

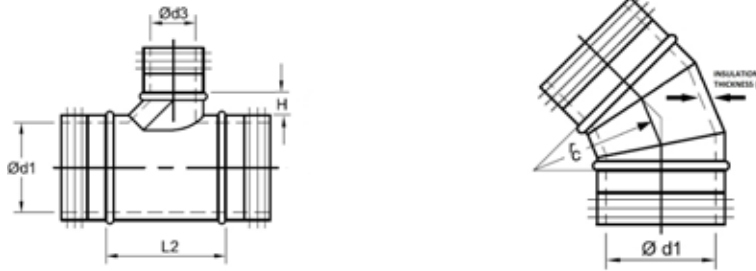


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Diagram Abbreviations and Ordering



- Nominal inside diameter (duct size) ØD
- Nominal outside diameter (fitting size) Ød1, Ød2, Ød3, Ød4
- Material thickness (gauge) t
- Installed height H
- Center line radius r_c
- Installed length L
- Fitting slip dimension e

All measurements in inches (in or ") unless otherwise noted.

All angles in degrees (°).

Ordering example: RCGI-07-05

Ød1 (inch)	Ød2 (inch)	L (inch)
5	3	1½
5	4	1
6	3	1⅝
6	4	1¼
6	5	¾
7	4	1⅝
7	6	2½

→ installed length

→ nominal diameters added to order code

Nomenclature Abbreviations

END CONNECTION

Gasketed end connection or nongasketed? Example: BSI vs. BSGI Elbow

BSI	BSGI
Nongasketed Double Wall Elbow	EHG G-3 Double Wall Elbow

DUCT SRI = double wall round, spiral duct
I = insulated

ELBOWS B = elbow
S = radius of 1.5 (standard)
w/o "S" radius = 1.0 radius (nonstandard)
F = fabricated (aka not stamped)
G = gasketed
I = insulated

REDUCERS R = reducer
C = concentric or center taper
F = female
G = gasketed
L = long
I = insulated

TAPS P = pressed
S = saddle
G = gasketed
I = insulated
V = 45°
B = boot-style
R = non-specific
C = concentric or center taper

TEES B = boot-style
T = tee
G = gasketed
C = concentric/center
P = pressed
I = insulated

TAKE-OFFS IL = initial leg
R = bell mouth type or *radiused*
G = gasketed
I = insulated

CROSSING TEES X = cross
I = insulated
C = center
P = pressed
G = gasketed
B = boot-style

LATERAL TEES T = tee
I = insulated
V = 45°
G = gasketed
45 = angle of take-off
X = take-off each side

Y-BRANCH Y = wye
I = insulated
V = 45°
G = gasketed

END CAPS E = end cap
I = insulated
S = fits inside duct
G = gasketed
P = fits outer duct
F = female
H = handle

DAMPERS D = damper
S = full blade
R = slotted damper blade
T = gasketed blade
G = gasketed
I = insulated

COUPLINGS MF = outer coupling
NP = inner coupling
I = insulated

EHG G-3[®] Connection

Design by Diameter



Gasket connection for diameters 26" and smaller



"Leading Edge" for diameters 28" and larger

The EHG G-3 self-sealing duct system is based on a triple-lipped EPDM rubber gasket. This gasket is located in a groove at the end of the fitting. This design ensures that the rubber gasket is always held in the correct position.

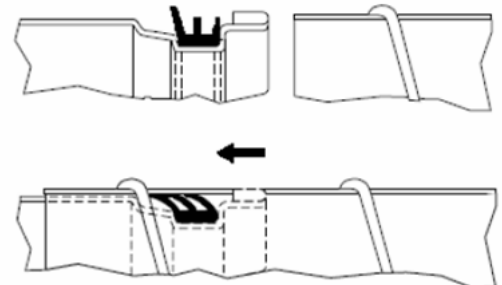
When the fitting is inserted into the spiral duct, the gasket folds back forming a seal against the inside of the spiral duct eliminating the need for any duct sealer.

In order to achieve optimum sealing for all diameters, various gasket sizes are used as shown in the table below.

The standard EHG G-3 gasket is made from a material resistant to ozone, UV rays, and temperature fluctuations. A silicone gasket for special applications is also available. The standard EHG G-3 gasket is rated for temperatures from -20°F to +212°F (silicone gasket rated for temperatures from -94°F to +302°F).

Benefits of the EHG G-3 Duct System

- A complete line of self-sealing spiral duct and fittings
- Factory installed gasket - no loose parts
- Fast and easy installation
- Environmentally friendly, no harmful sealers required
- Installation not contingent on weather
- Performance rated from -20°F to +212°F
- Triple-lipped gasket minimizes the risk of leakage in the event of damage
- Meets SMACNA's Leakage Class 3
- Gasket U.L. classified rating (Flame Spread 0/ Smoke Developed 5) in accordance with ASTM standard E84-91a
- Rolled over edges for easier installation, reduces risk of injury and adds strength
- Adjustability - fittings can be rotated 360° during installation and still maintain the seal's integrity



Gasket Size by Diameter



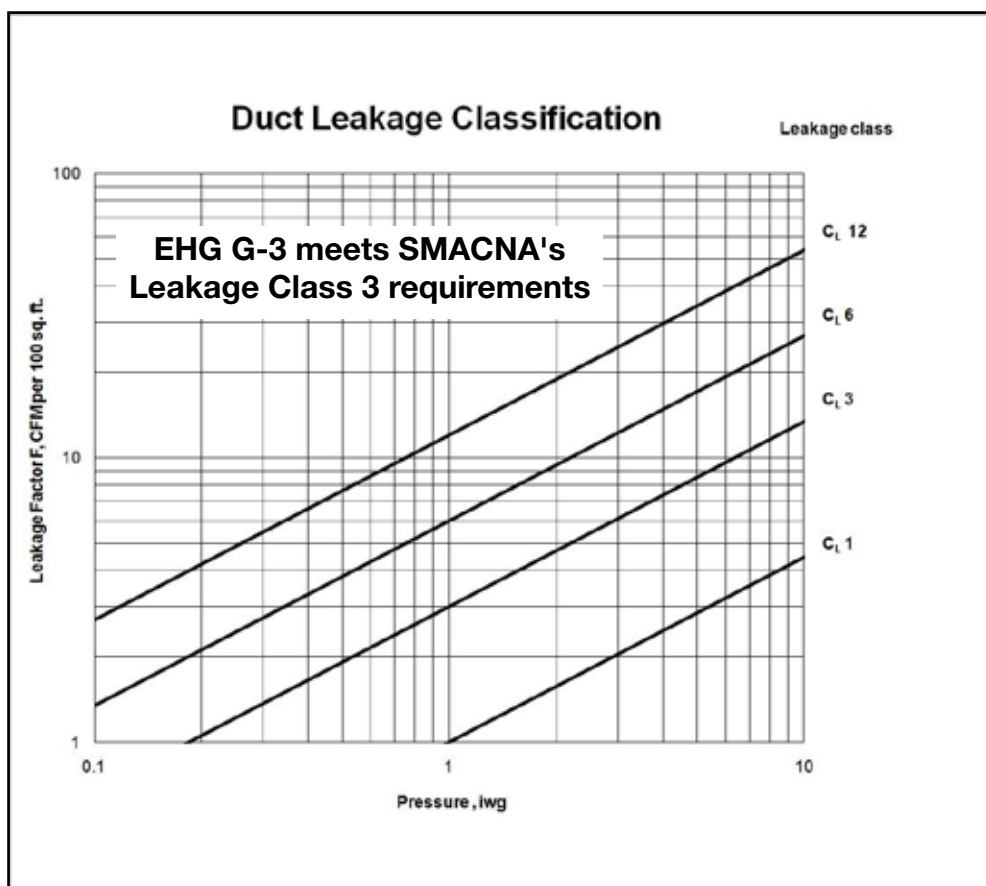
Size	7	9	11	14	20	30
Dia (inch)	3-7	8-11	12-20	22-36	38-58	60

Duct System Leakage Classification

The graph below represents a selected series of leakage classes as defined by the formula $C_L = F/P^{0.65}$. The formula defines leakage class as the relationship between leak rate, duct surface area, and pressure.

Since the calculation of leakage class is based on several relevant factors while percent leakage is based only on overall system air flow, leakage class is a more comprehensive method of assigning allowable leakage rates. This enables the designer to address all major system factors by simply assigning a leakage class.

EHG G-3 meets SMACNA's Leakage Class 3 requirements without the use of any duct sealants.



F = Leak rate per unit of duct surface (cfm/100 sq. ft.)

C_L = Leakage Class

P = Static pressure (iwg)

1985 SMACNA Duct Leakage Guide; used with permission of SMACNA

Assembly Instructions

Preparations for assembly

Check that ducts and fittings to be used in the system are EHG G-3 and are undamaged. All EHG G-3 fittings must be used with calibrated spiral duct certified by EHG.

Do not use ducts or fittings that have been damaged in such a way that they jeopardize the air tightness or structural strength of the system.

Store ducts and fittings in a well-ordered and weatherproof storage area to minimize the risk of damage.

Cut ducts at right angles. Carefully remove any burrs from cut edges. Installation is easier and the risk of damaging the gasket is reduced if there are no burrs.

Assembly

Start by inserting the turned-over edge of the fitting into the duct.

Check that the first lip of the gasket is in contact with the edge of the duct all the way around and sticks straight out so that the lip is not twisted in one direction or the other.

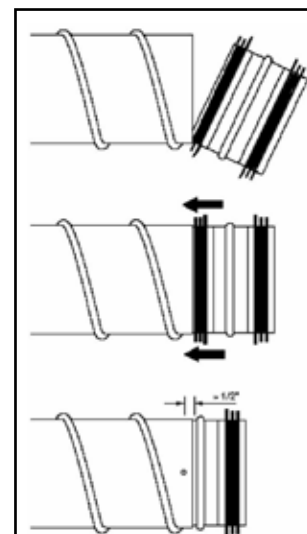
Push the end of the fitting into the duct. Turning the fitting slightly aids insertion. (Removal, if necessary, is also aided by turning.)

Secure the fitting in the duct using self-tapping screws or airtight pop rivets.

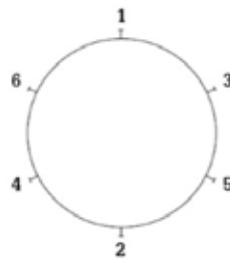
Fasteners should be positioned 1/2" from the bead to prevent damage to the gasket.

Placement of the fastening screws should be opposite from one another evenly spaced around the circumference, much like the procedure for tightening lug nuts on a tire (see diagram). Start where the distance between the duct and the fitting is largest. Screws should be placed approximately 1/2" from the bead in order to avoid damaging the EHG G-3 gasket. In the event of incorrect installation, holes caused by screws or pop rivets must be sealed before reassembly.

Quantities and sizes to be used are listed in the below table.



Duct Dia. (inch)	Screw Dia. (inch)	Quantity
3 - 5	1/8	2
6 - 10	1/8	3
12 - 24	1/8	4
26 - 50	1/8	6
52 - 60	1/8	8



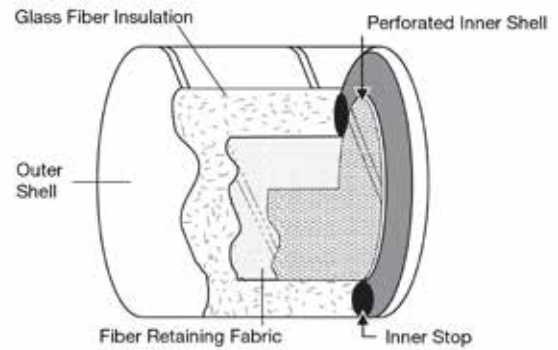
Always start the first fastener at the largest radial gap between fitting and duct. Be sure to achieve even distribution around the circumference.

Carefully seal any holes left by measurements, removed screws, pop rivets, etc.

Specification

Material (*) not available in pressed construction

- Galvanized steel conforming to ASTM standards A653 and A924
- Stainless steel type 304L conforming to ASTM standard A240*
- Stainless steel type 316L conforming to ASTM standard A240*
- Aluminum T3003*



Double Wall

- Tested in accordance to UL-723 with flame developed index and smoke developed index of 0/0.
- Perforated inner liner will consist of 0.125" perforations on 0.250" staggered centers corresponding to an overall open area of 23%.
- Glass fiber insulation will have a maximum conductivity factor (k) of 0.26 BTU-in/hr x ft² x °F at 75°F mean ambient temperature (R=3.8).
- Retaining fabric will be 0.008" thick, 15.6 lb/ft³ density non-woven polyester fabric with an air permeability rate of 9.2 ft³/ft² x s.
- EnergyX™ insulation stop is constructed of a closed-cell elastomeric foam with a maximum conductivity factor (k) of 0.28 BTU-in/hr x ft² x °F and an operating temperature range of -70°F to +220°F.

Surface Finish

- Galvanized steel (galvanized in accordance with latest SMACNA standards).
- Stainless steel type 304L - Mill Finish
- Stainless steel type 316L - 2B Mill Finish
- ProCoat™ (outside only) or ProCoat™ Plus (inside and outside) on duct and/or fittings
 - Standard color = white (additional color options available)
 - Average coating thickness of 4 mils (0.004 inch)
 - Coating to meet or exceed 1,000 hour Salt Spray Test per ASTM B117-97
- Antimicrobial - coating containing antimicrobial compound complies with UL standard - not to exceed flame or smoke developed ratings of 25/50.

Thickness

Material thickness constructed from galvanized steel in accordance with the latest SMACNA's HVAC Duct Construction Standards for +10" water gauge pressure.

Construction

- Duct is of spiral lock seam construction with a mechanically formed seam locking indentation evenly spaced along the spiral seam. All spiral duct 8" diameter and larger shall incorporate multiple corrugations between spiral seams. Inner and outer duct will be of spiral lockseam construction.
- Double wall duct and fittings will consist of a perforated or solid inner liner, 1" thick x 1.0 lb/ft³ layer of glass fiber insulation, and a solid outer pressure shell. When a perforated inner liner is specified, a retaining fabric must be wrapped, between the perforated inner and the glass fiber insulation. This is to prevent glass fiber tearing into the airstream and maintains the desired acoustical properties.
- Double wall options: 1" thick insulation (standard); and 2" thick insulation (optional).
 - The outer pressure shell diameter shall be two times the insulation thickness larger than the inner liner.
 - Fittings shall be manufactured using one or more of the following construction methods:
 - Overlapped edges stitch welded along the entire length of the fitting
 - Standing seam gore locked and internally sealed button punched and internally sealed
 - Elbows 3" through 12" diameter will be die stamped and continuously stitch welded

Specifications

CONNECTIONS

Fitting ends shall be sized to slip-fit into spiral duct of the same nominal size.

JOINT SEALING

Fitting ends are equipped with factory installed, triple-lipped gaskets. When installed in spiral duct per manufacturer's installation instructions, the gasket creates a seal against the interior of the spiral duct. The system tightness shall be factory warranted to meet SMACNA's Leakage Class 3 performance.

EnergyX™ is a foam insulation stop and is included on EHG G-3 product only.

If no gasket is used, all joints must be sealed by the installer during the installation process. The type of sealant used as well as the method and level of application should be as directed by the specification and in accordance with the sealant manufacturer's published installation instructions.

GASKET

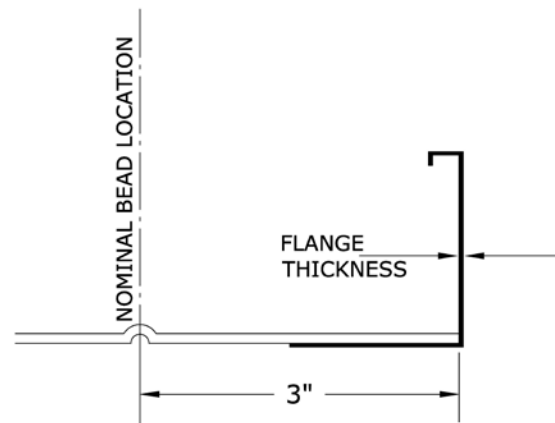
The gasket shall be EPDM rubber. The gasket is located in a groove at the end of the fitting. In order to achieve optimum sealing for all diameters, different size gaskets shall be used. The gasket shall be classified by Underwriters Laboratories for flame spread and smoke developed in accordance with ASTM E84-91a.

NOTE: For systems under negative pressure, please refer to the Industrial Catalog or an EHG representative.

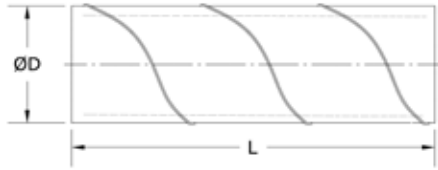
Fitting Slip Dimension

Our products are designed with a male/female slip connections. For gasket (G-3) connections, refer to the e-dimension listed in the chart on page 11. If flanges are utilized, Add 3" per flange plus flange thickness to the published L (length) dimension as shown elsewhere in this catalog as depicted in the diagram to the right.

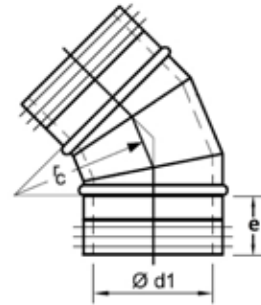
Factory-applied Flange	
Collar Length	Make-up Length
3"	3" + flange thickness



Tolerance, Gauge, & e-dimensions



Tolerance for spiral duct



Tolerance for fittings

ØD (inch)	ØD Tolerance (inch) min. - max.	t* (gauge)	t** (gauge)
3	2.950 - 2.969	28	28
4	3.950 - 3.969	28	28
5	4.950 - 4.969	28	28
6	5.950 - 5.969	28	28
7	6.950 - 6.972	28	28
8	7.950 - 7.972	28	28
9	8.950 - 8.972	28	28
10	9.950 - 9.976	28	28
11	10.950 - 10.976	28	28
12	11.950 - 11.976	28	28
13***	12.950 - 12.976	28	28
14	13.950 - 13.976	28	28
15***	14.936 - 14.969	26	26
16	15.936 - 15.969	26	26
17***	16.936 - 16.969	26	26
18	17.936 - 17.969	26	26
19***	18.936 - 18.967	26	26
20	19.936 - 19.972	26	26
22	21.936 - 21.972	26	26
24	23.936 - 23.976	26	26
26	25.936 - 25.976	24	24
28	27.934 - 27.976	24	24
30	29.924 - 29.969	24	24
32	31.924 - 31.976	24	24
34	33.924 - 33.976	24	24
36	35.924 - 35.988	24	24
38	37.912 - 37.976	24	24
40	39.912 - 39.976	24	24
42	41.912 - 41.976	24	24
44	43.912 - 43.988	22	22
46	45.912 - 45.998	22	22
48	47.912 - 47.988	22	22
50	49.912 - 49.988	22	22
52	51.913 - 51.992	22	22
54	53.913 - 53.992	22	22
56	55.909 - 55.992	22	22
58	57.909 - 57.992	22	22
60	59.909 - 59.992	22	22

Ød ₁ (inch)	Ød ₁ Tolerance (inch) min. - max.	t* (gauge)	Pressed t** (gauge)	Fabricated t** (gauge)	e (inch)
3	2.902 - 2.917	28	24	-----	1.625
4	3.902 - 3.917	28	24	-----	1.625
5	4.902 - 4.917	28	24	-----	1.625
6	5.898 - 5.917	28	24	-----	1.625
7	6.894 - 6.913	28	24	-----	1.625
8	7.890 - 7.913	28	24	-----	1.625
9	8.886 - 8.909	28	24	-----	1.625
10	9.882 - 9.909	28	24	-----	2.375
11	10.882 - 10.909	28	24	-----	2.375
12	11.882 - 11.909	28	24	-----	2.375
13***	12.878 - 12.909	28	-----	-----	2.375
14	13.878 - 13.909	28	-----	24	2.375
15***	14.862 - 14.898	26	-----	-----	3.125
16	15.862 - 15.898	26	-----	24	3.125
17***	16.862 - 16.898	26	-----	-----	3.125
18	17.862 - 17.898	26	-----	24	3.125
19***	18.862 - 18.898	24	-----	-----	3.125
20	19.858 - 19.898	24	-----	24	3.125
22	21.858 - 21.898	24	-----	24	3.125
24	23.854 - 23.898	24	-----	24	3.125
26	25.854 - 25.898	22	-----	22	3.125
28	27.846 - 27.894	22	-----	22	4.000
30	29.839 - 29.886	22	-----	22	4.000
32	31.835 - 31.886	22	-----	22	4.000
34	33.835 - 33.886	22	-----	22	4.000
36	35.831 - 35.886	22	-----	22	4.000
38	37.819 - 37.874	22	-----	20	4.000
40	39.819 - 39.874	22	-----	20	4.750
42	41.819 - 41.874	22	-----	20	4.750
44	43.815 - 43.874	20	-----	20	4.750
46	45.815 - 45.874	20	-----	20	4.750
48	47.815 - 47.874	20	-----	20	4.750
50	49.815 - 49.874	20	-----	20	4.750
52	51.811 - 51.874	20	-----	20	4.750
54	53.811 - 53.874	20	-----	20	4.750
56	55.799 - 57.862	20	-----	20	4.750
58	57.799 - 57.862	20	-----	20	4.750
60	59.795 - 59.862	20	-----	20	4.750

* In accordance with the latest SMACNA HVAC Duct Construction Standards for +10" wg

** EHG Manufacturing Standard

*** " — " = Not currently available

Tolerances for Spiral

Material Specifications

EHG components are made of galvanized sheet ASTM A653/A924.

Duct and fittings are also available in the following materials:

- G60
- G90
- 304 stainless steel ASTM A240*
- 316 stainless steel ASTM A240*
- Coated
- Agion
- Antimicrobial
- Aluminum*

(*) not available in pressed construction

DOUBLE WALL:

Tested in accordance to UL-723 with flame developed index and smoke developed index of 0/0.

Perforated Metal Liner (double wall duct only):

Consists of 0.125" perforations on 0.250" staggered centers and 23% open area. Perforated liner is available in galvanized only. All double wall fittings are manufactured with a solid inner liner; a perforated liner is available upon request.

Insulation (EHG G-3 only):

1" thick x 1.0 lb/ft³, k = 0.26 BTU-in/hr x ft² x °F at 75°F mean ambient temperature (R=3.8). Optional: 1", 2", 3" and 4" (1" & 2" EHG G-3 only).

Insulation stop (EHG G-3 only):

k = 0.28 BTU-in/hr x ft² x °F at 75°F mean ambient temperature.

Retaining Fabric:

Non-woven polyester fabric, 0.008" thick, 15.6 lb/ft³ and air permeability rate of 9.2 ft³/ft² x s.

Length Tolerances

Length -L, H, e, D, d	Tolerances
inch	inch
1 - 10	± 3/8
12 - 16	± 5/8
18 - 28	± 3/4
30 - 50	± 1
52 - 60	± 1 1/4

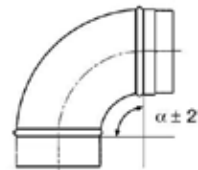
Weight Tolerance

±10%

Thickness Tolerance

±10%

Angular Tolerance



Surface/Finish

Die stamped products of G90 construction.

Stainless steel 316L fittings provided with a 2B mill finish.

Coated products have a minimum surface hardness of 2H when tested per ASTM D33-63-92A with an average thickness of 4 mils inside and out. ProCoat™ (OD only) or ProCoat™ Plus (ID & OD) coated duct.

Antimicrobial coated spiral duct and fittings are made from G60 galvanized steel treated with a factory applied antimicrobial agent.

Acoustical Performance

NET INSERTION LOSS

Standard 1" thick double wall with perforated inner

Duct Diameter (in)	Insulation Thickness (in)	Velocity (fpm)	Octave Band / Frequency (Hz)							
			1	2	3	4	5	6	7	8
			63	125	250	500	1000	2000	4000	8000
6	1	0	0.3	0.5	1.2	2.1	2.5	2.3	2.3	2.1
		1000	0.2	0.5	1.2	2.1	2.3	2.3	2.3	2.2
		2000	0.2	0.5	1.2	2.1	2.5	2.4	2.3	2.3
		3000	0.1	0.5	1.2	2.1	2.2	2	2.3	2.3
2	1	0	0.1	0.3	0.7	1.7	2.5	2.5	1.9	1.6
		1000	0.1	0.3	0.7	1.6	2.5	2.5	2	1.7
		2000	0.1	0.3	0.7	1.6	2.4	2.5	2.1	1.8
		3000	0.1	0.3	0.7	1.5	2	2.1	2.1	1.9
18	1	0	0.3	0.3	0.6	1.5	2.5	2.3	1.6	1.4
		1000	0.3	0.3	0.6	1.4	2.6	2.4	1.6	1.4
		2000	0.2	0.2	0.6	1.4	2.5	2.3	1.6	1.4
		3000	0.2	0.1	0.6	1.3	2.3	2.3	1.5	1.4
24	1	0	0.2	0.2	0.5	1.2	2.7	1.7	1.3	1.4
		1000	0.2	0.2	0.5	1.2	2.7	1.6	1.3	1.2
		2000	0.2	0.2	0.5	1.2	2.7	1.6	1.2	1.2
		3000	0.3	0.2	0.4	1.1	2.6	1.7	1.2	1.3
30	1	0	0.1	0.2	0.4	1.3	2.1	1.3	1.2	1.2
		1000	0.1	0.2	0.4	1.3	2.1	1.2	1.1	1.1
		2000	0.1	0.2	0.4	1.3	2.1	1.2	1.1	1.1
		3000	0.1	0.2	0.4	1.3	2	1.2	1	1.1
36	1	0	0.1	0.2	0.3	1.1	1.6	1.2	1	0.9
		1000	0.1	0.2	0.3	1.1	1.6	1.1	0.9	0.9
		2000	0.1	0.2	0.3	1.1	1.6	1	0.9	0.9
		3000	0.1	0.2	0.3	1	1.5	1	0.9	0.9
42	1	0	0.1	0.1	0.3	1.1	1.2	1	0.8	0.8
		1000	0.1	0.2	0.3	1.1	1.1	1	0.7	0.6
		2000	0.1	0.2	0.3	1.1	1	0.9	0.7	0.6
		3000	0.1	0.2	0.3	1	1	0.9	0.7	0.6

- The Net Insertion Loss chart represents tests performed by an independent testing laboratory in accordance with ASTM standard E477-96, entitled "Standard Method of Testing Duct Liner Materials and Prefabricated Silencers for Acoustical and Airflow Performance". Data for test specimens with inside diameters of 6", 12", 18", 24", 30", 36" and 42" were recorded for 20' lengths of duct and then divided to obtain the dB/foot ratings.
- Insertion loss gains of approximately 0.25 to 0.50 dB/ft in the 4th, 5th, and 6th octave bands were recorded for 24" diameter duct with 2" thick insulation. Gains were negligible in the 1st, 2nd, 3rd, 7th and 8th octave bands.
- Data recorded for a 30' section of 24" diameter duct indicates an average gain of 1 dB in the 2nd octave band, 3 dB in the 3rd octave band, 9 dB in the 4th octave band, 1 dB in the 5th octave band, 4 dB in the 6th octave band, 4 dB in the 7th octave band and 3 dB in the 8th octave band. These gains were the average for insertion loss data collected at 0, 1000, 2000 and 3000 fpm with 0.000, 0.006, 0.031, and 0.070 inch water gauge respectively.
- Data was not collected for duct lengths greater than 30'. However, the results for the 30' test indicate the insertion loss gains diminish with longer duct lengths. For this reason, the data in the above table should be considered valid only for sections of duct 20' or less in length. In addition, data was not collected for larger diameter duct. As the test data indicates, insertion loss decreases with increasing duct diameters.
- The self-generated noise for double wall duct is too low to be measured by ASTM E477-96. The measurements obtained for these ducts are equal to the corresponding single wall duct reference condition or are within +/- 10 dB per ASTM E477-96 section 9.1.2.
- Reduced breakout noise in double wall duct with outer diameter 14" and larger is attributed to double corrugation which increases rigidity and minimizes the area of the outer shell that allows sound waves to break out of the system.

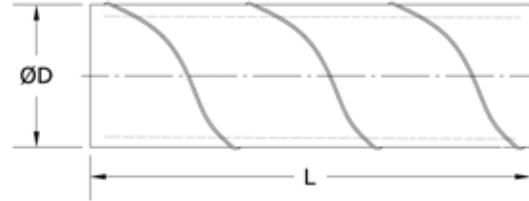
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Spiral Duct

SRI/SRVI

14



Description

spiral lock seam duct

- SMACNA RL-1 spiral seam
- evenly spaced integral seam locking feature
- multiple corrugations on all duct 8" diameter and larger
- standard length: 120"
- standard inner liner: perforated
 - solid inner liner optional
- built in accordance with the latest SMACNA HVAC Duct Construction Standard for +10 iwg
- diameters available in nongasketed systems (SRVI) 3" - 60"
- diameters available in gasketed systems (SRI) 3" - 58" for 1" insulation and 3" - 56" for 2" insulation

Dimensions

Standard length is 120" or 10'. Also available in lengths of 12" to 240"; aluminum is the exception with a maximum 120" length. Duct with $\text{Ø} \geq 12"$ has a minimum length of 16".

Order Example

USED with EHG G-3
SRI - ØD - L

with EHG Nongasketed
SRVI - ØD - L

All sizes refer to inside dimensions. EHG G-3 comes with 1" insulation thicknesses standard and 2" as an option. 3" and 4" thicknesses are available in nongasketed only.

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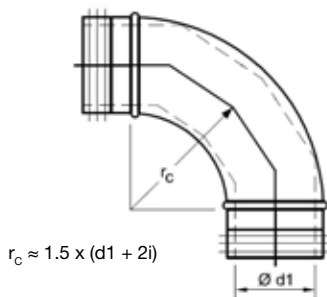
Elbows



Description

90° elbow

- inner shell
 - solid, die-stamped
 - continuously stitch welded
- outer shell
 - die stamped
 - continuously stitch welded
 - rolled edges
- available in Ø 3"-10" with 1" insulation
 - optional: 2" insulation in Ø 3"-8"



Order Example

EHG G-3
BSGI 90 - Ød1

EHG Nongasketed
BSI 90 - Ød1

BSGI 90 / BSFGI 90

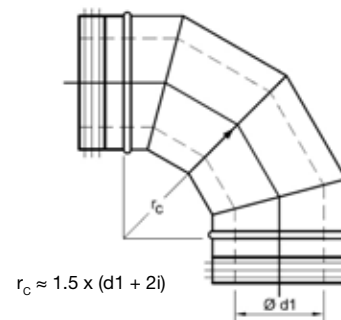


15

Description

90° elbow

- inner shell
 - solid, gored
- outer shell
 - 5-gore standing seam
 - gore locked and internally sealed
 - rolled edges
- note: BF/G 90 elbows 48-inch diameter and larger will be supplied as two BF/G 45° elbows and an MF coupling
- available in Ø 12"-58" with 1" insulation
 - optional: 2" insulation in Ø 8"-56"



Order Example

EHG G-3
BSFGI 90 - Ød1

EHG Nongasketed
BSFI 90 - Ød1

All sizes refer to inside dimensions. EHG G-3 comes with 1" insulation thicknesses standard and 2" as an option. 3" and 4" thicknesses are available in nongasketed only.

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Elbows

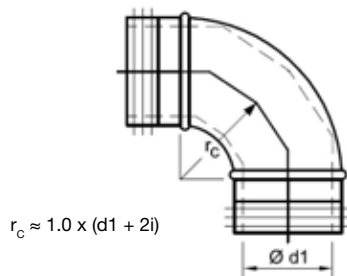
16



Description

90° elbow

- inner shell
 - solid, die-stamped
 - continuously stitch welded
- outer shell
 - die stamped
 - continuously stitch welded
 - rolled edges
- available in Ø 3"-10" with 1" insulation
 - optional: 2" insulation in Ø 3"-8"



Order Example

EHG G-3
BGI 90 - Ød1

EHG Nongasketed
BI 90 - Ød1

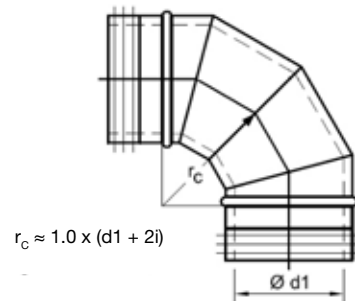
BGI 90 / BFGI 90



Description

90° elbow

- inner shell
 - solid, gored
- outer shell
 - 4-piece gored, standing seam
 - gore locked and internally sealed
- available in Ø 12"-58" with 1" insulation
 - optional: 2" insulation in Ø 8"-56"
- note: BF/G 90 elbows 48-inch diameter and larger will be supplied as two BF/G 45° elbows and an MF coupling



Order Example

EHG G-3
BFGI 90 - Ød1

EHG Nongasketed
BFI 90 - Ød1

All sizes refer to inside dimensions. EHG G-3 comes with 1" insulation thicknesses standard and 2" as an option. 3" and 4" thicknesses are available in nongasketed only.

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Elbows

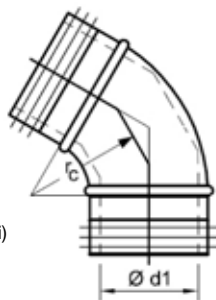
BGI 60 / BFGI 60



Description

60° elbow

- inner shell
 - solid, die stamped
 - continuous stitch welded
- outer shell
 - die-stamped
 - continuously stitch welded
 - rolled edges
- available in Ø 3"-10" with 1" insulation
 - optional: 2" insulation in Ø 3"-8"



Order Example

EHG G-3
BGI 60 - Ød1

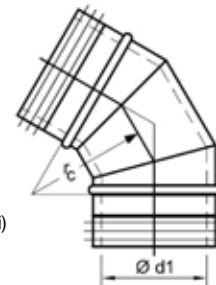
EHG Nongasketed
BI 60 - Ød1



Description

60° elbow

- inner shell
 - solid, gored
- outer shell
 - 3-piece gored, standing seam
 - gore locked and internally sealed
- available in Ø 12"-58" with 1" insulation
 - optional: 2" insulation in Ø 8"-56"



Order Example

EHG G-3
BFGI 60 - Ød1

EHG Nongasketed
BFI 60 - Ød1

All sizes refer to inside dimensions. EHG G-3 comes with 1" insulation thicknesses standard and 2" as an option. 3" and 4" thicknesses are available in nongasketed only.

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Elbows

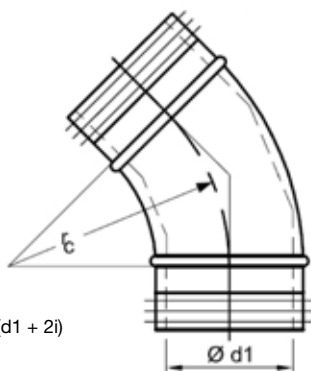
18



Description

45° elbow

- inner shell
 - solid, die stamped
 - continuous stitch welded
- outer shell
 - die-stamped
 - continuous stitch welded
 - rolled edges
- available in Ø 3"-10" with 1" insulation
 - optional: 2" insulation in Ø 3"-8"
- note: 11" diameter is fabricated



Order Example

EHG G-3
BSGI 45 - Ød1

EHG Nongasketed
BSI 45 - Ød1

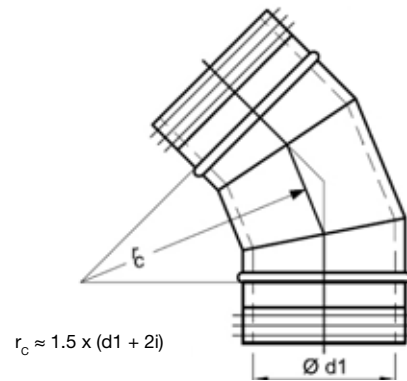
BSGI 45 / BSFGI 45



Description

45° elbow

- inner shell
 - solid, gored
- outer shell
 - 3-piece gored, standing seam
 - gore locked and internally sealed
 - rolled edges
- available in Ø 12"-58" with 1" insulation
 - optional: 2" insulation in Ø 8"-56"



Order Example

EHG G-3
BSFGI 45 - Ød1

EHG Nongasketed
BSFI 45 - Ød1

All sizes refer to inside dimensions. EHG G-3 comes with 1" insulation thicknesses standard and 2" as an option. 3" and 4" thicknesses are available in nongasketed only.

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Elbows

BGI 45 / BFGI 45



Description

45° elbow

- inner shell
 - solid, die stamped
 - continuous stitch welded
- outer shell
 - die-stamped
 - continuously stitch welded
 - rolled edges
- available in Ø 3"-10" with 1" insulation
 - optional: 2" insulation in Ø 3"-8"



$$r_c \approx 1.0 \times (d1 + 2i)$$

Order Example

EHG G-3
BGI 45 - Ød1

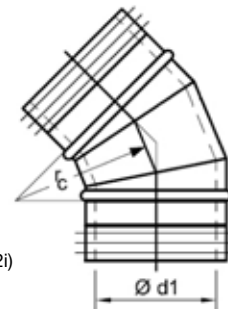
EHG Nongasketed
BI 45 - Ød1



Description

45° elbow

- inner shell
 - solid, gored
- outer shell
 - 3-piece gored, standing seam
 - gore locked and internally sealed
 - rolled edges
- available in Ø 12"-58" with 1" insulation
 - optional: 2" insulation in Ø 8"-56"



$$r_c \approx 1.0 \times (d1 + 2i)$$

Order Example

EHG G-3
BFGI 45 - Ød1

EHG Nongasketed
BFI 45 - Ød1

All sizes refer to inside dimensions. EHG G-3 comes with 1" insulation thicknesses standard and 2" as an option. 3" and 4" thicknesses are available in nongasketed only.

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Elbows

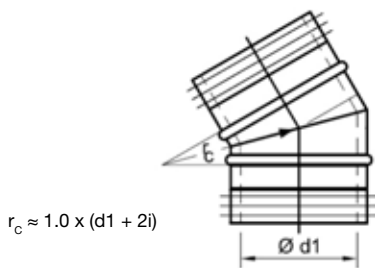
20



Description

30° elbow

- inner shell
 - solid, die stamped
 - continuous stitch welded
- outer shell
 - die-stamped
 - continuous stitch welded
 - rolled edges
- available in Ø 3"-10" with 1" insulation
 - optional: 2" insulation in Ø 3"-8"



Order Example

EHG G-3
BGI 30 - Ød1

EHG Nongasketed
BI 30 - Ød1

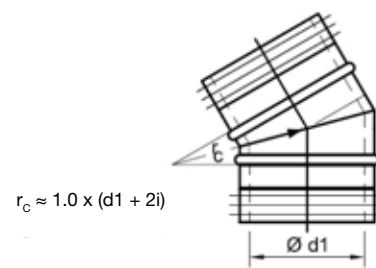
BGI 30 / BFGI 30



Description

30° elbow

- inner shell
 - solid, gored
- outer shell
 - 2-piece gored, standing seam
 - gore locked and internally sealed
 - rolled edges
- available in Ø 12"-58" with 1" insulation
 - optional: 2" insulation in Ø 8"-56"



Order Example

EHG G-3
BFGI 30 - Ød1

EHG Nongasketed
BFI 30 - Ød1

All sizes refer to inside dimensions. EHG G-3 comes with 1" insulation thicknesses standard and 2" as an option. 3" and 4" thicknesses are available in nongasketed only.

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Elbows

BGI 15 / BFGI 15



Description

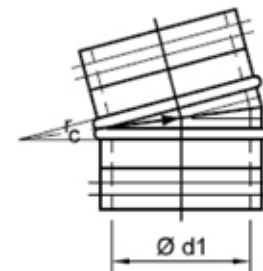
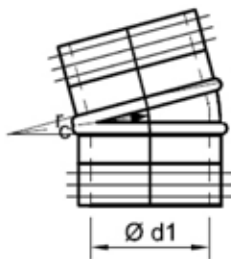
15° elbow

- inner shell
 - solid, die stamped
 - continuous stitch welded
- outer shell
 - die-stamped
 - continuous stitch welded
 - rolled edges
- available in Ø 3"-10" with 1" insulation
 - optional: 2" insulation in Ø 3"-8"

Description

15° elbow

- inner shell
 - solid, gored
- outer shell
 - 2-piece gored, standing seam
 - gore locked and internally sealed
 - rolled edges
- available in Ø 12"-58" with 1" insulation
 - optional: 2" insulation in Ø 8"-56"



Order Example

EHG G-3
BGI 15 - Ød1

EHG Nongasketed
BI 15 - Ød1

Order Example

EHG G-3
BFGI 15 - Ød1

EHG Nongasketed
BFI 15 - Ød1

All sizes refer to inside dimensions. EHG G-3 comes with 1" insulation thicknesses standard and 2" as an option. 3" and 4" thicknesses are available in nongasketed only.

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Elbows

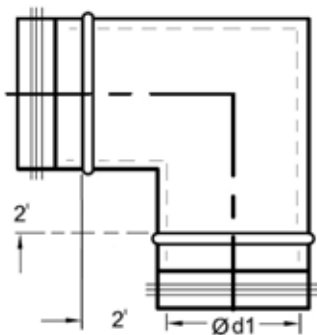
22



Description

mitered elbow

- rolled edge
- 2" standard throat length
- available in $\text{\O} 4''\text{-}58''$ with 1" insulation
 - optional: 2" insulation in $\text{\O} 4''\text{-}56''$



Order Example

EHG G-3
BMGI - $\text{\O}d1$

EHG Nongasketed
BMI - $\text{\O}d1$

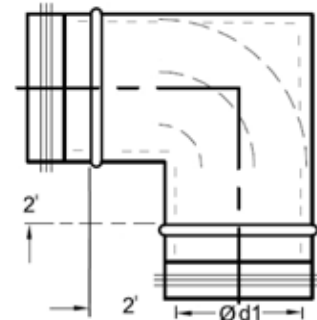
BMGI / BMVGI



Description

mitered elbow with vanes

- rolled edge
- 2" standard throat length
- turning vanes evenly spaced
- number of vanes vary by diameter
 - $\text{\O} 4''\text{-}10'' = 2$ vanes
 - $\text{\O} 12''\text{-}14'' = 3$ vanes
 - $\text{\O} 16''\text{-}20'' = 4$ vanes
 - $\text{\O} 22''\text{-}58'' = 5$ vanes
- available in $\text{\O} 4''\text{-}58''$ with 1" insulation
 - optional: 2" insulation in $\text{\O} 4''\text{-}56''$



Order Example

EHG G-3
BMVGI - $\text{\O}d1$

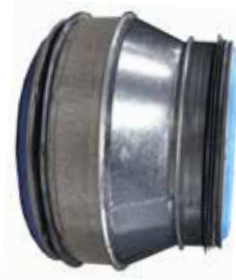
EHG Nongasketed
BMVI - $\text{\O}d1$

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Reducers

RCGI



Description

concentric reducer

- inner shell fabricated
- galvanized construction only

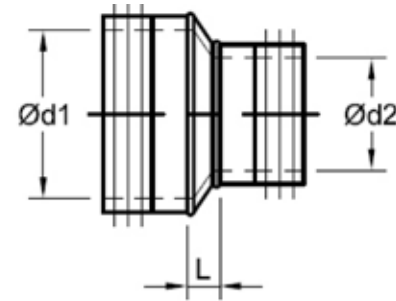
Dimension (fabricated outer shell)

Ød1 inch	Ød2 inch	L inch
9	6	2
10	5	2 ⁵ / ₈
12	9	2
14	8	3
16	8	4
16	10	3
16	12	2
16	14	2
18	8	5
18	10	4
18	12	3
18	14	2
18	16	2

Order Example

EHG G-3
RCGI - Ød1- Ød2

EHG Nongasketed
RCI - Ød1- Ød2



Dimension (die-stamped outer shell)

Ød1 inch	Ød2 inch	L inch
4	3	¾
5	3	1½
5	4	1
6	3	1 ⁵ / ₈
6	4	1¼
6	5	¾
7	4	1 ⁵ / ₈
7	5	2 ¹ / ₈
7	6	1 ¹ / ₈
8	4	2¼
8	5	1 ⁵ / ₈
8	6	1 ¹ / ₈
8	7	¾
9	7	2 ¹ / ₈
9	8	1 ¹ / ₈
10	6	2 ¹ / ₈
10	7	1 ⁵ / ₈
10	8	1 ¹ / ₈
10	9	¾
12	8	2 ³ / ₈
12	10	1 ³ / ₈
14	10	2
14	12	7 ¹ / ₈

All sizes refer to inside dimensions. EHG G-3 comes with 1" insulation thicknesses standard and 2" as an option. 3" and 4" thicknesses are available in nongasketed only.

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Reducers

RCFGI

24



Description

concentric reducer

- ØD = duct size slips over fitting end
- inner shell fabricated
- galvanized construction only

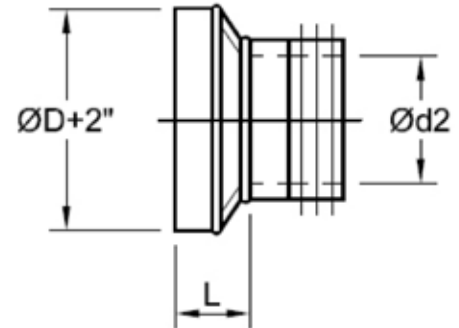
Dimension (fabricated outer shell)

Ød1	Ød2	L
inch	inch	inch
9	6	3 $\frac{1}{4}$
10	5	4 $\frac{1}{4}$
12	8	4 $\frac{3}{4}$
12	9	4 $\frac{3}{8}$
14	8	6 $\frac{1}{8}$
16	8	7 $\frac{1}{8}$
16	10	6 $\frac{1}{8}$
16	12	5 $\frac{1}{8}$
16	14	5 $\frac{1}{8}$
18	8	8 $\frac{1}{8}$
18	10	7 $\frac{1}{8}$
18	12	6 $\frac{1}{8}$
18	14	5 $\frac{1}{8}$
18	16	5 $\frac{1}{8}$

Order Example

EHG G-3
RCFGI - ØD - Ød2

EHG Nongasketed
RCFI - ØD - Ød2



Dimension (die stamped outer shell)

Ød1	Ød2	L
inch	inch	inch
4	3	2 $\frac{3}{8}$
5	3	3
5	4	2 $\frac{1}{2}$
6	3	2 $\frac{7}{8}$
6	4	2 $\frac{7}{8}$
6	5	2 $\frac{7}{8}$
7	4	3 $\frac{1}{4}$
7	5	3 $\frac{3}{4}$
7	6	2 $\frac{3}{4}$
8	4	3 $\frac{3}{8}$
8	5	3 $\frac{1}{4}$
8	6	2 $\frac{3}{4}$
8	7	2 $\frac{1}{4}$
9	7	3 $\frac{3}{4}$
9	8	2 $\frac{3}{4}$
10	6	4 $\frac{3}{8}$
10	7	4 $\frac{3}{8}$
10	8	2 $\frac{3}{4}$
10	9	2 $\frac{1}{4}$
12	10	3 $\frac{5}{8}$
14	10	5 $\frac{1}{8}$
14	12	5 $\frac{1}{8}$

All sizes refer to inside dimensions. EHG G-3 comes with 1" insulation thicknesses standard and 2" as an option. 3" and 4" thicknesses are available in nongasketed only.

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Reducers

RCLGI/RLGI

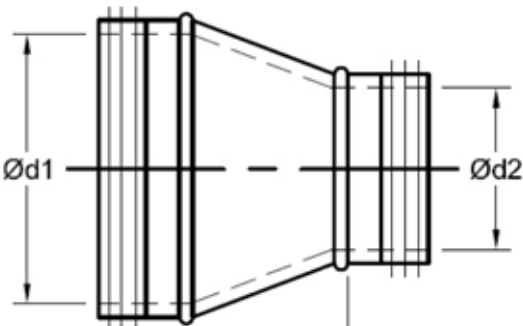


Description

fabricated concentric reducer

• $L1 = (\text{Ø}d1 + 2i) - (\text{Ø}d2 + 2i)^*$

(*) minimum 4"



Order Example

EHG G-3
RCLGI - Ød1- Ød2

EHG Nongasketed
RCLI - Ød1- Ød2

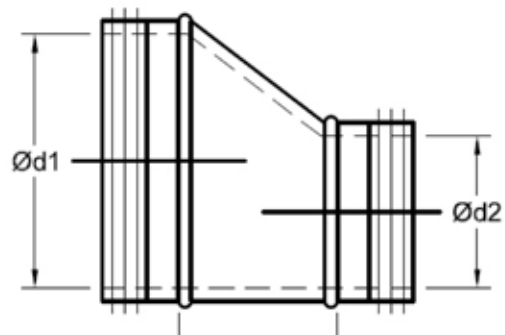


Description

fabricated eccentric reducer

• $L1 = (\text{Ø}d1 + 2i) - (\text{Ø}d2 + 2i)^*$

(*) minimum 4"



Order Example

EHG G-3
RLGI - Ød1- Ød2

EHG Nongasketed
RLI - Ød1- Ød2

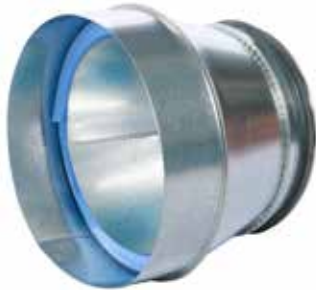
All sizes refer to inside dimensions. EHG G-3 comes with 1" insulation thicknesses standard and 2" as an option. 3" and 4" thicknesses are available in nongasketed only.

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Reducers

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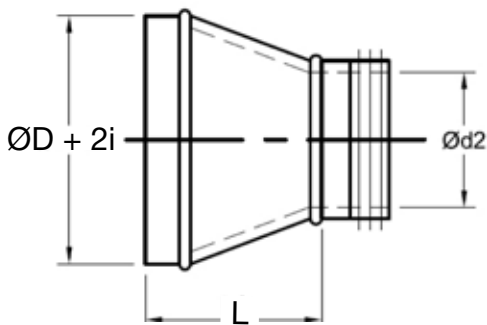


Description

fabricated concentric reducer

- $\text{ØD} + 2i$ = duct size slips over EHG G-3 double wall fittings
- $L = [(\text{ØD1} + 2i) - (\text{Ød2} + 2i)]^* + e$ dimension

(*) minimum 4"



Order Example

EHG G-3

RCLFGI - ØD - Ød2

EHG Nongasketed

RCLFI - ØD - Ød2

RCLFGI/RLFGI

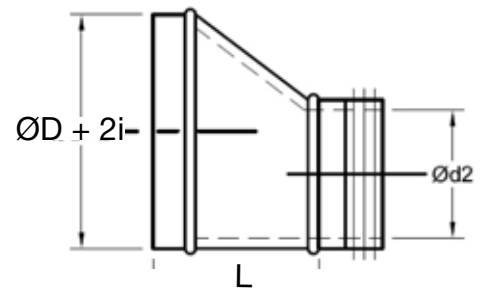


Description

fabricated eccentric reducer

- $\text{ØD} + 2i$ = duct size slips over EHG G-3 double wall fittings
- $L = [(\text{ØD} + 2i) - (\text{Ød2} + 2i)]^* + e$ dimension

(*) minimum 4"



Order Example

EHG G-3

RLFGI - ØD - Ød2

EHG Nongasketed

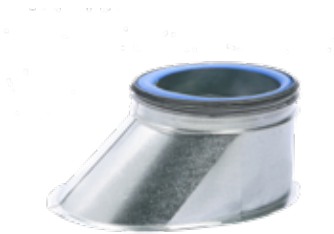
RLF - ØD - Ød2

All sizes refer to inside dimensions. EHG G-3 comes with 1" insulation thicknesses standard and 2" as an option. 3" and 4" thicknesses are available in nongasketed only.

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Taps



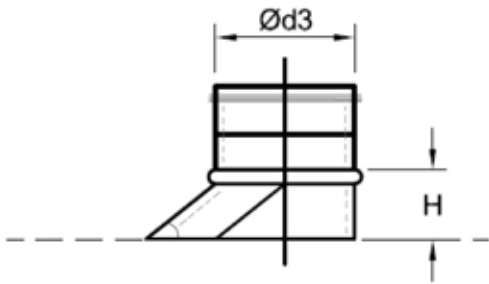
Description

45° boot-style tap

- New One Piece Design
- No assembly needed
- installed on flat side of duct or plenum

Dimension

- If $\text{Ød3} + 2i \leq 8"$ H = 4"
- If $\text{Ød3} + 2i = 9"-14"$, H = 7"
- If $\text{Ød3} + 2i = 15"-26"$, H = 10"
- If $\text{Ød3} + 2i = 27"-46"$, H = 13"
- If $\text{Ød3} + 2i = 47"-60"$, H = 16"



Order Example

EHG G-3
TBSGI- Ød3

EHG Nongasketed
TBSI- Ød3

TBSGI/TBSRGI

27



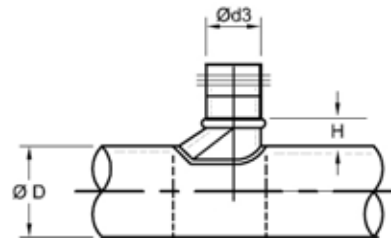
Description

45° combination boot-style saddle tap

- New One Piece Design
- No assembly needed

Dimension

- If $\text{Ød3} + 2i \leq 8"$, H = 4"
- If $\text{Ød3} + 2i = 9"-14"$, H = 7"
- If $\text{Ød3} + 2i = 15"-26"$, H = 10"
- If $\text{Ød3} + 2i = 27"-46"$, H = 13"
- If $\text{Ød3} + 2i = 47"-60"$, H = 16"



Order Example

EHG G-3
TBSRGI - ØD - Ød3

EHG Nongasketed
TBSRI - ØD - Ød3

All sizes refer to inside dimensions. EHG G-3 comes with 1" insulation thicknesses standard and 2" as an option. 3" and 4" thicknesses are available in nongasketed only.

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Taps

PSGI

28



pressed PSGI



fabricated PSGI

Description

saddle tap

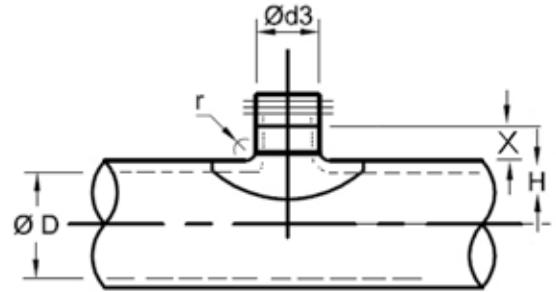
- New One Piece Design
- No assembly needed
- pressed:
 - radius entry
 - limited to galvanized steel only
 - available in Ød3 or tap diameters 3"-16", exceptions listed below
 - X-dimensions listed on right
- fabricated
 - sizes listed below
 - X = 1"

Fabricated Sizes										
Ød3	ØD									
	8	9	10	12	14	16	18	20	22	24
3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
7					✓	✓	✓	✓	✓	✓
12										✓
14					✓	✓	✓	✓	✓	✓

Order Example

EHG G-3
PSGI - ØD - Ød3

EHG Nongasketed
PSI - ØD - Ød3



Dimension

• $H = X + 0.5(\text{ØD})$

X - Dimensions		
Ød3 (inch)	Pressed (inch)	Fab (inch)
3	¾	1
4	1	1
5	1	1
6	1	1
7	1	1
8	1	1
9	1	1
10	1½	1
12	n/a	1
14	¾	1
16	7/8	1
18	n/a	1
20	n/a	1
22	n/a	1
24	n/a	1
For Ød3 ≥ 24", X = 1"		

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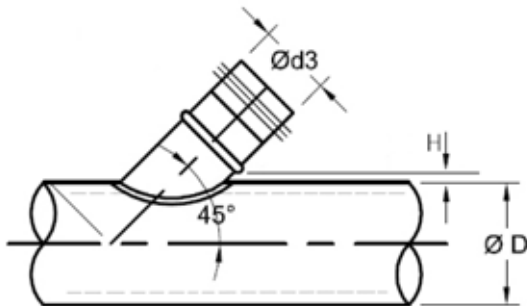
Taps



Description

fabricated 45° lateral tap for round

- New One Piece Design
- No assembly needed
- H = 2.5"
- special order: 15°, 30°, 60°
i.e. PSVU 15° - aa - bb



Order Example

EHG G-3

PSVGI45 - ØD - Ød3

EHG Nongasketed

PSVI45 - ØD - Ød3

PSVGI45/PSVGFI45

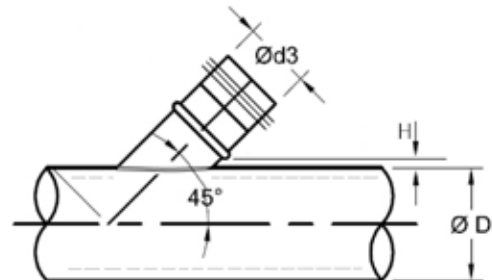


29

Description

fabricated 45° lateral tap for flat surface

- New One Piece Design
- No assembly needed
- H = 2.5"
- special order: 15°, 30°, 60°
i.e. PSVUF 15° - aa - bb



Order Example

EHG G-3

PSVGFI45 - Ød3

EHG Nongasketed

PSVFI45 - Ød3

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Taps

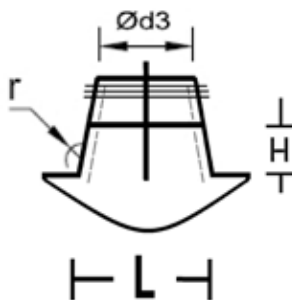
30



Description

conical saddle tap

- New One Piece Design
- No assembly needed
- H = 6"
- L = $\text{Ød3} + 2i + 2$



Order Example

EHG G-3
PSCGI - ØD- Ød3

EHG Nongasketed
PSCI - ØD- Ød3

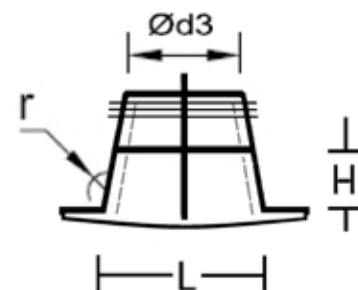
PSCGI/CTFGI



Description

conical tap for flat surface

- New One Piece Design
- No assembly needed
- H = 6"
- L = $\text{Ød3} + 2i + 2$
- flat lip = $\frac{3}{8}$ " - $\frac{5}{8}$ " depending on diameter
- offered in standard 2" reducing pairs



Order Example

EHG G-3
CTFGI - Ød3

EHG Nongasketed
CTFI - Ød3

All sizes refer to inside dimensions. EHG G-3 comes with 1" insulation thicknesses standard and 2" as an option. 3" and 4" thicknesses are available in nongasketed only.

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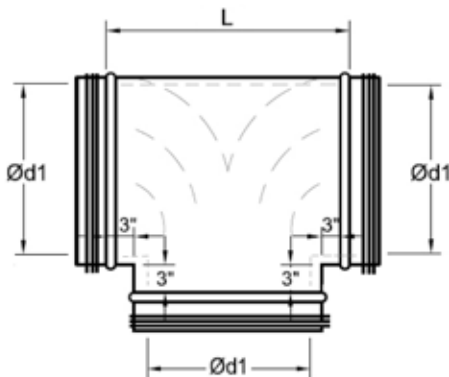
Tees



Description

bullhead tee

- $L = \text{Ød1} + 6'' + 2i$



Order Example

EHG G-3

BHTGI - Ød1

EHG Nongasketed

BHTI - Ød1

BHTGI/BHTRGI



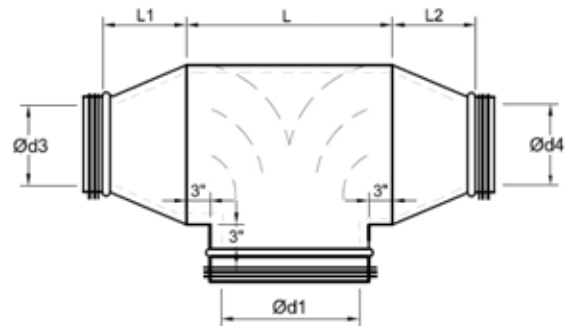
31

Description

bullhead reducing tee

- $L = \text{Ød1} + 6'' + 2i$
- $L1 = (\text{Ød1} - \text{Ød3})^*$
- $L2 = (\text{Ød1} - \text{Ød4})^*$

(*) minimum 4"



Order Example

EHG G-3

BHTRGI - Ød1- Ød3- Ød4

EHG Nongasketed

BHTRI - Ød1- Ød3- Ød4

All sizes refer to inside dimensions. EHG G-3 comes with 1" insulation thicknesses standard and 2" as an option. 3" and 4" thicknesses are available in nongasketed only.

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Tees

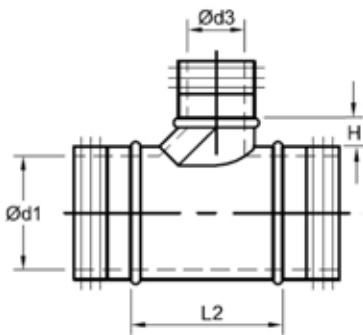
32



Description

45° boot-style tee

- assembled with TBSRGI tap
- $\text{Ød3} \leq \text{Ød1}$
- $L2 = \text{Ød3} + 2i + H2 + 4"$
- If $\text{Ød3} + 2i \leq 8"$, $H2 = 4"$,
If $\text{Ød3} + 2i = 9-14"$, $H2 = 7"$,
If $\text{Ød3} + 2i = 15-26"$, $H2 = 10"$,
If $\text{Ød3} + 2i = 27-46"$, $H2 = 13"$, and
If $\text{Ød3} + 2i = 47-60"$, $H2 = 16"$.



Order Example

EHG G-3
TBGI - Ød1- Ød3

EHG Nongasketed
TBI - Ød1- Ød3

TBGI/TBRGI

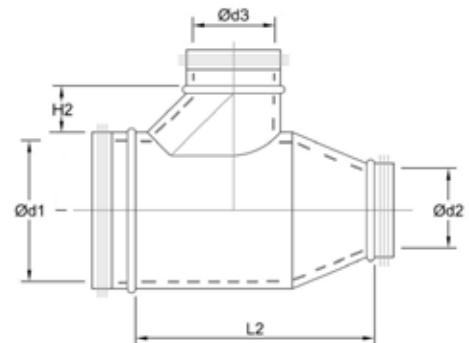


Description

45° boot-style tee with reducer

- assembled with TBSRGI tap
- $\text{Ød3} \leq \text{Ød1}$
- $L2 = (\text{Ød3} + 2i + H2 + 4") + [(\text{Ød1} + 2i) - (\text{Ød2} + 2i)]^*$
- If $\text{Ød3} + 2i \leq 8"$, $H2 = 4"$,
If $\text{Ød3} + 2i = 9-14"$, $H2 = 7"$,
If $\text{Ød3} + 2i = 15-26"$, $H2 = 10"$,
If $\text{Ød3} + 2i = 27-46"$, $H2 = 13"$, and
If $\text{Ød3} + 2i = 47-60"$, $H2 = 16"$.

(*) minimum of 4"



Order Example

EHG G-3
TBRGI - Ød1- Ød2 - Ød3

EHG Nongasketed
TBRI - Ød1 - Ød2- Ød3

All sizes refer to inside dimensions. EHG G-3 comes with 1" insulation thicknesses standard and 2" as an option. 3" and 4" thicknesses are available in nongasketed only.

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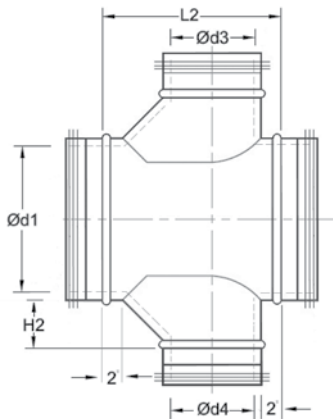
Crossing Tees



Description

45° boot-style crossing tee

- assembled with TBSRGI taps
- Ød3 and $\text{Ød4} \leq \text{Ød1}$
- $\text{Ød4} \leq \text{Ød3}$
- $L = \text{Ød3} + 2i + H2 + 4"$
- If $\text{Ød3} + 2i \leq 8"$, $H2 = 4"$,
- If $\text{Ød3} + 2i = 9-14"$, $H2 = 7"$,
- If $\text{Ød3} + 2i = 15-26"$, $H2 = 10"$,
- If $\text{Ød3} + 2i = 27-46"$, $H2 = 13"$, and
- If $\text{Ød3} + 2i = 47-60"$, $H2 = 16"$.



Order Example

EHG G-3 **EHG Nongasketed**
 XBGI - $\text{Ød1}-\text{Ød3}-\text{Ød4}$ XBI - $\text{Ød1}-\text{Ød3}-\text{Ød4}$

XBGI/XBRGI

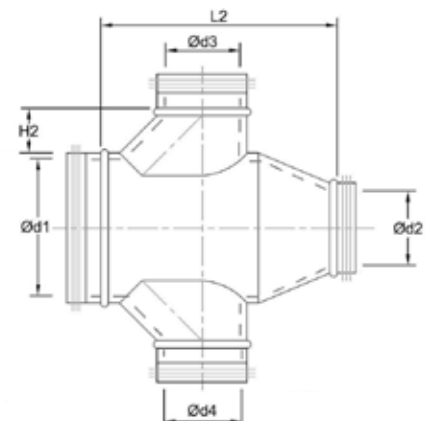


Description

45° boot-style crossing tee with reducer

- assembled with TBSRGI taps
- Ød3 and $\text{Ød4} \leq \text{Ød1}$
- $\text{Ød4} \leq \text{Ød3}$
- $L = (\text{Ød3} + 2i + H2 + 4") + [(\text{Ød1}+2i) - (\text{Ød2}+2i)]^*$
- If $\text{Ød3} + 2i \leq 8"$ $H2 = 4"$,
- If $\text{Ød3} + 2i = 9-14"$, $H2 = 7"$,
- If $\text{Ød3} + 2i = 15-26"$, $H2 = 10"$,
- If $\text{Ød3} + 2i = 27-46"$, $H2 = 13"$, and
- If $\text{Ød3} + 2i = 47-60"$, $H2 = 16"$.

(*) minimum of 4"



Order Example

EHG G-3 **EHG Nongasketed**
 XBRGI - $\text{Ød1}-\text{Ød2}-\text{Ød3}-\text{Ød4}$ XBRI - $\text{Ød1}-\text{Ød2}-\text{Ød3}-\text{Ød4}$

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Tees

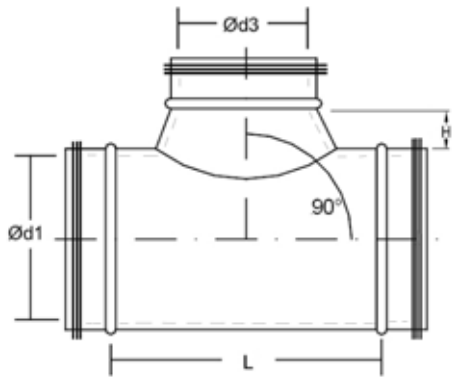
34



Description

conical tee

- $L = \text{Ød3} + 8" + 2i$
- $H = 6"$
- Ød1 must be 2" or larger than Ød3



Order Example

EHG G-3
TCCGI - Ød1 -Ød3

EHG Nongasketed
TCCI - Ød1 -Ød3

TCCGI/TCCRGI

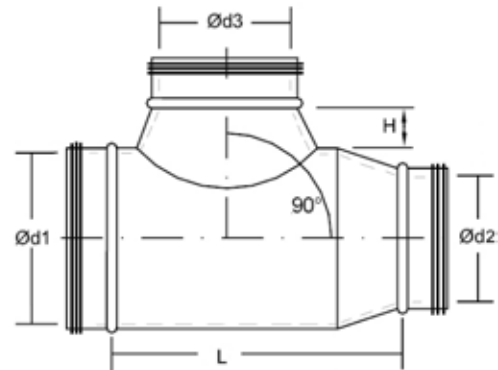


Description

conical reducing tee

- $L = (\text{Ød3} + 8" + 2i) + [(\text{Ød1}+2i) - (\text{Ød2}+2i)]^*$
- $H = 6"$
- Ød1 must be 2" or larger than Ød3

(*) minimum of 4"



Order Example

EHG G-3
TCCRGI - Ød1-Ød2 -Ød3

EHG Nongasketed
TCCRI - Ød1 -Ød2 -Ød3

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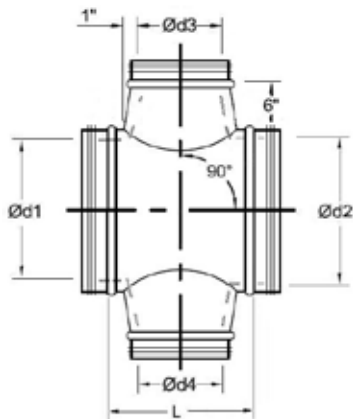
Crossing Tees



Description

conical crossing tee

- $L = \text{Ød3} + 8'' + 2i$
- $H = 6''$
- Ød1 must be 2" or larger than Ød3
- $\text{Ød4} \leq \text{Ød3}$



Order Example

EHG G-3 EHG Nongasketed
 XCCGI - Ød1-Ød3- Ød4 XCCI - Ød1- Ød3- Ød4

XCCGI/XCCRGI

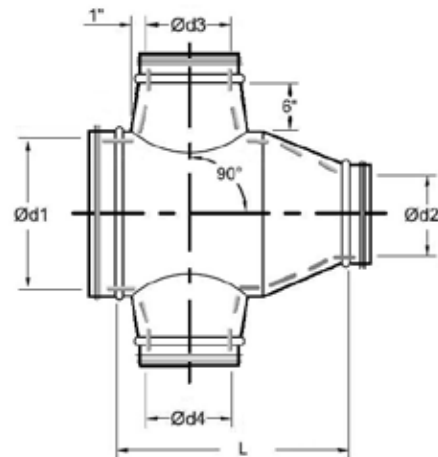


Description

conical reducing crossing tee

- $L = (\text{Ød3} + 8'' + 2i) + [(\text{Ød1}+2i) - (\text{Ød2}+2i)]^*$
- $H = 6''$
- Ød1 must be 2" or larger than Ød3
- $\text{Ød4} \leq \text{Ød3}$

(*) minimum of 4"



Order Example

EHG G-3 EHG Nongasketed
 XCCRGI - Ød1-Ød2- Ød3-Ød4 XCCRI - Ød1- Ød2-Ød3-Ød4

All sizes refer to inside dimensions. EHG G-3 comes with 1" insulation thicknesses standard and 2" as an option. 3" and 4" thicknesses are available in nongasketed only.

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Tees

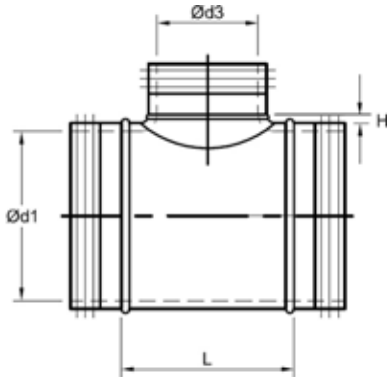
36



Description

assembled straight tee with die-stamped or fabricated PSGI

- $L = \text{Ød3} + 6'' + 2i$
- see page 28 for tap height details



Order Example

EHG G-3
TCPGI - Ød1- Ød3

EHG Nongasketed
TCPI - Ød1- Ød3

TCPGI/TCPRGI

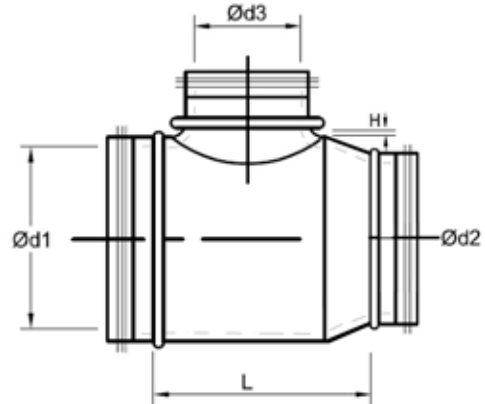


Description

assembled straight reducing tee with die-stamped or fabricated PSGI

- $L = (\text{Ød3} + 6'' + 2i) + [(\text{Ød1} + 2i) - (\text{Ød2} + 2i)]^*$
- see page 28 for tap height details

(*) minimum of 4"



Order Example

EHG G-3
TCPGI - Ød1- Ød2 - Ød3

EHG Nongasketed
TCPRI - Ød1 - Ød2- Ød3

All sizes refer to inside dimensions. EHG G-3 comes with 1" insulation thicknesses standard and 2" as an option. 3" and 4" thicknesses are available in nongasketed only.

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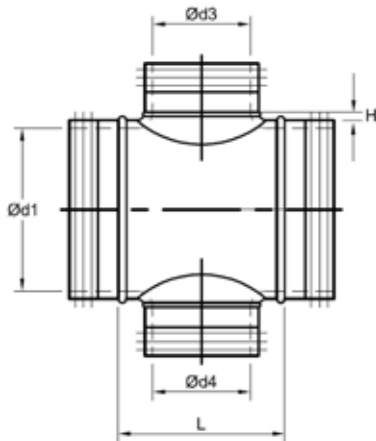
Crossing Tees



Description

assembled crossing tee with die-stamped or fabricated PSGI

- $\text{Ød4} \leq \text{Ød3}$
- $L = [\text{Ød3} + 2i] + 6"$
- see page 28 for tap height details



Order Example

EHG G-3 **EHG Nongasketed**
 XCPGI - Ød1-Ød3- Ød4 XCPI - Ød1- Ød3- Ød4

XCPGI/XCPRGI

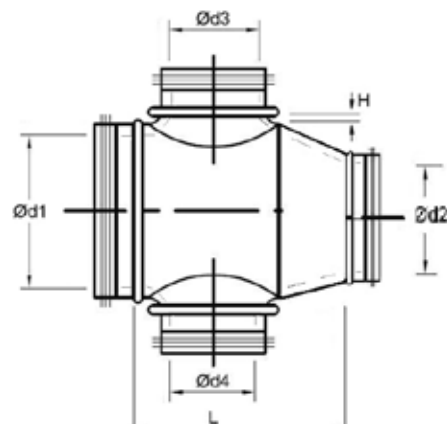


Description

assembled reducing crossing tee with die-stamped or fabricated PSGI

- $\text{Ød4} \leq \text{Ød3}$
- $L = (\text{Ød3} + 6" + 2i) + [(\text{Ød1} + 2i) - (\text{Ød2} + 2i)]^*$
- see page 28 for tap height details

(*) minimum of 4"



Order Example

EHG G-3 **EHG Nongasketed**
 XCPRGI - Ød1-Ød2-Ød3-Ød4 XCPRI - Ød1- Ød2-Ød3-Ød4

All sizes refer to inside dimensions. EHG G-3 comes with 1" insulation thicknesses standard and 2" as an option. 3" and 4" thicknesses are available in nongasketed only.

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Tees

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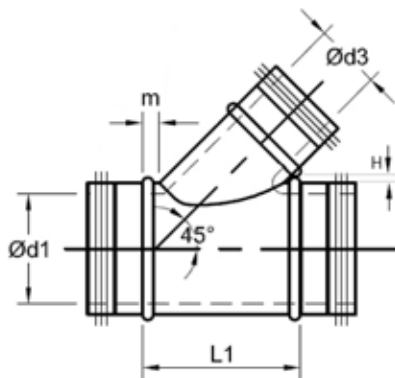


Description

45° lateral tee

- $L1 = [\text{Ø}d3+2i][1/\sin(a)] + 4"$
- $H = 2.5"$ (constant)(throat height)
- special order: 15°- 30°- 60°
i.e. TVU 15° - aa - bb

Note: Use outer shell dimensions to locate tap on the fitting body



Order Example

EHG G-3
TVGI45 - Ød1 -Ød3

EHG Nongasketed
TVI45 - Ød1 -Ød3

TVGI45/TVRGI45



Description

45° lateral reducing tee

- $L = [\text{Ø}d3+2i][1/\sin(a)] + 4" + [(\text{Ø}d1+2i) - (\text{Ø}d2+2i)]^*$
- $H = 2.5"$ (constant)(throat height)

(*) minimum of 4

Order Example

EHG G-3
TVRGI45 Ød1-Ød2-Ød3

EHG Nongasketed
TVRI45 Ød1-Ød2-Ød3

All sizes refer to inside dimensions. EHG G-3 comes with 1" insulation thicknesses standard and 2" as an option. 3" and 4" thicknesses are available in nongasketed only.

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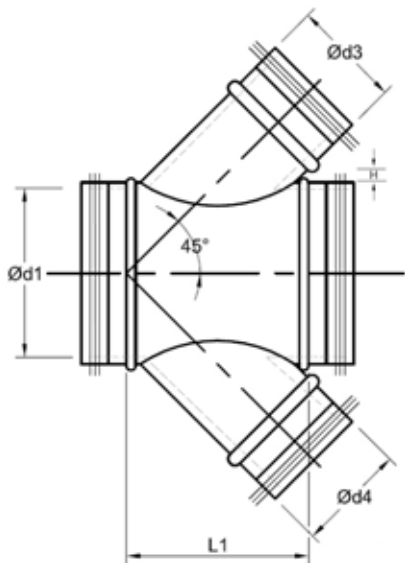
Crossing Tees



Description

45° lateral crossing tee

- following dimension data for $\text{Ød4} = \text{Ød3}$
- $\text{Ød4} \leq \text{Ød3}$
- $L1 = [\text{Ød3} + 2i][1/\sin(a)] + 4"$
- $H = 2.5"$ (constant)(throat height)
- special order: 15°- 30°- 60°
i.e. XVU 15° - aa - bb - cc



Order Example

EHG G-3

XVGI45 - Ød1-Ød3-Ød4

EHG Nongasketed

XVI45 - Ød1-Ød3-Ød4

XVGI45/XVRGI45



39

Description

45° lateral reducing crossing tee

- $L1 = [\text{Ød3} + 2i][1/\sin(a)] + 4" + [(\text{Ød1} + 2i) - (\text{Ød2} + 2i)]^*$
- $H = 2.5"$ (constant)(throat height)
- $\text{Ød4} \leq \text{Ød3}$

(*) minimum of 4"

Order Example

EHG G-3

XVRGI45 Ød1-Ød2-Ød3-Ød4

EHG Nongasketed

XVRI45 Ød1-Ød2-Ød3-Ød4

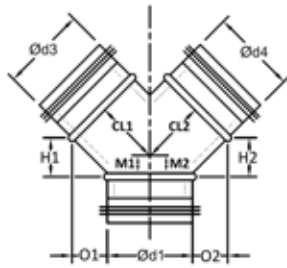
All sizes refer to inside dimensions. EHG G-3 comes with 1" insulation thicknesses standard and 2" as an option. 3" and 4" thicknesses are available in nongasketed only.

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Y-branch/Offset

40



Dimension

$$H1 = \left[\frac{(d3 \times 0.5) + (d1 \times 0.9)}{\tan(45)} \right] \times \cos(45) - \frac{d3 \times 0.5}{\sin(45)}$$

$$O1 = \left[\frac{(d3 \times 0.5) + (d1 \times 0.8)}{\tan(45)} \right] \times \sin(45) - (d1 \times 0.5)$$

$$H2 = \left[\frac{(d4 \times 0.5) + (d1 \times 0.9)}{\tan(45)} \right] \times \cos(45) - \frac{d4 \times 0.5}{\sin(45)}$$

$$O2 = \left[\frac{(d4 \times 0.5) + (d1 \times 0.8)}{\tan(45)} \right] \times \sin(45) - (d1 \times 0.5)$$

$$M1 = H1 + (d3 \times 0.5)(\cos(45)) - (d1 \times 0.5) + O1 - (d3 \times 0.5)(\cos(45))$$

$$M2 = H2 + (d4 \times 0.5)(\cos(45)) - (d1 \times 0.5) + O2 - (d4 \times 0.5)(\cos(45))$$

$$CL1 = \frac{(d1 \times 0.5) + O1 - (d3 \times 0.5)(\cos(45))}{\cos(45)}$$

$$CL2 = \frac{(d1 \times 0.5) + O2 - (d4 \times 0.5)(\cos(45))}{\cos(45)}$$

Note: These dimensions apply for 45° SW. For DW, 'd3+2i'. Call for dimensions on all others.

Order Example

EHG G-3
YVGI45 - Ød1 - Ød3 - Ød4

EHG Nongasketed
YVI45 - Ød1 - Ød3 - Ød4

YVGI45/OSETGI

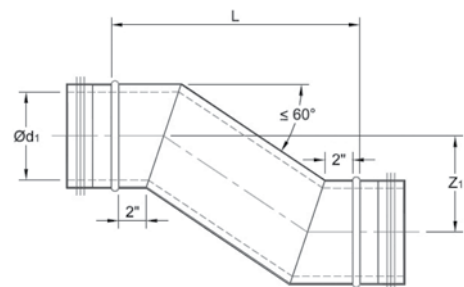


Description

one-piece offset

- 60° max angle of convergence
- max offset Z1 ≤ (Ød1+2i) / 2
- max length L = 60"

Note: SMACNA recommends that offsets be 30° or less



Order Example

EHG G-3
OSETGI - Ød1 - L - Z

EHG Nongasketed
OSETI - Ød1 - L - Z

All sizes refer to inside dimensions. EHG G-3 comes with 1" insulation thicknesses standard and 2" as an option. 3" and 4" thicknesses are available in nongasketed only.

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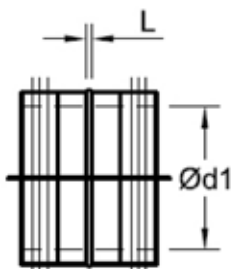
Couplings



Description

coupling used for joining double wall spiral duct

- If $\text{Ø } 3''\text{-}18''$, $L = \frac{3}{8}''$,
If $\text{Ø } 20''\text{-}24''$, $L = \frac{1}{2}''$
If $\text{Ø } 26''\text{-}58''$, $L = \frac{5}{8}''$



Order Example

EHG G-3
NPGI - Ød1

EHG Nongasketed
NPI - Ød1

NPGI/MFI

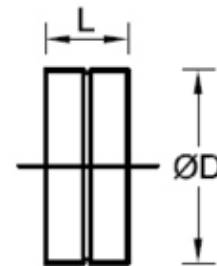


Description

noninsulated outer shell used for joining double wall fittings

- If $\text{Ø } 3''\text{-}7''$, $L = 3\frac{5}{8}''$,
If $\text{Ø } 8''\text{-}12''$, $L = 5\frac{1}{8}''$,
If $\text{Ø } 14''\text{-}18''$, $L = 6\frac{5}{8}''$,
If $\text{Ø } 20''\text{-}24''$, $L = 6\frac{3}{4}''$,
If $\text{Ø } 26''\text{-}42''$, $L = 8\frac{5}{8}''$,
If $\text{Ø } 44''\text{-}58''$, $L = 10\frac{1}{8}''$

Note: MFVI option consists of 2 MF couplings.
One MF for each ID and OD connection.



Order Example

EHG Nongasketed
MFI - ØD

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End Caps

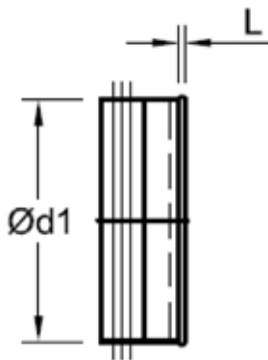
42



Description

end cap for double wall spiral duct

- If $\text{Ø } 3''\text{-}18''$, $L = \frac{3}{8}''$,
- If $\text{Ø } 20''\text{-}24''$, $L = \frac{1}{2}''$
- If $\text{Ø } 26''\text{-}58''$, $L = \frac{5}{8}''$



Order Example

EHG G-3
ESGI - Ød1

EHG Nongasketed
ESI - Ød1

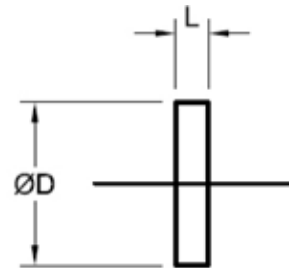
ESGI/EPFI



Description

end cap for fittings

- If $\text{Ø } 5''\text{-}7''$, $L = 1\frac{5}{8}''$,
- If $\text{Ø } 8''\text{-}12''$, $L = 2\frac{3}{8}''$,
- If $\text{Ø } 14''\text{-}24''$, $L = 3\frac{1}{8}''$,
- If $\text{Ø } 26''\text{-}36''$, $L = 4''$,
- If $\text{Ø } 38''\text{-}60''$, $L = 4\frac{3}{4}''$



Order Example

EHG Nongasketed
EPFI - ØD

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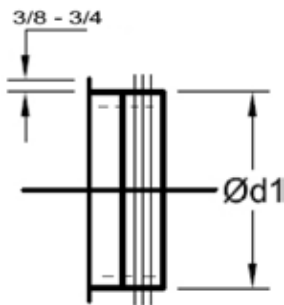
Take-offs



Description

take-off/starting collar

- installed on flat side of duct or plenum
- available in Ø 3"-58" with 1" insulation
 - optional: 2" insulation in Ø 3"-56"



Order Example

EHG G-3
ILGI - Ød1

EHG Nongasketed
ILI - Ød1

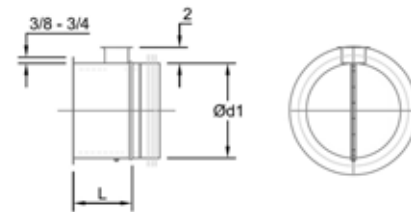
ILGI/DSILGI



Description

gasketed take-off with damper

- lengths (in):
 - diameters 4" - 7" : $L = 5\frac{1}{2}"$
 - diameters 9" - 12" : $L = 5\frac{5}{8}"$
 - diameters 14" - 24" : $L = 6\frac{3}{8}"$
- shaft = 8 mm²
- 2" shaft extension available



Order Example

EHG G-3
DSILGI - Ød1

EHG Nongasketed
DSILI - Ød1

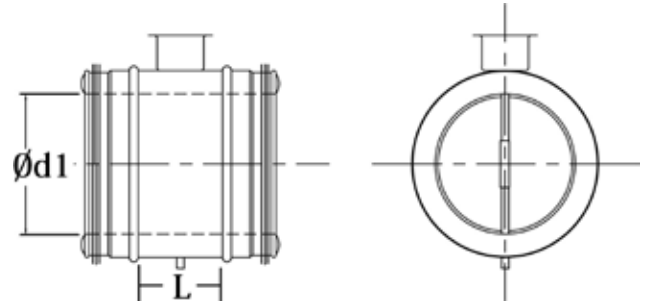
All sizes refer to inside dimensions. EHG G-3 comes with 1" insulation thicknesses standard and 2" as an option. 3" and 4" thicknesses are available in nongasketed only.

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Dampers

DSGI/DSWGI

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Description

balancing damper

- for use in systems where a complete shut-off of air flow is not required
- gasketed shaft-mounted load bearing bushing to minimize air leakage
- integral shaft-blade assembly
- 2" sheet metal insulation stand-off
- locking blade quadrant w/damper position indicator
- full fitting body assembly with bead stop
- damper cup height = 2"

Also available:

DSWGI– DS(G) damper with cable-operating option. Equipped with 20' cable.

Note: Dampers with $\text{Ød1} > 12"$ equipped with extended handle and a reinforced damper blade. Dampers with $\text{Ød1} > 22"$ have 2" bracket in place of cup-shaped stand-off.

Order Example

EHG G-3

DSGI - Ød1

DSWGI - Ød1

EHG Nongasketed

DSI - Ød1

DSWI - Ød1

Dimension

Ød1	L	Shaft
inch	inch	mm ²
4	3.9	8*
5	3.9	8*
6	3.9	8*
7	3.9	8*
8	3.5	8*
9	3.5	8*
10	3.5	8*
12	3.75	8*
14	3.75	8*
16	3.75	8*
18	3.75	8*
20	3.75	8*
22	3.75	8*
24	3.75	8*
26	3.75	8*
28	3.75	8*
30	3.75	8*
32	10.4	25.4**
34	10.4	25.4**
36	10.4	25.4**

* 2" shaft extensions available
** 1" square tube shaft

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Dampers



Description

damper (DSGI) with saddle tap base

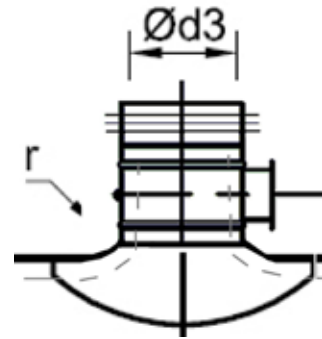
- shaft = 8 x 8 mm²
- 2" shaft extensions available
- L = [PSGI(L) + "e" dimension] + [DSGI(L) + "e" dimension]
- refer to page 11 for "e" dimensions
- refer to page 28 for PSGI construction details (pressed/fabricated)

Order Example

EHG G-3
 DSPSGI - ØD - Ød3

EHG Nongasketed
 DSPSI - ØD - Ød3

DSPSGI



Available in the following sizes (✓):

Available Sizes									
ØD	Ød3								
	3	4	5	6	7	8	10	12	14
4	✓	✓							
5	✓	✓	✓						
6		✓	✓	✓					
7		✓	✓	✓	✓				
8		✓	✓	✓	✓	✓			
10		✓	✓	✓	✓	✓	✓		
12		✓	✓	✓		✓	✓	✓	
14		✓	✓	✓		✓	✓	✓	✓
16		✓	✓	✓		✓	✓	✓	✓
18		✓	✓	✓		✓	✓	✓	✓
20		✓	✓	✓		✓	✓	✓	✓
22		✓	✓	✓		✓	✓	✓	✓

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Dampers

DTGI

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Description

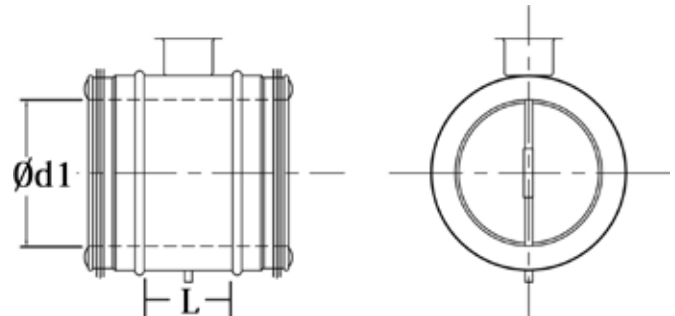
balancing damper with a gasketed blade for complete air-flow shut-off

- gasketed shaft-mounted load bearing bushing to minimize air leakage
- integral shaft-blade assembly
- 2" sheet metal insulation stand-off
- locking blade quadrant w/damper position indicator
- full fitting body assembly with bead stop
- shaft = 8 mm²
- 2" shaft extension available
- damper cup height = 2"
- foam insulation stop (EHG G-3 only)
- Stainless steel construction available in Ø4", Ø6", Ø8", Ø10", and Ø12".
- Not available in aluminum.

Note: dampers with Ød1 > 12" have 2" extended handle and reinforced damper blade

Order Example

EHG G-3
DTU - Ød1



Dimension

Ød1	L	Shaft
inch	inch	mm ²
4	3.9	8
5	3.9	8
6	3.9	8
7	3.9	8
8	3.5	8
9	3.5	8
10	3.5	8
12	3.75	8
14	3.75	8
16	3.75	8
18	3.75	8
20	3.75	8
22	3.75	8
24	3.75	8

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Square-to-Round

RRTGI



Description

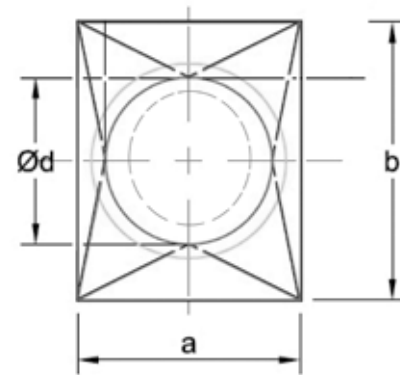
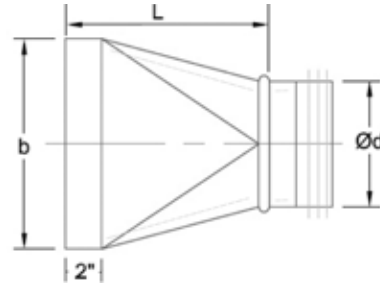
square to round transition

- centered vertically and horizontally
- available in Ø 4" - 60"
- 2" raw edge rectangular end
- L = length, minimum 12"
- a = rectangular width
- b = rectangular height
- special order: offset styles available

Order Example

EHG G-3
RRTGI - a - b - Ød1 - L

EHG Nongasketed
RRTI - a - b - Ød1 - L



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Transitions

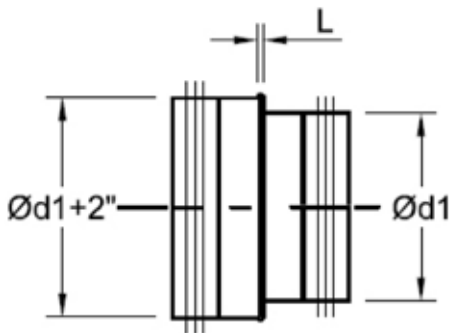
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Description

double wall to single wall transition

- slips into double wall spiral duct
- available $\text{Ø } 3''\text{-}58''$
- $L = \frac{1}{8}''$



Order Example

EHG G-3

RCKG - Ød1 -insulation thickness

EHG Nongasketed

RCK - Ød1 -insulation thickness

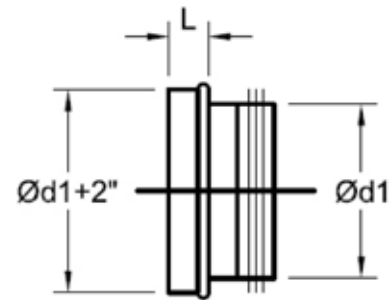
RCKG/RCKFG



Description

double wall to single wall transition

- large end slips over double wall fittings
- available $\text{Ø } 3''\text{-}58''$
- Lengths (L):
 - $\text{Ø } 3''\text{-}7''$, $L = 1\frac{5}{8}''$
 - $\text{Ø } 8''\text{-}12''$, $L = 2\frac{3}{8}''$
 - $\text{Ø } 14''\text{-}24''$, $L = 3\frac{1}{8}''$
 - $\text{Ø } 26''\text{-}36''$, $L = 4''$
 - $\text{Ø } 38''\text{-}58''$, $L = 4\frac{3}{4}''$



Order Example

EHG G-3

RCKFG - Ød1

EHG Nongasketed

RCKF - Ød1

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Field-cut Adapter

FCAGI



Description

adapter for preparing field cut double wall duct for connection to double wall fittings

- available Ø 5"-58"

- Lengths (L):

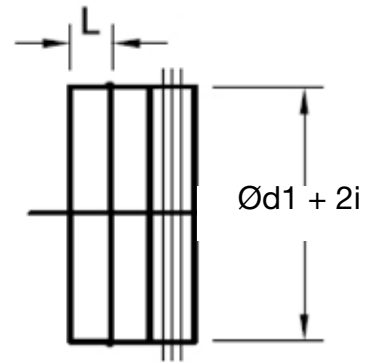
Ø 5"-7", L = $1\frac{5}{8}$ "

Ø 8"-12", L = $2\frac{3}{8}$ "

Ø 14"-24", L = $3\frac{1}{8}$ "

Ø 26"-42", L = 4"

Ø 44"-58", L = $4\frac{3}{4}$ "



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Order Example

EHG G-3
FCAGI - Ød1

EHG Nongasketed
FCAI - Ød1

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