050

SUBMITTAL
SURE • SEAL SPIRAL FITTINGS
(PATENTED)

#63 REDUCING LATERAL



SYSTEM NUMBER/AREA : _____

MATERIAL/STATIC WG : _____

FABRICATE IN ACCORDANCE WITH
SMACNA DUCT CONSTRUCTION STANDARDS

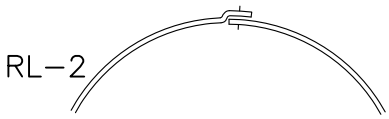
TRANSVERSE JOINT

SMALL END SLIP CONNECTION

3"–11" DIA. L=2 1/2"±
12"–20" DIA. L=2 7/8"±
22"–36" DIA. L=3 1/4"±

LONGITUDINAL SEAMS

LAP, SPOTWELD AND SEAL



LENGTH 1

45 DEGREE: DIA. END 3 X (1.41) + 8
30 DEGREE: DIA. END 3 X (2) + 8

LENGTH 2 (4" MINIMUM)
END 1 – END 2

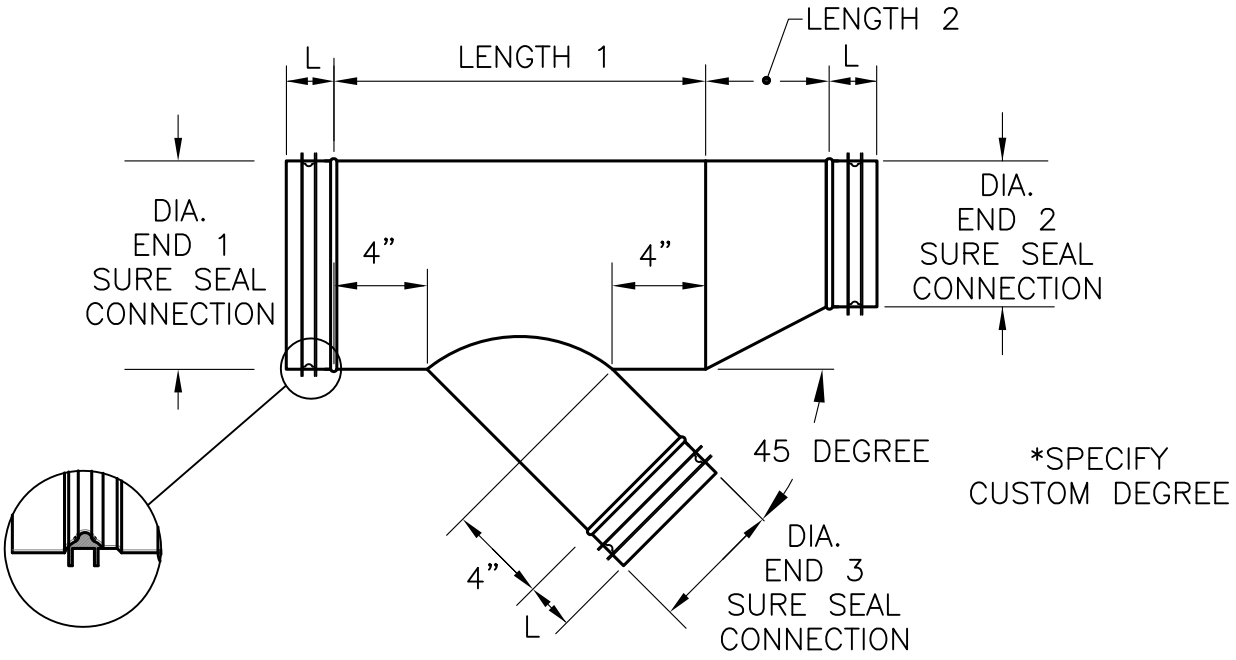
TAG	QTY.	DIA. END 1	DIA. END 2	DIA. END 3

www.langdonsheetmetal.com

Langdon, Inc. 9865 Wayne Avenue. Cincinnati, Ohio. 45215 Ph. 513–733–5955 Fax. 513–733–8050

SUBMITTAL
SURE • SEAL SPIRAL FITTINGS
(PATENTED)

#63F ECCENTRIC REDUCING LATERAL



SYSTEM NUMBER/AREA : _____

MATERIAL/STATIC WG : _____

FABRICATE IN ACCORDANCE WITH
SMACNA DUCT CONSTRUCTION STANDARDS

TRANSVERSE JOINT

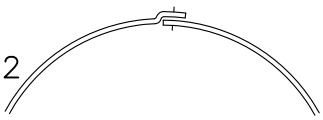
SMALL END SLIP CONNECTION

3"–11" DIA. L=2 1/2"
12"–20" DIA. L=2 7/8"
22"–36" DIA. L=3 1/4"

LONGITUDINAL SEAMS

LAP, SPOTWELD AND SEAL

RL–2



LENGTH 1

45 DEGREE: DIA. END 3 X (1.41) + 8
30 DEGREE: DIA. END 3 X (2) + 8

LENGTH 2 (4" MINIMUM)
(END 1 – END 2) X 2

TAG	QTY.	DIA. END 1	DIA. END 2	DIA. END 3

www.langdonsheetmetal.com

Langdon, Inc. 9865 Wayne Avenue. Cincinnati, Ohio. 45215 Ph. 513–733–5955 Fax. 513–733–8050

SUBMITTAL
SURE • SEAL SPIRAL FITTINGS
(PATENTED)
#73 LATERAL CROSS

SYSTEM NUMBER/AREA : _____
MATERIAL/STATIC WG : _____

FABRICATE IN ACCORDANCE WITH
SMACNA DUCT CONSTRUCTION STANDARDS

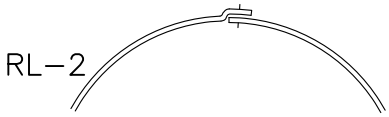
TRANSVERSE JOINT

SMALL END SLIP CONNECTION

3"–11" DIA. L=2 1/2" ±
12"–20" DIA. L=2 7/8" ±
22"–36" DIA. L=3 1/4" ±

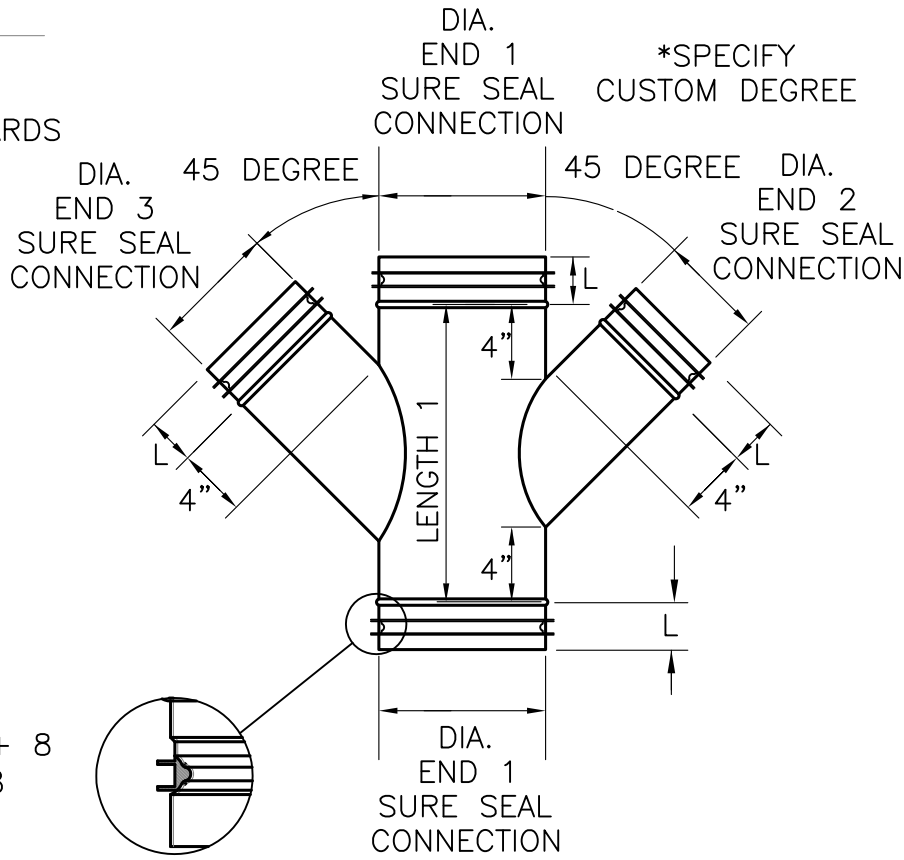
LONGITUDINAL SEAMS

LAP, SPOTWELD AND SEAL



LENGTH 1

45 DEGREE: DIA. END 3 X (1.41) + 8
30 DEGREE: DIA. END 3 X (2) + 8



TAG	QTY.	DIA. END 1	DIA END 2	DIA END 3

Langdon, Inc. 9865 Wayne Avenue. Cincinnati, Ohio. 45215 Ph. 513–733–5955 Fax. 513–733–8050

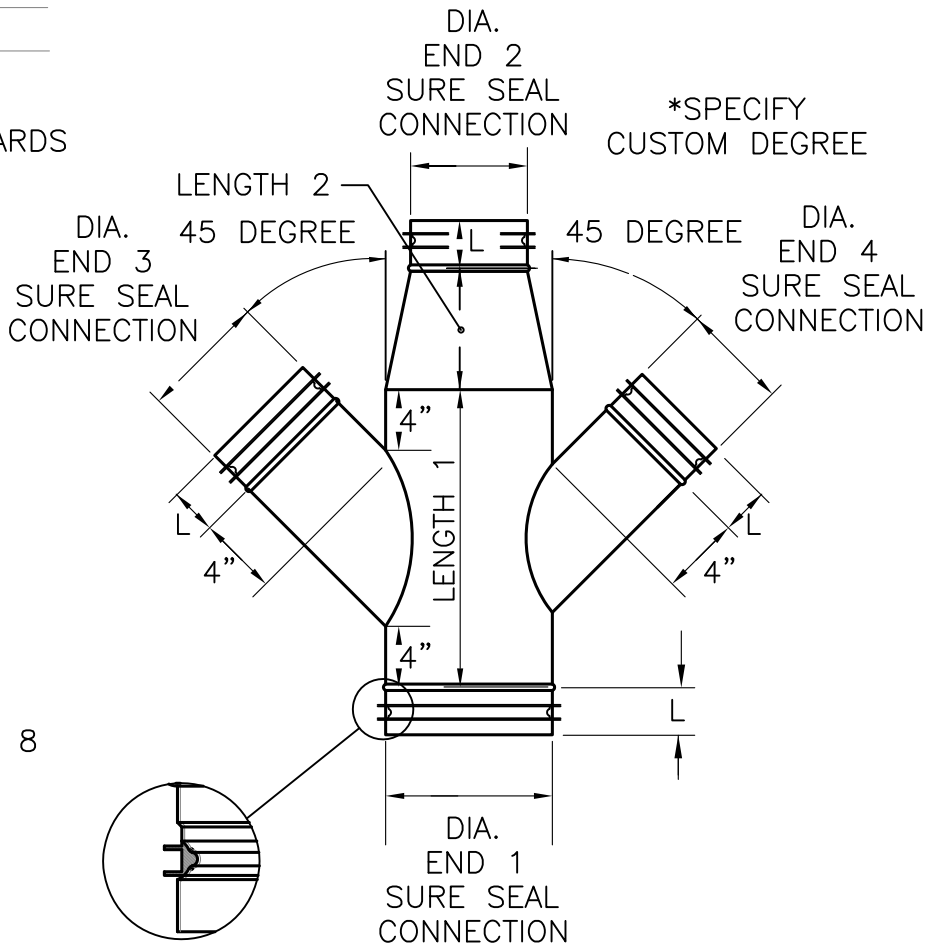
SUBMITTAL
SURE • SEAL SPIRAL FITTINGS
(PATENTED)

#64 REDUCING LATERAL CROSS

SYSTEM NUMBER/AREA : _____

MATERIAL/STATIC WG : _____

FABRICATE IN ACCORDANCE WITH
SMACNA DUCT CONSTRUCTION STANDARDS



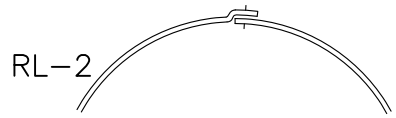
TRANSVERSE JOINT

SMALL END SLIP CONNECTION

3"–11" DIA. L=2 1/2" ±
12"–20" DIA. L=2 7/8" ±
22"–36" DIA. L=3 1/4" ±

LONGITUDINAL SEAMS

LAP, SPOTWELD AND SEAL



LENGTH 1

45 DEGREE: DIA. END 3 X (1.41) + 8
30 DEGREE: DIA. END 3 X (2) + 8

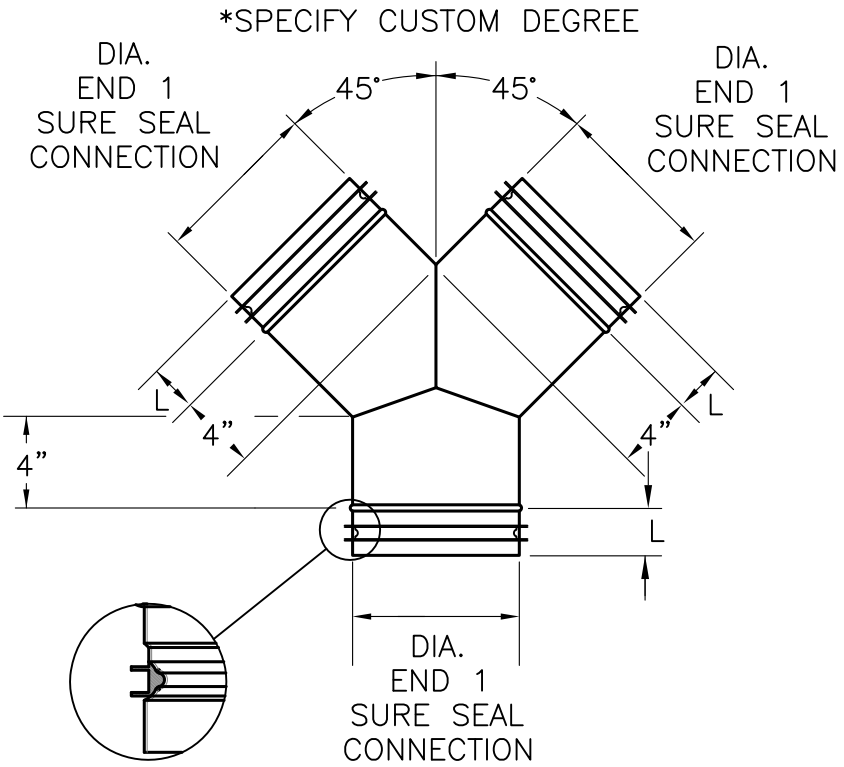
LENGTH 2 (4" MINIMUM)
END 1 – END 2

TAG	QTY.	DIA. END 1	DIA END 2	DIA END 3	DIA END 4

Langdon, Inc. 9865 Wayne Avenue. Cincinnati, Ohio. 45215 Ph. 513–733–5955 Fax. 513–733–8050

SUBMITTAL
SURE • SEAL SPIRAL FITTINGS
(PATENTED)

#132A 45° Y BRANCH



SYSTEM NUMBER/AREA : _____

MATERIAL/STATIC WG : _____

FABRICATE IN ACCORDANCE WITH
SMACNA DUCT CONSTRUCTION STANDARDS

TRANSVERSE JOINT

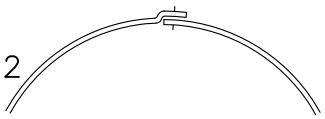
SMALL END SLIP CONNECTION

3"–11" DIA. L=2 1/2"±
12"–20" DIA. L=2 7/8"±
22"–36" DIA. L=3 1/4" ±

LONGITUDINAL SEAMS

LAP, SPOTWELD AND SEAL

RL–2



TAG	QTY.	DIA. END 1

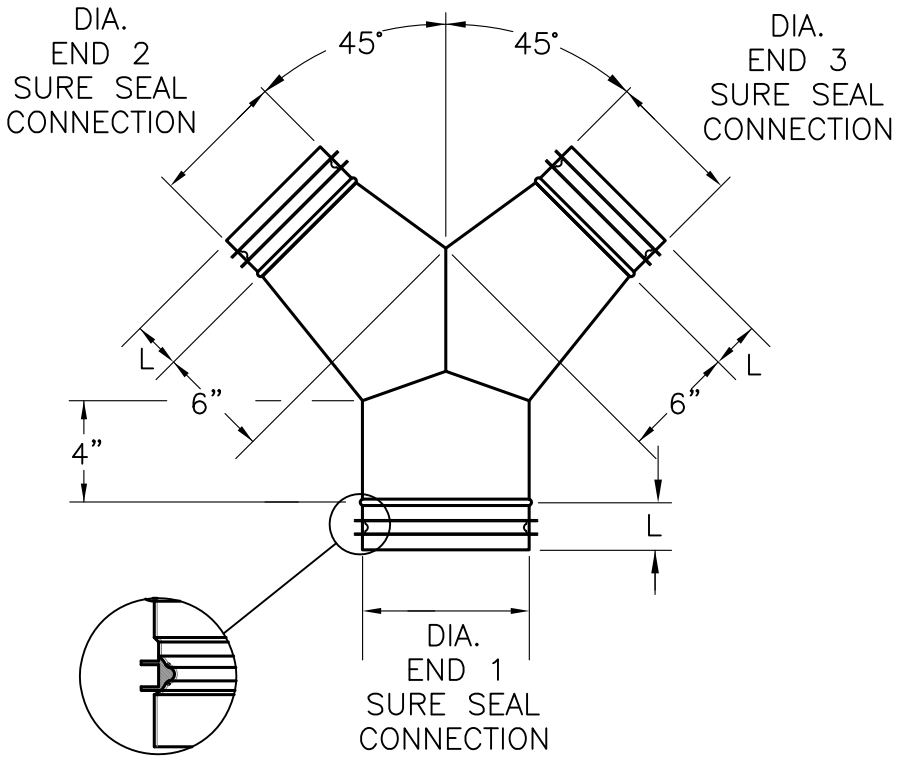
www.langdonsheetmetal.com

Langdon, Inc. 9865 Wayne Avenue. Cincinnati, Ohio. 45215 Ph. 513–733–5955 Fax. 513–733–8050

SUBMITTAL
SURE • SEAL SPIRAL FITTINGS
(PATENTED)

#132 45° Y BRANCH REDUCING

*SPECIFY CUSTOM DEGREE



SYSTEM NUMBER/AREA : _____

MATERIAL/STATIC WG : _____

FABRICATE IN ACCORDANCE WITH
SMACNA DUCT CONSTRUCTION STANDARDS

TRANSVERSE JOINT

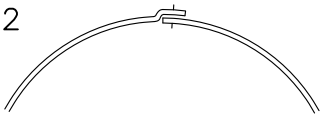
SMALL END SLIP CONNECTION

3"–11" DIA. L=2 1/2"±
12"–20" DIA. L=2 7/8"±
22"–36" DIA. L=3 1/4" ±

LONGITUDINAL SEAMS

LAP, SPOTWELD AND SEAL

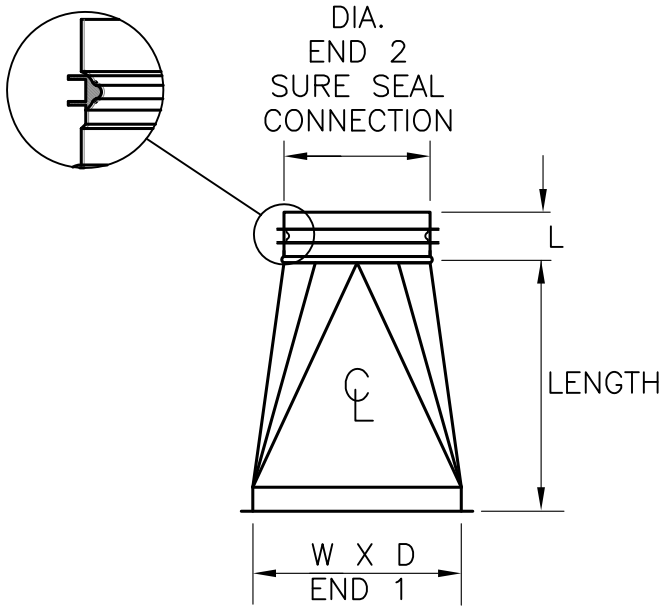
RL–2



TAG	QTY.	DIA. END 1	DIA. END 2	DIA. END 3

Langdon, Inc. 9865 Wayne Avenue. Cincinnati, Ohio. 45215 Ph. 513–733–5955 Fax. 513–733–8050

SUBMITTAL
SURE • SEAL SPIRAL FITTINGS
(PATENTED)
#50 CENTER LINE SQUARE TO ROUND



S & D–TDC–FLG–RAW

SYSTEM NUMBER/AREA : _____
MATERIAL/STATIC WG : _____

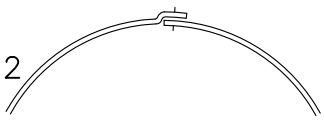
FABRICATE IN ACCORDANCE WITH
SMACNA DUCT CONSTRUCTION STANDARDS

END 1 TRANSVERSE JOINT
S & D–TDC–FLG–RAW

END 2 TRANSVERSE JOINT
SMALL END SLIP CONNECTION
3"–11" DIA. L=2 1/2"±
12"–20" DIA. L=2 7/8"±
22"–36" DIA. L=3 1/4" ±

LONGITUDINAL SEAMS
LAP, SPOTWELD AND SEAL

RL–2



LENGTH (6" MINIMUM)
END 1 (W OR D LARGEST ONE)
– END 2

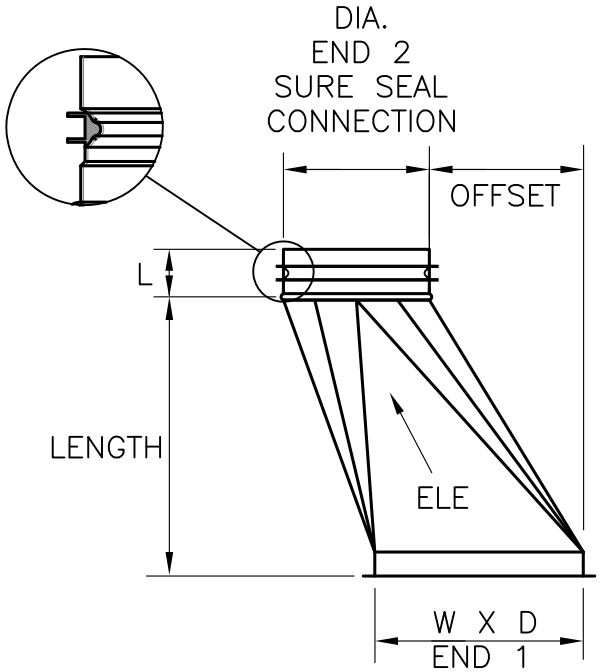
TAG	QTY.	W X D END 1 CENTERLINE	CONN. TYPE END 1	DIA. END 2 CENTERLINE
		X		
		X		
		X		
		X		
		X		
		X		
		X		
		X		
		X		
		X		
		X		
		X		

www.langdonsheetmetal.com

Langdon, Inc. 9865 Wayne Avenue. Cincinnati, Ohio. 45215 Ph. 513–733–5955 Fax. 513–733–8050

SUBMITTAL
SURE • SEAL SPIRAL FITTINGS
(PATENTED)

#74 OFFSET SQUARE TO ROUND



S & D–TDC–FLG–RAW

SYSTEM NUMBER/AREA : _____

MATERIAL/STATIC WG : _____

FABRICATE IN ACCORDANCE WITH
SMACNA DUCT CONSTRUCTION STANDARDS

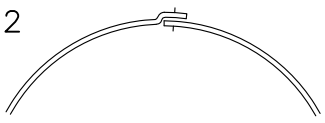
END 1 TRANSVERSE JOINT
S & D–TDC–FLG–RAW

END 2 TRANSVERSE JOINT
SMALL END SLIP CONNECTION

3"–11" DIA. L=2 1/2"±
12"–20" DIA. L=2 7/8"±
22"–36" DIA. L=3 1/4"±

LONGITUDINAL SEAMS
LAP, SPOTWELD AND SEAL

RL–2



LENGTH (6" MINIMUM)
OFFSET X 2

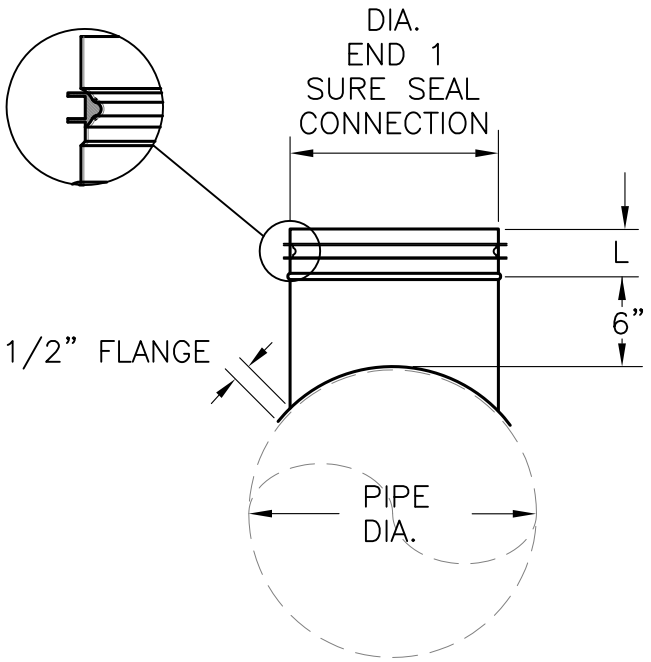
TAG	QTY.	W X D END 1	CONN. TYPE END 1	DIA END 2	OFFSET	ELE. TU/TD
		X				
		X				
		X				
		X				
		X				
		X				
		X				
		X				
		X				

www.langdonsheetmetal.com

Langdon, Inc. 9865 Wayne Avenue. Cincinnati, Ohio. 45215 Ph. 513–733–5955 Fax. 513–733–8050

SUBMITTAL
SURE • SEAL SPIRAL FITTINGS
(PATENTED)

#67-90 FIELD MOUNTED STRAIGHT TAP ON ROUND



SYSTEM NUMBER/AREA : _____

MATERIAL/STATIC WG : _____

FABRICATE IN ACCORDANCE WITH
SMACNA DUCT CONSTRUCTION STANDARDS

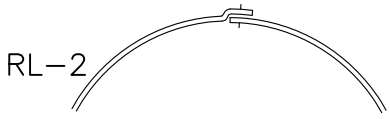
TRANSVERSE JOINT

SMALL END SLIP CONNECTION

3"–11" DIA. L=2 1/2"±
12"–20" DIA. L=2 7/8"±
22"–36" DIA. L=3 1/4" ±

LONGITUDINAL SEAMS

LAP, SPOTWELD AND SEAL



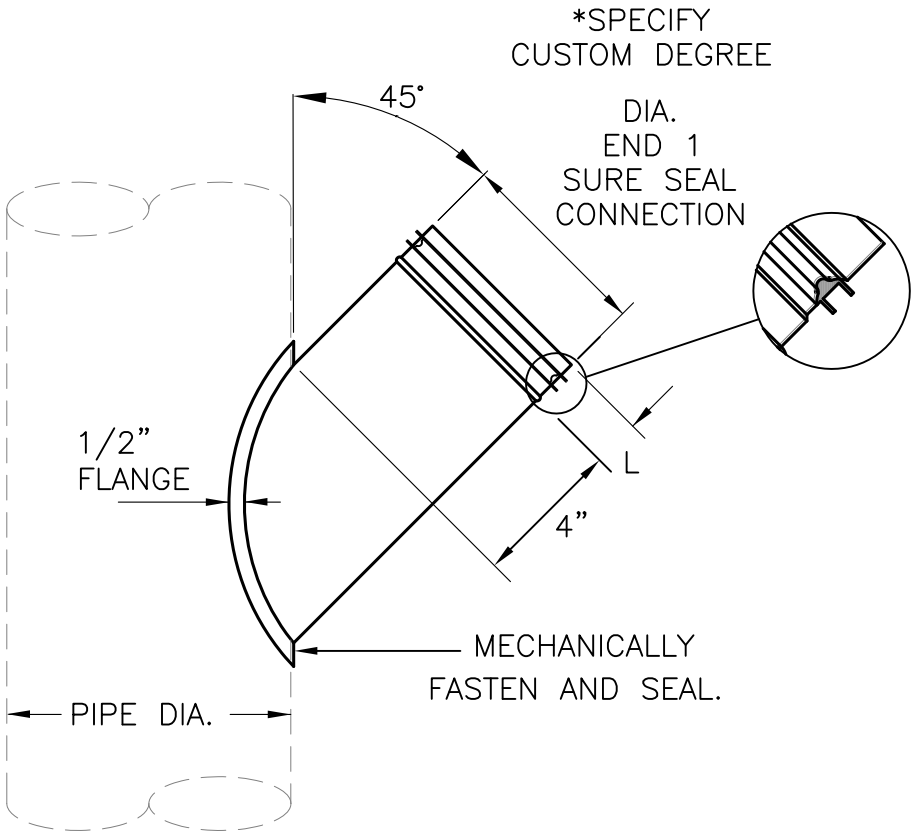
TAG	QTY.	DIA. END 1	PIPE DIA.

www.langdonsheetmetal.com

Langdon, Inc. 9865 Wayne Avenue. Cincinnati, Ohio. 45215 Ph. 513–733–5955 Fax. 513–733–8050

SUBMITTAL
SURE • SEAL SPIRAL FITTINGS
(PATENTED)

#67 FIELD MOUNTED LATERAL TAP



SYSTEM NUMBER/AREA : _____

MATERIAL/STATIC WG : _____

FABRICATE IN ACCORDANCE WITH
SMACNA DUCT CONSTRUCTION STANDARDS

TRANSVERSE JOINT

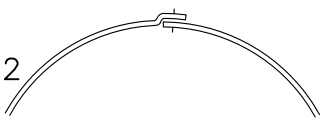
SMALL END SLIP CONNECTION

3"–11" DIA. L=2 1/2"±
12"–20" DIA. L=2 7/8"±
22"–36" DIA. L=3 1/4" ±

LONGITUDINAL SEAMS

LAP, SPOTWELD AND SEAL

RL–2



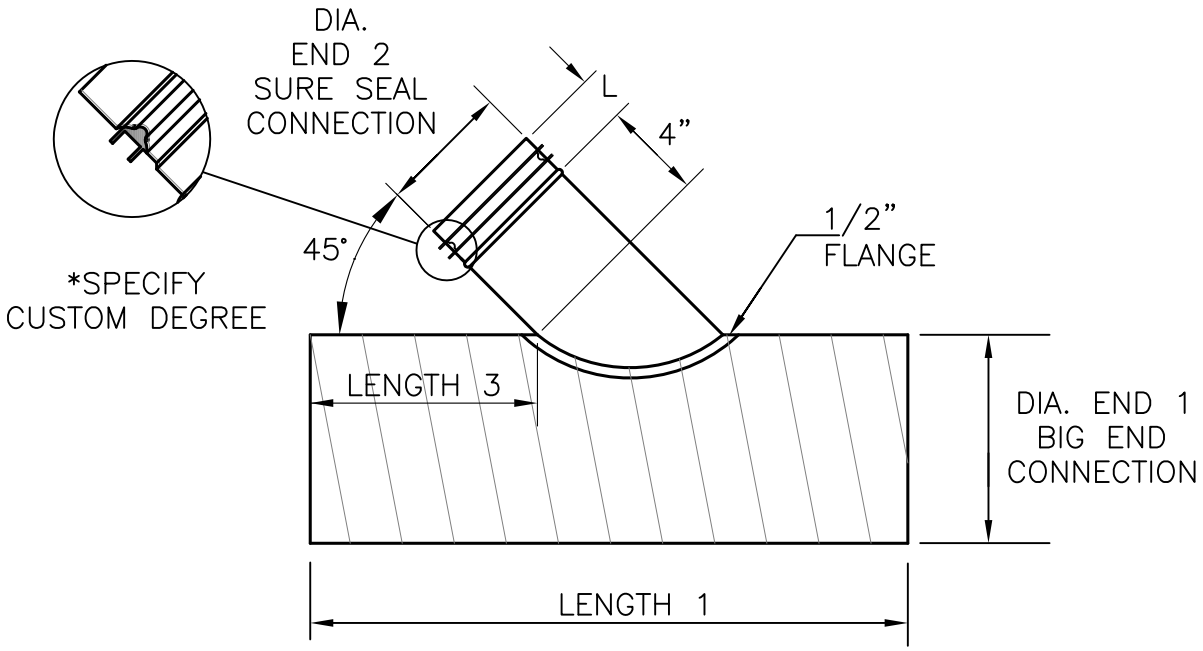
TAG	QTY.	DIA. END 1	PIPE DIA.

www.langdonsheetmetal.com

Langdon, Inc.· 9865 Wayne Avenue. Cincinnati, Ohio. 45215· Ph. 513–733–5955 Fax. 513–733–8050

SUBMITTAL
SURE • SEAL SPIRAL FITTINGS
(PATENTED)

#54S LATERAL SHOP MOUNTED



SYSTEM NUMBER/AREA : _____
MATERIAL/STATIC WG : _____

TAG	QTY.	DIA. END 1	DIA. END 2	LENGTH 1	LENGTH 3

FABRICATE IN ACCORDANCE WITH
SMACNA DUCT CONSTRUCTION STANDARDS

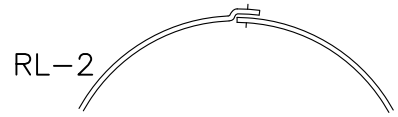
TRANSVERSE JOINT

SMALL END SLIP CONNECTION

3"–11" DIA. L=2 1/2"±
12"–20" DIA. L=2 7/8"±
22"–36" DIA. L=3 1/4" ±

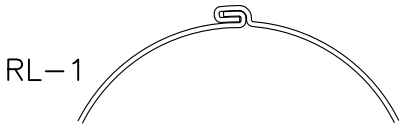
LATERAL LONGITUDINAL SEAM

LAP, SPOTWELD AND SEAL



BODY LONGITUDINAL SEAM

SPIRAL SEAM

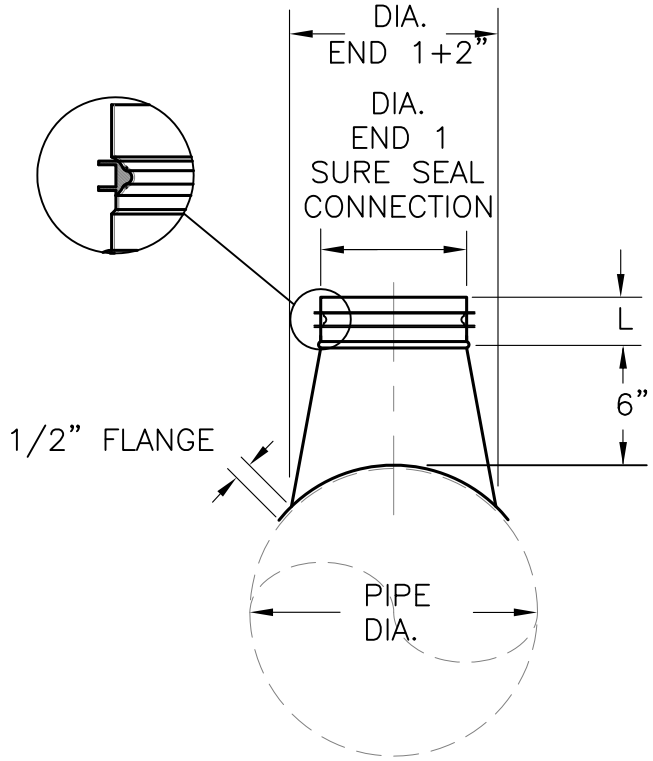


www.langdonsheetmetal.com

Langdon, Inc. 9865 Wayne Avenue. Cincinnati, Ohio. 45215 Ph. 513–733–5955 Fax. 513–733–8050

SUBMITTAL
SURE • SEAL SPIRAL FITTINGS
(PATENTED)

#56T CONICAL TAP ON ROUND



SYSTEM NUMBER/AREA : _____

MATERIAL/STATIC WG : _____

FABRICATE IN ACCORDANCE WITH
SMACNA DUCT CONSTRUCTION STANDARDS

TRANSVERSE JOINT

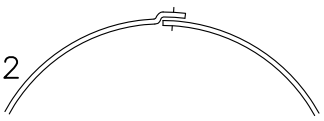
SMALL END SLIP CONNECTION

3"–11" DIA. L=2 1/2"±
12"–20" DIA. L=2 7/8"±
22"–36" DIA. L=3 1/4" ±

LONGITUDINAL SEAMS

LAP, SPOTWELD AND SEAL

RL–2



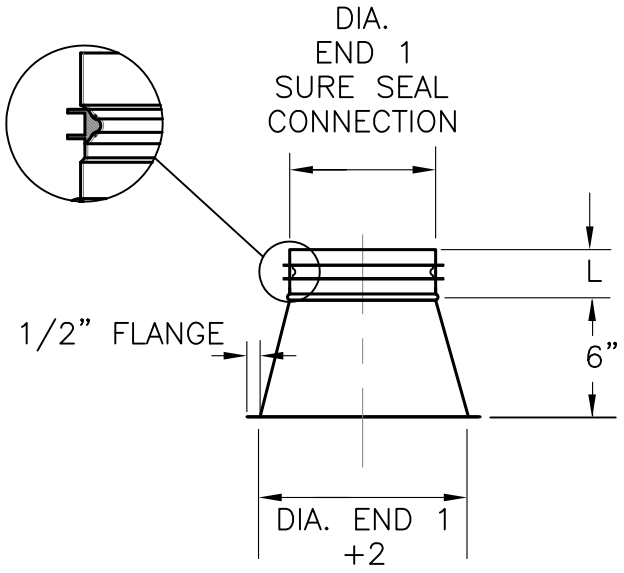
TAG	QTY.	DIA. END 1	PIPE DIA.

www.langdonsheetmetal.com

Langdon, Inc. 9865 Wayne Avenue. Cincinnati, Ohio. 45215 Ph. 513–733–5955 Fax. 513–733–8050

SUBMITTAL
SURE • SEAL SPIRAL FITTINGS
(PATENTED)

#57T CONICAL TAP ON RECTANGULAR DUCTWORK



SYSTEM NUMBER/AREA : _____

MATERIAL/STATIC WG : _____

FABRICATE IN ACCORDANCE WITH
SMACNA DUCT CONSTRUCTION STANDARDS

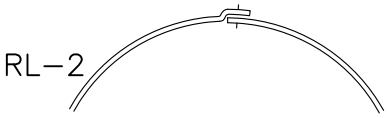
TRANSVERSE JOINT

SMALL END SLIP CONNECTION

3"–11" DIA. L=2 1/2"±
12"–20" DIA. L=2 7/8"±
22"–36" DIA. L=3 1/4" ±

LONGITUDINAL SEAMS

LAP, SPOTWELD AND SEAL



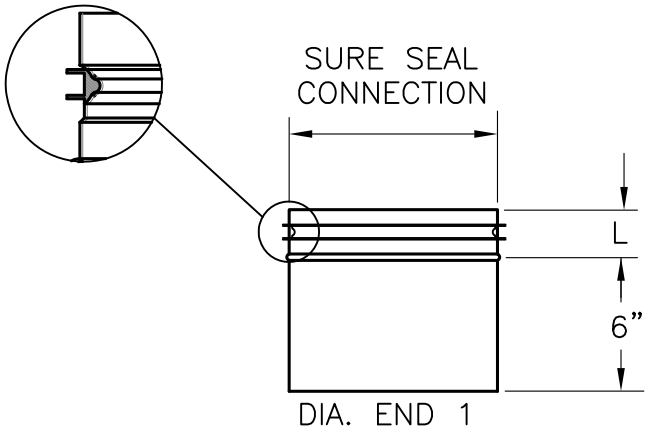
TAG	QTY.	DIA. END 1

www.langdonsheetmetal.com

Langdon, Inc. 9865 Wayne Avenue. Cincinnati, Ohio. 45215 Ph. 513–733–5955 Fax. 513–733–8050

SUBMITTAL
SURE • SEAL SPIRAL FITTINGS
(PATENTED)

#100C EQUIPMENT COLLAR-(HOODS, AIR VALVES, ECT.)



SYSTEM NUMBER/AREA : _____
MATERIAL/STATIC WG : _____

FABRICATE IN ACCORDANCE WITH
SMACNA DUCT CONSTRUCTION STANDARDS

TRANSVERSE JOINT

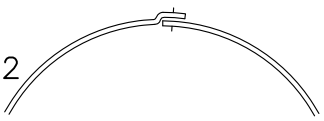
SMALL END SLIP CONNECTION

3"–11" DIA. L=2 1/2"±
12"–20" DIA. L=2 7/8"±
22"–36" DIA. L=3 1/4" ±

LONGITUDINAL SEAMS

LAP, SPOTWELD AND SEAL

RL–2

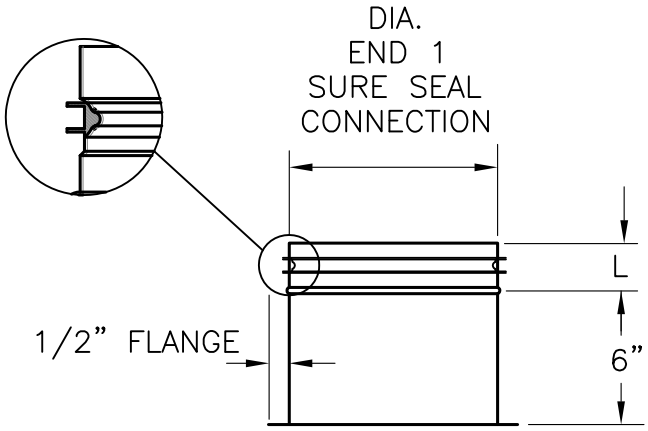


TAG	QTY.	DIA. END 1

Langdon, Inc. 9865 Wayne Avenue. Cincinnati, Ohio. 45215 Ph. 513–733–5955 Fax. 513–733–8050

SUBMITTAL
SURE • SEAL SPIRAL FITTINGS
(PATENTED)

#100T FIELD MOUNTED STRAIGHT TAP ON RECTANGULAR



SYSTEM NUMBER/AREA : _____
MATERIAL/STATIC WG : _____

FABRICATE IN ACCORDANCE WITH
SMACNA DUCT CONSTRUCTION STANDARDS

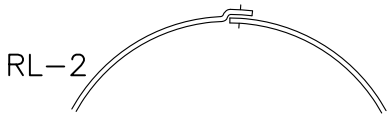
TRANSVERSE JOINT

SMALL END SLIP CONNECTION

3"–11" DIA. L=2 1/2"±
12"–20" DIA. L=2 7/8"±
22"–36" DIA. L=3 1/4" ±

LONGITUDINAL SEAMS

LAP, SPOTWELD AND SEAL



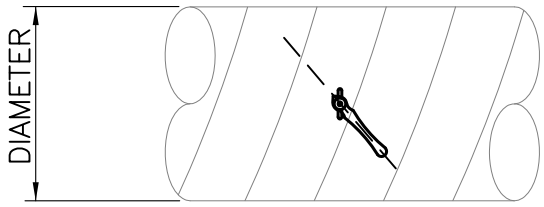
TAG	QTY.	DIA. END 1

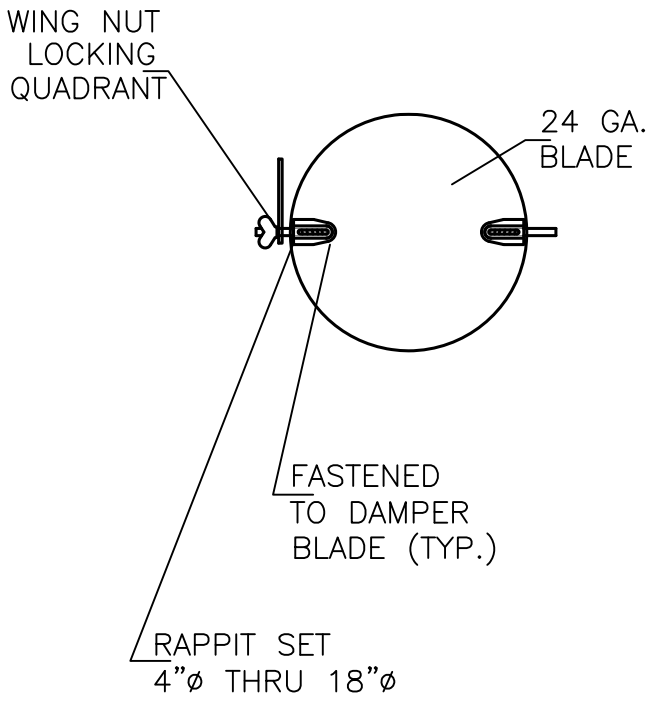
www.langdonsheetmetal.com

Langdon, Inc. 9865 Wayne Avenue. Cincinnati, Ohio. 45215 Ph. 513–733–5955 Fax. 513–733–8050

SUBMITTAL
SPIRAL FITTINGS

MANUAL VOLUME DAMPER 4"ø TO 18"ø





SYSTEM NUMBER/AREA : _____
MATERIAL/STATIC WG : _____

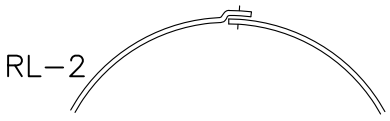
FABRICATE IN ACCORDANCE WITH
SMACNA DUCT CONSTRUCTION STANDARDS

TRANSVERSE JOINT

SMALL END SLIP CONNECTION

LONGITUDINAL SEAMS

LAP, SPOTWELD AND SEAL



STANDARD SIZES 4"ø THRU 18"ø

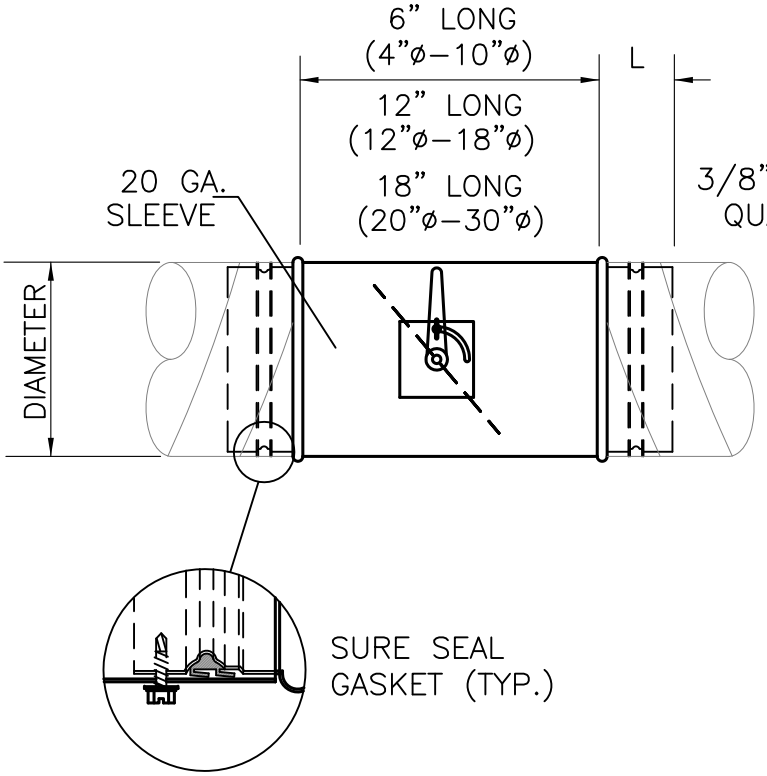
TAG	QTY.	DIAMETER

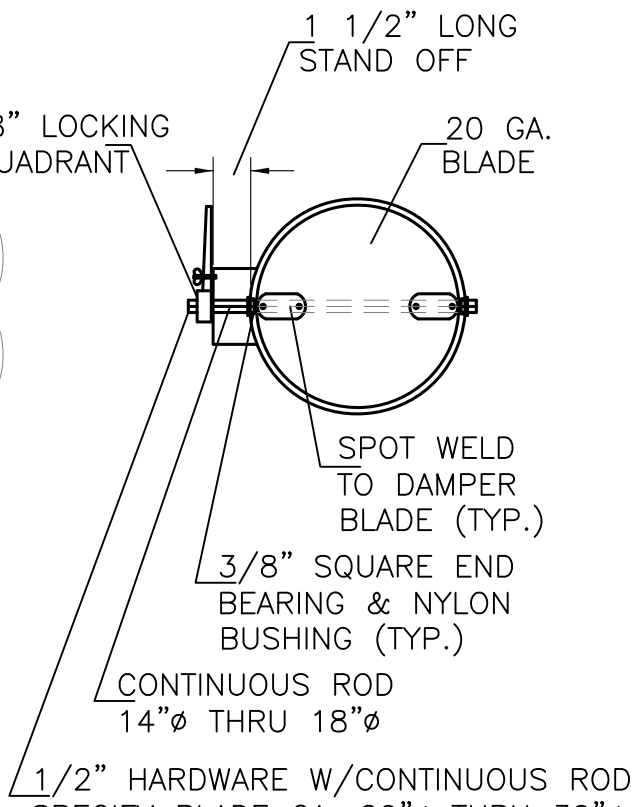
www.langdonsheetmetal.com

Langdon, Inc. 9865 Wayne Avenue. Cincinnati, Ohio. 45215 Ph. 513–733–5955 Fax. 513–733–8050

SUBMITTAL
SURE • SEAL SPIRAL FITTINGS
(PATENTED)

MANUAL VOLUME DAMPER 4"ø TO 18"ø (EVEN SIZES)





SYSTEM NUMBER/AREA : _____

MATERIAL/STATIC WG : _____

FABRICATE IN ACCORDANCE WITH
SMACNA DUCT CONSTRUCTION STANDARDS

TRANSVERSE JOINT

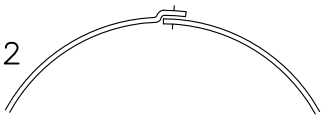
SURE SEAL GASKET

3"–11" DIA. L=2 1/2"±
12"–20" DIA. L=2 7/8"±
22"–36" DIA. L=3 1/4" ±

LONGITUDINAL SEAMS

LAP, SPOTWELD AND SEAL

RL–2



STANDARD SIZES 4"ø THRU 30"ø

TAG	QTY.	DIAMETER

www.langdonsheetmetal.com

Langdon, Inc. 9865 Wayne Avenue. Cincinnati, Ohio. 45215 Ph. 513–733–5955 Fax. 513–733–8050