Industrial Catalog

EHG
AIR DISTRIBUTION SOLUTIONS

EHG Industrial

Building without barriers

Well-known for our gasketed system, EHG's world-class quality extends to our Industrial Ductwork Division. It is a natural addition for our skilled trades personnel and fabrication facilities.

The ability to use spiral lockseam pipe construction, when the system requirements allow, results in using lighter gauge and delivers superior strength than long seam welded duct. Also, gore lock construction for fittings result in added strength against collapse due to the built-in stiffening rib.

NFPA Standard 91 is widely used for duct systems conveying particulates and removing flammable vapors (including paint-spraying residue), and corrosive fumes. Duct conveying systems are generally classified from Class 1 - 5.

Classification*

Class 1 covers non-particulate applications, including makeup air, general ventilation, and gaseous emission control.

Class 2 is imposed on moderately abrasive particulate in light concentration, such as that produced by buffing and polishing, woodworking, and grain handling.

Class 3 consists of highly abrasive material in low concentration, such as that produced from abrasive cleaning, dryers and kilns, boiler breeching, and sand handling.

Class 4 is composed of highly abrasive particulates in high concentration, including materials conveying high concentrations of particulates listed under Class 3.

Class 5 covers corrosive applications such as acid fumes.

** Information is excerpted from the 2012 ASHRAE handbook for Industrial Duct Construction.*

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Materials

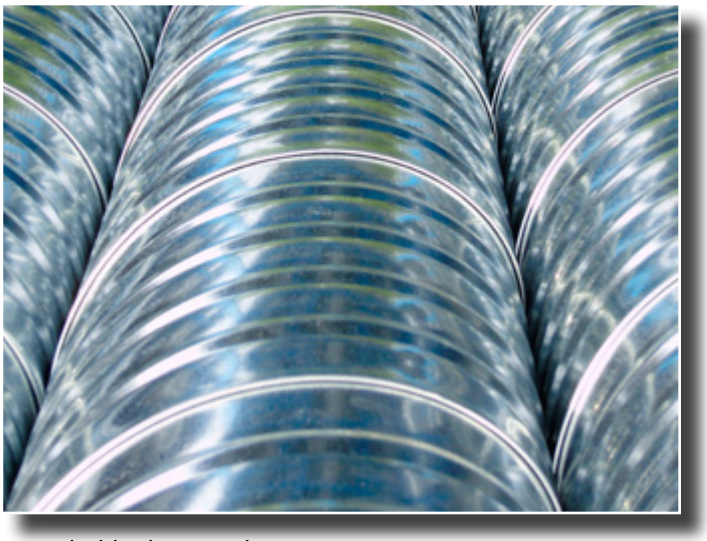
Galvanized steel, uncoated carbon steel, or aluminum are most frequently used for industrial air handling. EHG can also provide 304L and 316L stainless steel in a variety of finishes and aluminized steel for high temperature applications. Aluminum duct should not be used for conveying abrasive materials. When temperatures exceed 400°F (200°C) galvanized steel is not recommended. Please consult EHG for technical assistance in selecting material for handling corrosive gases, vapors, or mists.

Round Ducts

Duct and fittings are available in sizes ranging from 3" diameter to 96" diameter and material thickness from 28 gauge through 10 gauge.

Coordination Drawings

EHG has the in-house capability to generate detailed 3-D drawings to aid in the coordination of the fabrication and installation requirements. In addition, we can assist in manifolding and spooling sections of the ductwork at the factory to minimize field welding or bolted connections.



spiral lockseam duct

longitudinal-seam welded duct

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Capabilities

EHG has the capability of producing spiral lockseam duct in diameters from 3" up to 80". Spiral duct can be provided from metal thicknesses ranging from 28 gauge to 16 gauge (galvanized steel) and 24 gauge to 20 gauge (stainless steel).

Longitudinal-seam welded duct products may be made in diameters as large as 96" and up to 10 gauge thicknesses.

Manifolding and spooling options are also available. Our technicians are trained and accomplished in heavy duty sheet metal applications.

In addition to economical stitch welds, tack and seal joints and continuous resistance welds, EHG has extensive welding and lockforming capabilities in MIG, TIG and special finished welds.

We have a number of transverse connection options besides our EHG G-3® gasketed system, including traditional slip fit, flanged, Van Stone, swedged, LAP and butt joints.

A wide range of materials are offered to satisfy your customer's requirements. Each have a specific purpose in the field:

- galvanized steel
- black iron
- paint-grip galvanized
- powder coat and PVC-coated steel
- antimicrobial coatings
- T3003 aluminum
- 304L and 316L stainless steel
- aluminized steel

Availability

Standard Diameters, Thicknesses and Materials

EHG Industrial products are built to your specifications. Industrial round fittings can be manufacturered as small as 3" diameter and as large as 96" diameter. The same custom materials available for duct are offered in fittings. Fittings can be delivered loose or manifolded.

Below is a quick reference guide to EHG's capabilities. For projects outside of these parameters, please consult EHG for special assistance.

About the charts

1. Cells displaying a stiffener type and size represent a stiffening scheme based on 12 ft spacing between stiffeners or flanges.

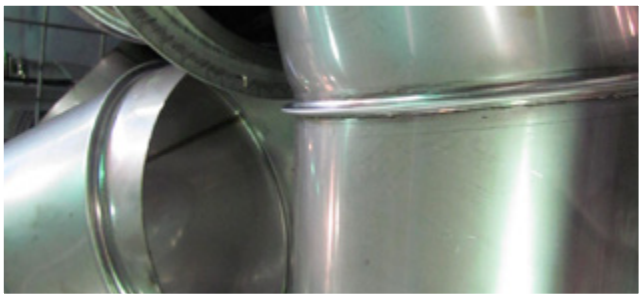
2. The ”plus” symbol (+) represents a stiffening scheme based on a 6 ft spacing between stiffeners.

3. The stiffener size listed is the lightest angle ring that meets the reinforcement requirements for negative pressure.

4. Transverse joint designed for flanges and bolt requirements are in addition to those for negative pressure. Consult EHG for design assistance.

5. The number of welds listed for stiffeners is the total number of stitch welds required around the circumference of the flange. The welds are to be staggered, both toe and heel of the ring, approximately half of the required stitch welds go in front (toe) and the other half in back (heel).

6. Consult EHG for your specific design requirements.



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AIR DISTRIBUTION SOLUTIONS

Class 1 - Stiffener/Weld Schedule
-2 to -30 in. wg

Negative Pressure, in wg	2			6		
Diameter, in.	Gauge	Stiffener Size/Type	No./Size of Welds	Gauge	Stiffener Size/Type	No./Size of Welds
4 thru 14	22	Unstiffened		22	Unstiffened	
16	20	Unstiffened		20	Unstiffened	
18	22	Unstiffened		18	Unstiffened	
20	22	Unstiffened		18	Unstiffened	
22	20	Unstiffened		18	Unstiffened	
24	20	Unstiffened		16	Unstiffened	
30	18	Unstiffened		20	L 1 × 1 × 1/8	10 - 1.0
36	16	Unstiffened		20	L 1 1/4 × 1 1/4 × 3/16	10 - 1.0
42	16	Unstiffened		20	L 1 1/4 × 1 1/4 × 3/16	11 - 1.0
48	22	L 1 × 1 × 1/8	11 - 1.0	20	L 1 1/4 × 1 1/4 × 3/16	11 - 1.0
54	22	L 1 1/4 × 1 1/4 × 3/16	12 - 1.0	20	L 2 × 2 × 1/8	12 - 1.0
60	20	L 1 1/4 × 1 1/4 × 3/16	12 - 1.0	18	L 2 × 2 × 1/8	12 - 1.0
66	20	L 1 1/4 × 1 1/4 × 3/16	13 - 1.0	18	L 2 × 2 × 1/8	13 - 1.0
72	20	L 1 1/4 × 1 1/4 × 3/16	13 - 1.0	18	L 2 × 2 × 1/8	13 - 1.0
78	20	L 2 × 2 × 1/8	13 - 1.0	16	L 2 × 2 × 3/16	13 - 1.0
84	18	L 2 × 2 × 1/8	14 - 1.0	18	L 2 × 2 × 1/4	14 - 1.0
90	18	L 2 × 2 × 1/8	14 - 1.0	16	L 2 × 2 × 1/8	24 - 1.0
96	18	L 2 × 2 × 1/8	14 - 1.0	16	L 2 × 2 × 3/16	24 - 1.0

Negative Pressure, in wg	15			30		
Diameter, in.	Gauge	Stiffener Size/Type	No./Size of Welds	Gauge	Stiffener Size/Type	No./Size of Welds
4 thru 10	22	Unstiffened		22*	Unstiffened	
12	20	Unstiffened		18	Unstiffened	
14 thru 16	18	Unstiffened		16	Unstiffened	
18	16	Unstiffened		18	L 1 × 1 × 1/8	9 - 2.0
20	16	Unstiffened		18	L 1 × 1 × 1/8	11 - 2.0
22	18	L 1 × 1 × 1/8	9 - 1.5	16	L 1 1/4 × 1 1/4 × 3/16	9 - 2.0
24	18	L 1 × 1 × 1/8	9 - 1.5	16	L 1 1/4 × 1 1/4 × 3/16	10 - 2.0
30	18	L 1 1/4 × 1 1/4 × 3/16	10 - 1.5	18+	L 1 1/4 × 1 1/4 × 3/16	15 - 1.0
36	16	L 1 1/4 × 1 1/4 × 3/16	10 - 1.5	16+	L 1 1/4 × 1 1/4 × 3/16	16 - 1.0
42	16	L 2 × 2 × 1/8	11 - 1.5	16+	L 2 × 2 × 1/8	17 - 1.0
48	18+	L 2 × 2 × 1/8	18 - 1.0	16+	L 2 × 2 × 1/8	18 - 1.0
54	16+	L 2 × 2 × 1/8	19 - 1.0	Consult EHG		
60	16+	L 2 × 2 × 1/8	20 - 1.0			
66	16+	L 2 × 2 × 1/8	21 - 1.0			
72	16+	L 2 × 2 × 1/4	22 - 1.0			

* 10" diameter = 20 gauge

\+ Stiffeners @ 6-foot intervals (otherwise 12-foot intervals)

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Spiral-Carbon & Galv

Class 2 - Stiffener/Weld Schedule
-2 to -30 in. wg

Negative Pressure, in wg	2			6		
Diameter, in.	Gauge	Stiffener Size/Type	No./Size of Welds	Gauge	Stiffener Size/Type	No./Size of Welds
4 thru 10	22	Unstiffened		22	Unstiffened	
12	22	Unstiffened		20	Unstiffened	
14	22	Unstiffened		20	Unstiffened	
16	22	Unstiffened		18	Unstiffened	
18	20	Unstiffened		18	Unstiffened	
20	20	Unstiffened		18	Unstiffened	
22	18	Unstiffened		16	Unstiffened	
24	18	Unstiffened		16	Unstiffened	
30	16	Unstiffened		18	L 1 × 1 × 1/8	10 - 1.0
36	16	Unstiffened		18	L 1 1/4 × 1 1/4 × 3/16	10 - 1.0
42	20	L 1 × 1 × 1/8	11 - 1.0	18	L 1 1/4 × 1 1/4 × 3/16	11 - 1.0
48	20	L 1 × 1 × 1/8	11 - 1.0	16	L 1 1/4 × 1 1/4 × 3/16	11 - 1.0
54	20	L 1 1/4 × 1 1/4 × 3/16	12 - 1.0	16	L 2 × 2 × 1/8	12 - 1.0
60	18	L 1 1/4 × 1 1/4 × 3/16	12 - 1.0	16	L 2 × 2 × 1/8	12 - 1.0
66	18	L 1 1/4 × 1 1/4 × 3/16	13 - 1.0	16	L 2 × 2 × 1/8	13 - 1.0
72	18	L 1 1/4 × 1 1/4 × 3/16	13 - 1.0	16	L 2 × 2 × 1/8	13 - 1.0
78	18	L 2 × 2 × 1/8	13 - 1.0	16+	L 2 × 2 × 3/16	22 - 1.0
84	18	L 2 × 2 × 1/8	14 - 1.0	16+	L 2 × 2 × 1/4	23 - 1.0
90	18	L 2 × 2 × 1/8	14 - 1.0	16+	L 2 × 2 × 1/8	24 - 1.0
96	18	L 2 × 2 × 1/8	14 - 1.0	16+	L 2 × 2 × 3/16	24 - 1.0

Negative Pressure, in wg	15			30		
Diameter, in.	Gauge	Stiffener Size/Type	No./Size of Welds	Gauge	Stiffener Size/Type	No./Size of Welds
4 thru 8	22	Unstiffened		22*	Unstiffened	
10	20	Unstiffened		18	Unstiffened	
12 thru 14	18	Unstiffened		16	Unstiffened	
16	16	Unstiffened		16	L 1 × 1 × 1/8	8 - 2.0
18	16	Unstiffened		16	L 1 × 1 × 1/8	8 - 2.0
20	16	L 1 × 1 × 1/8	9 - 1.0	16	L 1 × 1 × 1/8	9 - 2.0
22	16	L 1 × 1 × 1/8	9 - 1.0	16	L 1 1/4 × 1 1/4 × 3/16	9 - 2.0
24	16	L 1 × 1 × 1/8	9 - 1.5	16	L 1 1/4 × 1 1/4 × 3/16	10 - 2.0
30	16	L 1 1/4 × 1 1/4 × 3/16	10 - 1.5	16+	L 1 1/4 × 1 1/4 × 3/16	15 - 1.0
36	16	L 1 1/4 × 1 1/4 × 3/16	10 - 1.5	16+	L 1 1/4 × 1 1/4 × 3/16	16 - 1.0
42	16+	L 2 × 2 × 1/8	17 - 1.0	Consult EHG		
48	16+	L 2 × 2 × 1/8	18 - 1.0			
54	16+	L 2 × 2 × 1/8	19 - 1.0			
60	16+	L 2 × 2 × 1/8	20 - 1.0			

* 8" Diameter is 20 Gauge

\+ Stiffeners @ 6-foot intervals (otherwise 12-foot intervals)

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Class 5 - Stiffener/Weld Schedule
-2 to -30 in. wg

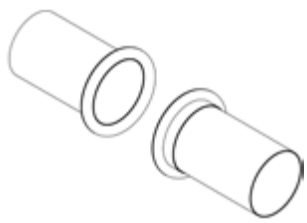
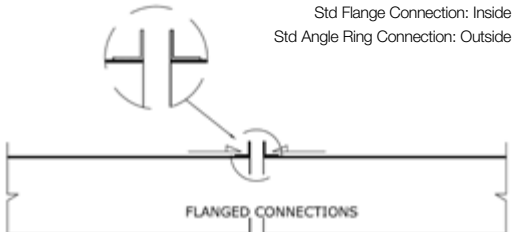
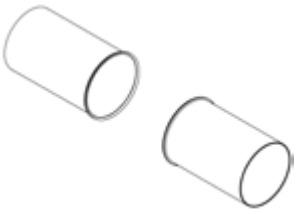
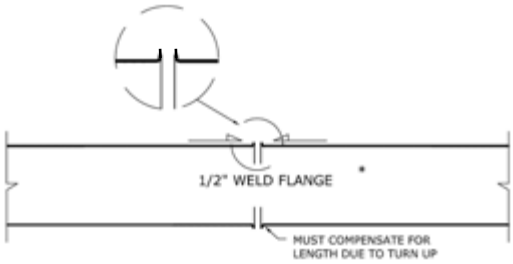
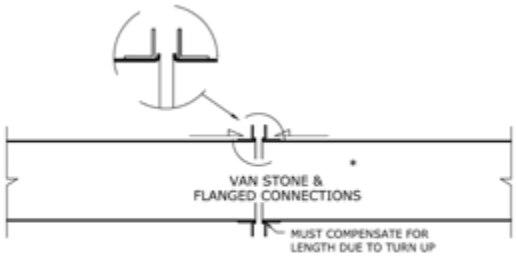
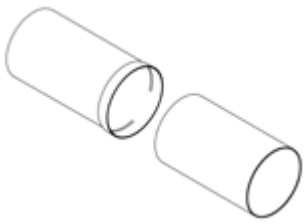
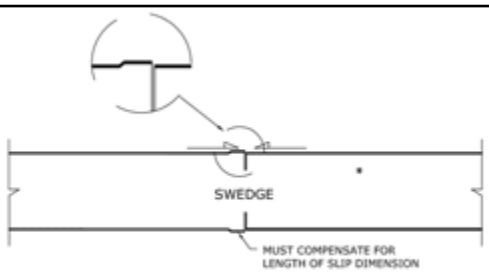
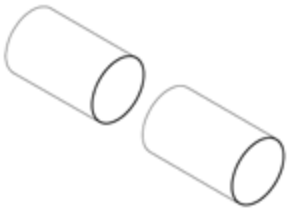
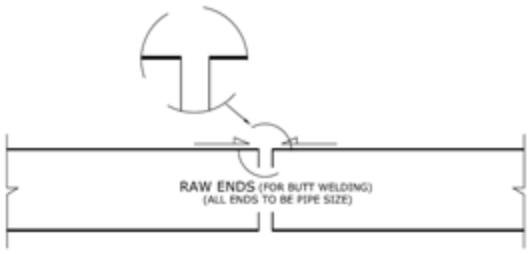
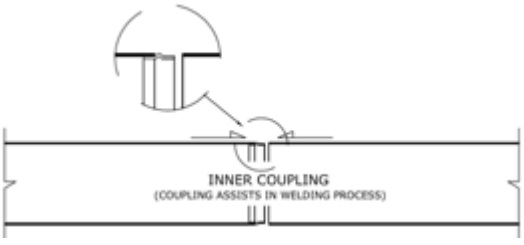
Negative Pressure, in wg	2			6		
Diameter, in.	Gauge	Stiffener Size/Type	No./Size of Welds	Gauge	Stiffener Size/Type	No./Size of Welds
4 thru 14	22	Unstiffened		22	Unstiffened	
16	22	Unstiffened		20	Unstiffened	
18	22	Unstiffened		18	Unstiffened	
20	22	Unstiffened		18	Unstiffened	
22	20	Unstiffened		18	Unstiffened	
24	20	Unstiffened		16	Unstiffened	
30	18	Unstiffened		20	L 1 × 1 × 1/8	10 - 1.0
36	16	Unstiffened		20	L 1 1/4 × 1 1/4 × 3/16	10 - 1.0
42	16	Unstiffened		18	L 1 1/4 × 1 1/4 × 3/16	11 - 1.0
48	22	L 1 × 1 × 1/8	11 - 1.0	18	L 1 1/4 × 1 1/4 × 3/16	11 - 1.0
54	22	L 1 1/4 × 1 1/4 × 3/16	12 - 1.0	18	L 2 × 2 × 1/8	12 - 1.0
60	20	L 1 1/4 × 1 1/4 × 3/16	12 - 1.0	18	L 2 × 2 × 1/8	12 - 1.0
66	20	L 1 1/4 × 1 1/4 × 3/16	13 - 1.0	16	L 2 × 2 × 1/8	13 - 1.0
72	20	L 1 1/4 × 1 1/4 × 3/16	13 - 1.0	16	L 2 × 2 × 1/8	13 - 1.0
78	20	L 2 × 2 × 1/8	13 - 1.0	16	L 2 × 2 × 3/16	13 - 1.0
84	18	L 2 × 2 × 1/8	14 - 1.0	16	L 2 × 2 × 1/4	14 - 1.0
90	18	L 2 × 2 × 1/8	14 - 1.0	18+	L 2 × 2 × 1/8	24 - 1.0
96	18	L 2 × 2 × 1/8	14 - 1.0	16+	L 2 × 2 × 3/16	24 - 1.0

Negative Pressure, in wg	15			30		
Diameter, in.	Gauge	Stiffener Size/Type	No./Size of Welds	Gauge	Stiffener Size/Type	No./Size of Welds
4 thru 10	22	Unstiffened		22*	Unstiffened	
12	20	Unstiffened		18	Unstiffened	
14 thru 16	18	Unstiffened		16	Unstiffened	
18	16	Unstiffened		18	L 1 × 1 × 1/8	8 - 2.0
20	16	Unstiffened		18	L 1 × 1 × 1/8	9 - 2.0
22	18	L 1 × 1 × 1/8	9 - 1.5	16	L 1 × 1 × 1/8	9 - 1.5
24	18	L 1 × 1 × 1/8	9 - 1.5	16	L 1 1/4 × 1 1/4 × 3/16	9 - 1.5
30	18	L 1 1/4 × 1 1/4 × 3/16	10 - 1.5	18+	L 1 1/4 × 1 1/4 × 3/16	15 - 1.0
36	16	L 1 1/4 × 1 1/4 × 3/16	10 - 1.5	16+	L 1 1/4 × 1 1/4 × 3/16	16 - 1.0
42	16	L 2 × 2 × 1/8	11 - 1.5	16+	L 2 × 2 × 1/8	17 - 1.0
48	18+	L 2 × 2 × 1/8	18 - 1.0	16+	L 2 × 2 × 1/8	18 - 1.0
54	16+	L 2 × 2 × 1/8	19 - 1.0	Consult EHG		
60	16+	L 2 × 2 × 1/8	20 - 1.0			
66	16+	L 2 × 2 × 1/8	21 - 1.0			
72	16+	L 2 × 2 × 1/4	22 - 1.0			

* 10" Diameter is 20 Gauge

\+ Stiffeners @ 6-foot intervals (otherwise 12-foot intervals)

End Treatments

TC1 *		Std Flange Connection: Inside of duct Std Angle Ring Connection: Outside of duct 
TC2 **		
TC3 ***		
TC4 **		
TC5		
TC6		

* Add 3" per flange plus flange thickness for each end on fittings;

** Not used in spiral duct;

*** When used with spiral duct a vanstone flange coupling is factory installed.

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Flanges & Angle Rings

EHG has partnered with angle ring and flange manufacturer's across the country to bring you reliable connections for your heavy-duty applications.

Standard Pressed

- Black Iron
- Galvanized (hot dipped)
- Aluminum
- Stainless Steel

Standard Rolled

- Galvanized
- Stainless Steel
- Aluminum
- With or Without holes
- Leg-in or Leg-out
- Precise measurements to ensure an easy and tight fit

Bolt Hole Options

- "K" Pattern (standard)
- "H" Pattern
- Special patterns available upon request

EHG Transfer

Ductwork for dust and other fine particulate collection. Transfer components are joined easily with a gasketed tension clamp. It's disassembled just as easily! Cleaning and inspection is simple with EHG Transfer. In fact, these parts can be relocated and reused if necessary.

The duct system is suitable for:

- Particle transportation from woodworking, such as saw mills, carpenters, furniture manufacturers and craft work shops
- Comfort ventilation
- Extraction systems for better working environment
- Plasma cutters
- Specially designed ventilation plants where you have extra demands for form, color and appearance.

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Specifications

Material shall be one of the following:

A. Galvanized steel conforming to ASTM standards A653 and A924
B. Stainless steel type 304L conforming to ASTM standard A240*
C. Stainless steel type 316L conforming to ASTM standard A240*

(*) Indicates die-stamped (pressed) fitting construction not available

Surface finish shall be one of the following:

A. G-60 galvanized steel (standard)
B. G-90 galvanized steel
C. Stainless steel type 304L 2B finish
D. Stainless steel type 316L 2B finish

Material thickness shall be one of the following:

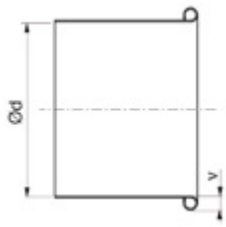
A. 22 gauge except pressed elbows shall be 24 gauge
B. Other gauges and/or external reinforcement (consult the factory)

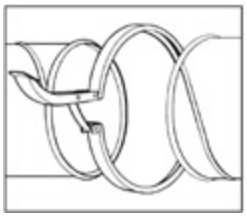
Connections/Joint Sealing

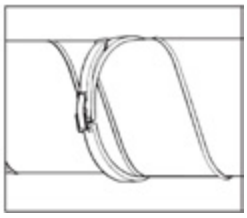
A. All duct and fitting ends shall be joined externally by means of an integral latching/locking barrel clamp with factory-installed custom form fitting EPDM sealing gasket to ensure no duct penetrations or protrusions into the airstream
B. Temperature rating for EPDM gasket shall be -22°F to +167°F intermittent
C. The clip handle shall be secured against inadvertent opening by means of lock pin (supplied by others)
D. No additional field sealant shall be necessary

Dimensions of duct and fittings

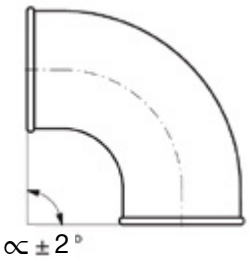
Ød nom	Ød	v
in	in	in
3	3.1	0.24
4	3.9	0.24
5	4.8	0.24
6	5.8	0.24
7	7.0	0.31
8	7.8	0.31
9	8.8	0.31
10	9.8	0.31
12	11.8	0.40
14	13.8	0.40
16	15.8	0.40
18	17.7	0.40
20	19.7	0.40







Angle tolerance



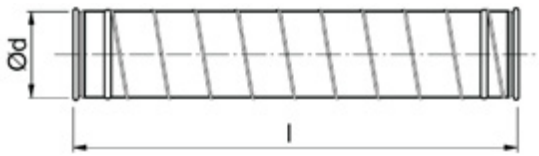
Transfer

Description

Round spiral with Transfer connection on each end.

Available in diameters 3" - 20"

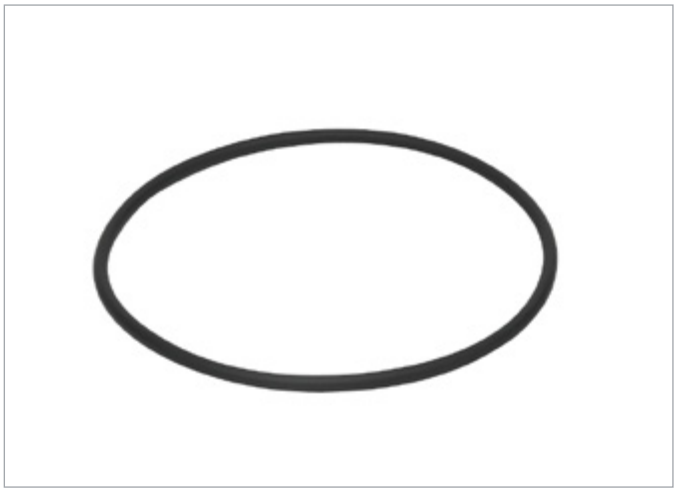
Available in lengths 12" - 120"



Order Example

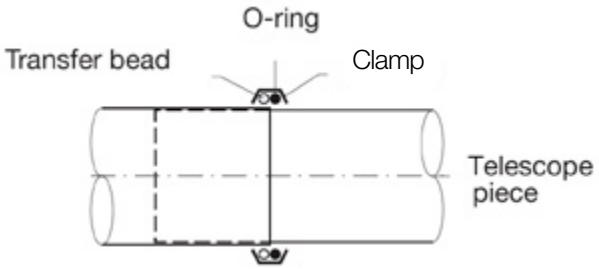
	SRTR	8
Product		
Dimension Ød		

SRTR/ORINGTR



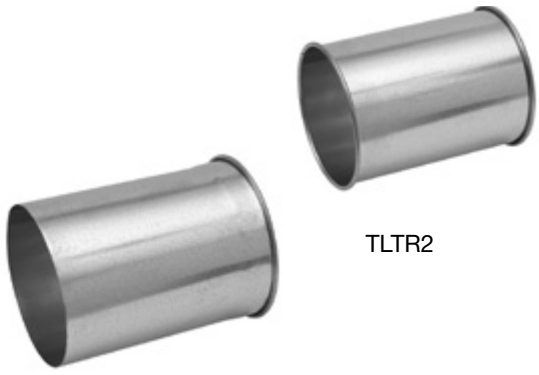
Description

Oring used in sealing option for TLTR components



Order Example

	ORINGTR	8
Product		
Dimension Ød		



TLTR2

TLTR1

assembled

Description

Used together with the telescopic duct TLTR2 to adjust duct length. Airflow direction travels from TLTR1 towards TLTR2. The maximum extension will be marked on exterior of each TLTR1. Seal joint after assembly by using

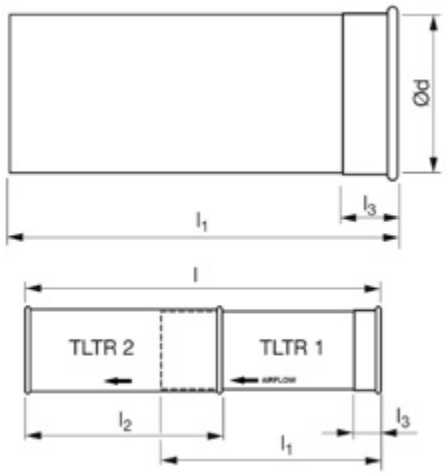
1) mastic tape, or
2) clamp (SB/SB-1) + ORINGTR (sold separately)

Order Example

TLTR1 8

Product

Dimension Ød



Description

Used together with the telescopic duct TLTR1 to adjust duct length. Can also be used as ordingary duct.

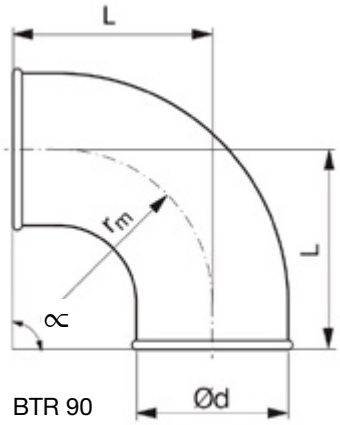
Order Example

TLTR2 8

Product

Dimension Ød

Ød nom	t	l_1, l_2	l_3	l_{min}	l_{max}
in	in	in	in	in	in
3	0.28	9	2.25	11.25	22
4	0.28	9	2.0	11	21.5
5	0.28	9	2.0	11	21.5
6	0.28	9	2.0	11	21.5
7	0.28	9	2.0	11	21.5
8	0.28	14	2.0	16	31.5
9	0.28	14	2.0	16	31.5
10	0.28	14	2.0	16	31.5
12	0.28	14	2.0	16	31.5
14	0.28	14	2.0	16	31.5
16	0.35	14	2.0	16	31.5
18	0.35	14	2.0	16	31.5
20	0.35	14	2.0	16	31.5



BTR 90

Description

Pressed and seam welded elbow with a Transfer connection on each end.

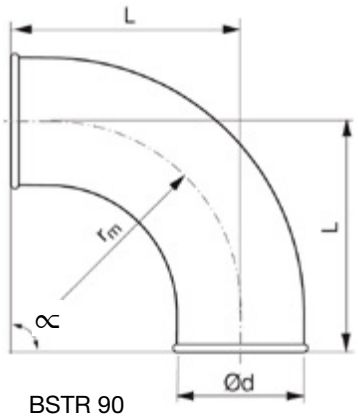
Available angles: 90°, 60°, 45°, 30°
Available diameters: 3" - 12"

r_m = 1.0 x Ød

Order Example

BTR 90 8

Product
Angle of bend
Dimension Ød



BSTR 90

Description

Pressed and seam welded elbow with a Transfer connection on each end.

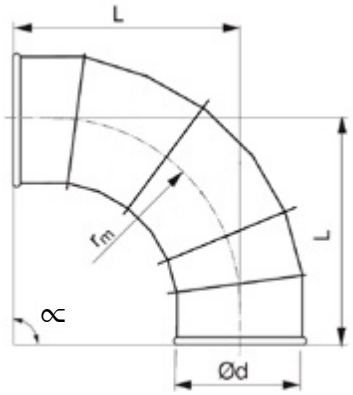
Available angles: 90°, 60°, 45°, 30°
Available diameters: 4" - 12"

r_m = 1.5 x Ød

Order Example

BSTR 90 8

Product
Angle of bend
Dimension Ød



Description

Segmented elbow with a Transfer connection on each end.

Available diameters: 14" - 20"

$r_m \approx 1.5 \times Ød$

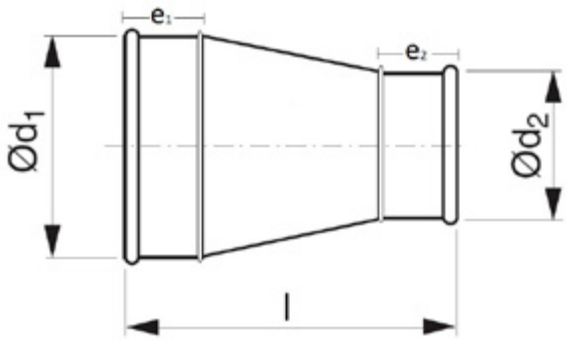
Order Example

BSFTR 90 16

Product

Angle of bend

Dimension Ød



Description

Long, fabricated concentric reducer with a Transfer connection on each end.

$L = Ød_1 - Ød_2 + e_1 + e_2$

$L \geq 4”$

Ød nom	e_1	e_2
in	in	in
3	2.25	2.25
4	2.0	2.0
5	2.0	2.0
6	2.0	2.0
7	2.0	2.0
8	2.0	2.0
9	2.0	2.0
10	2.0	2.0
12	2.0	2.0
14	2.0	2.0
16	2.0	2.0
18	2.0	2.0
20	2.0	2.0

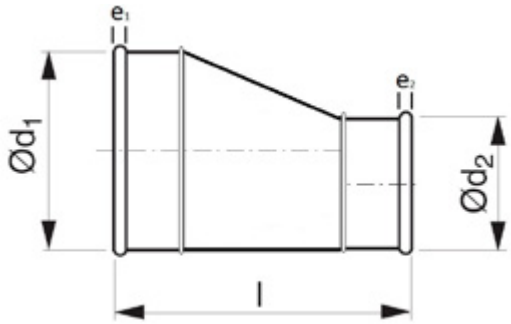
Order Example

RCLTR 8 6

Product

Dimension $Ød_1$

Dimension $Ød_2$



Description

Long, fabricated eccentric reducer with a Transfer connection on each end.

$L = Ød_1 - Ød_2 + e_1 + e_2$

$L \geq 4"$

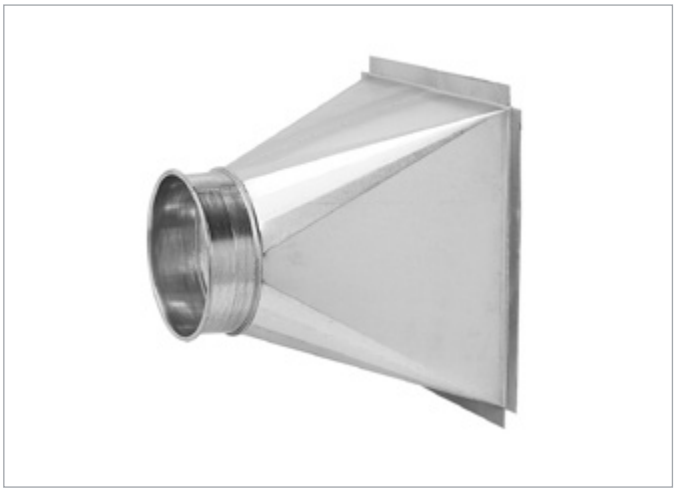
Order Example

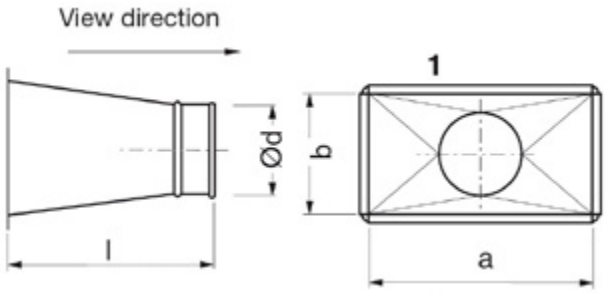
RLTR 8 6

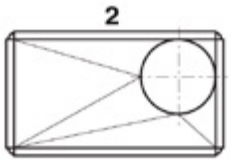
Product

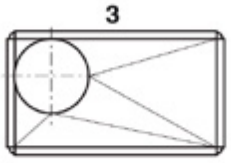
Dimension $Ød_1$

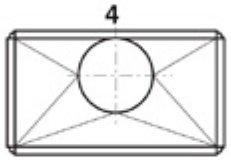
Dimension $Ød_2$

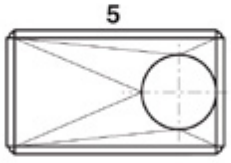


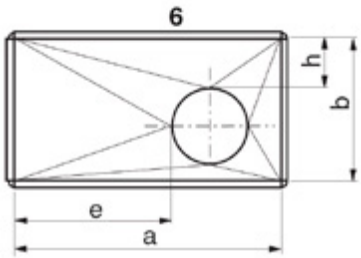












Description

Transistion from round EHG Transfer to rectangular connection.

The measures e and h only need to be specified for alternative 6. A negative value for e, for example, means that e is outside dimension a.

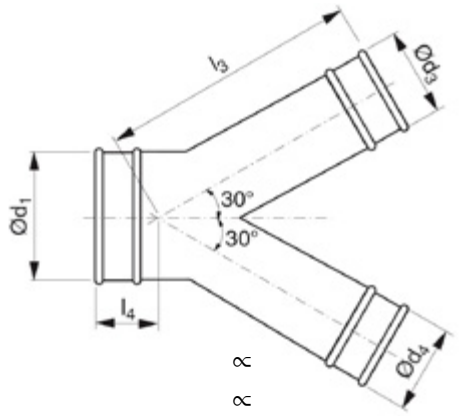
Available in Ød diameters 3" - 20"

L ≥ 14"

Order Example

RRTTR 18 x 12 8 14

Product
Dimension a x b
Dimension Ød
Length



Description

30° Y-piece

The adjacent table only contains a limited selection of 30° laterals where all dimensions d_1, d_3 and d_4 are equal in size. Other dimensions are available upon request.

Dimensions

$Ød_1$ nom	$Ød_3$ nom $Ød_4$ nom	l_3	l_4
in	in	in	in
3	3	5.25	2.25
4	4	6.0	2.0
5	5	7.0	2.0
6	6	8.0	2.0
7	7	9.0	2.0
8	8	10.0	2.0
9	9	11.0	2.0
10	10	12.0	2.0
12	12	14.0	2.0
14	14	16.0	2.0
16	16	18.0	2.0
18	18	20.0	2.0
20	20	22.0	2.0

Order Example

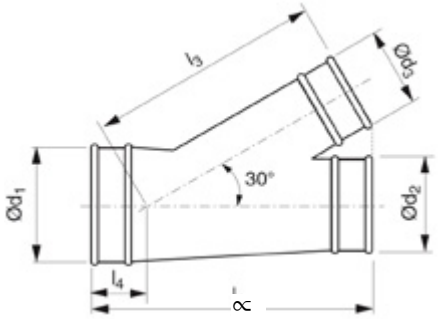
YVTR 8 8 6

Product

Dimension $Ød_1$

Dimension $Ød_3$

Dimension $Ød_4$



Description

30° lateral tee.

The adjacent table only contains a limited selection of 30° laterals. Other dimensions are available upon request.

In all combinations, the installation length l_1 is only governed by the branch diameter d_3. For example, all Tee-pieces with d_3= 8" have installation length l_1 = 24".

Note: Tap d_3 must be ≤ d_2 in diameter.

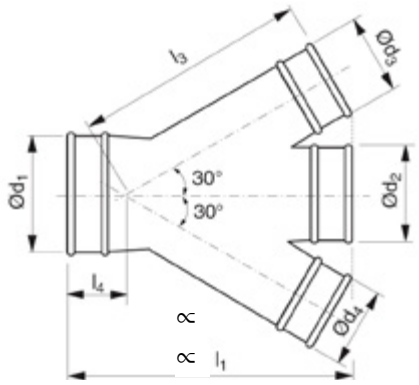
Dimensions

$Ød_1$ nom	$Ød_2$ nom	$Ød_3$ nom	l_1	l_3	l_4
in	in	in	in	in	in
6	4	3	14	12.3	4.7
8	6	4	16	15.0	3.9
10	8	6	20	18.7	4.2
12	10	8	24	22.4	4.5
14	12	10	28	26.2	4.7
16	14	12	32	29.9	5.0
18	16	14	36	33.6	5.3
20	18	16	40	37.4	5.5

Order Example

TVTR 8 8 6

- Product
- Dimension $Ød_1$
- Dimension $Ød_2$
- Dimension $Ød_2$



Description

30° crossing lateral tee.

The adjacent table only contains a limited selection of 30° laterals. Other dimensions are available upon request.

In all combinations, the installation length l_1 is only governed by the larger branch diameter d_3/d_4. For example, all cross-pieces with d_3 = 6" and d_4 = 8" have installation length l_1 = 24".

Note: Tap d_3 must be ≤ d_2 in diameter.
Tap d_4 must be ≤ d_3.

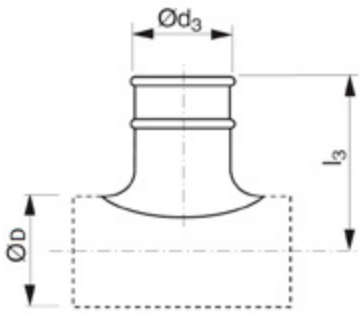
Dimensions

Ød$_1$ nom	Ød$_2$ nom	Ød$_3$ nom Ød$_4$ nom	l_1	l_3	l_4
in	in	in	in	in	in
6	4	3	14	12.3	4.7
8	6	4	16	15.0	3.9
10	8	6	20	18.7	4.2
12	10	8	24	22.4	4.8
14	12	10	28	26.2	4.7
16	14	12	32	29.9	5.0
18	16	14	36	33.6	5.3
20	18	16	40	37.4	5.5

Order Example

XVTR 10 10 8 6

- Product
- Dimension Ød$_1$
- Dimension Ød$_2$
- Dimension Ød$_3$
- Dimension Ød$_4$



Description

Saddle tap.
The saddle is fixed with two sealing clamps MFK (page 23).
Most sizes Ød$_3$ 3"-16" are pressed. Fabricated options indicated in chart below.

Fabricated Sizes								
Ød$_3$	ØD							
	8	9	10	12	14	16	18	20
3	•	•	•	•	•	•	•	•
7					•	•	•	•
14					•	•	•	•
18							•	•
20								•

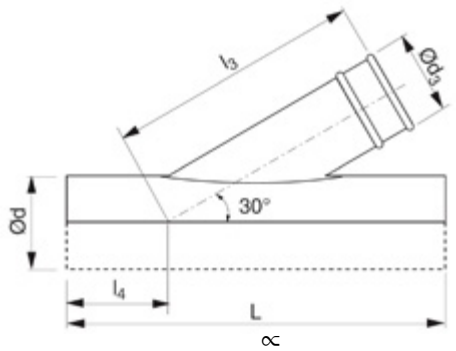
Order Example

PSTR 8 6
Product
Dimension ØD
Dimension Ød$_3$

Dimensions

H = X + 0.5(ØD)
X-dimensions in the chart below:

"X" Dimensions		
Ød$_3$ nom	Pressed "X"	Fabricated "X"
in	in	in
3	4.25	3.3
4	4.4	n/a
5	4.4	n/a
6	4.6	n/a
7	4.6	3.0
8	4.6	n/a
9	4.6	n/a
10	5.4	n/a
12	5.5	n/a
14	n/a	3.0
16	5.9	n/a
18	n/a	3.0
20	n/a	3.0



Description

30° Lateral saddle tap.

The saddle is fixed with two sealing clamps MFK (page 28). This product should not be installed with screws or blind rivets when used in chip extraction installations.

The adjacent table only contains a limited selection of 30° lateral saddle taps where all dimensions d and d_3 are equal in size. Other dimensions are available upon request.

Dimensions

ØD	Ød$_3$ nom	L	l$_3$	l$_4$
in	in	in	in	in
4	3	10	11.3	3.5
6	4	12	14	2.8
7	5	14	15.8	2.9
8	6	16	17.7	3.1
9	7	18	19.6	3.2
10	8	20	21.4	3.3
12	10	24	25.2	3.6
14	12	28	28.9	3.9
16	14	32	32.6	4.1
18	16	36	36.4	4.4
20	18	40	40.1	4.7

Order Example

PSVTR 8 6

Product

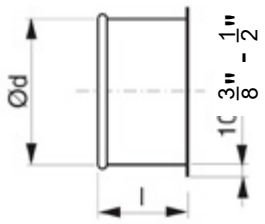
Dimension ØD

Dimension Ød$_3$

Description

Take-off

Available in diameters 3" - 20"



Ød$_3$ nom	L
in	in
3	2.1
4	1.8
5	1.8
6	1.8
7	1.8
8	1.8
9	1.9
10	1.9
12	1.8
14	1.8
16	1.8
18	1.7
20	1.7

Order Example

ILTR 8

Product

Dimension Ød$_1$

Description

Bellmouth take-off

Available in diameters 4" - 16"

Ød$_3$ nom	L
in	in
4	4.0
5	4.0
6	4.7
7	4.7
8	4.7
9	4.8
10	5.6
12	5.4
14	5.4
16	5.9

Order Example

ILRTR 8

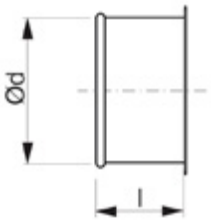
Product

Dimension Ød$_1$

Description

End cover

Available in diameters 3" - 20"



$Ød_1$ nom	L
in	in
3	2.1
4	1.9
5	1.9
6	1.9
7	1.9
8	1.9
9	1.9
10	1.8
12	1.8
14	1.8
16	1.8
18	1.8
20	1.8

Order Example

EPTR 8

Product

Dimension Ød

Description

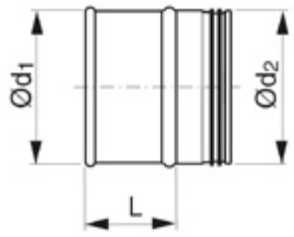
Coupling between Transfer and G-3 systems.

Available in diameters 3" - 20"

Lengths

3" diameter = 2.25"

4" - 20" diameter = 2"



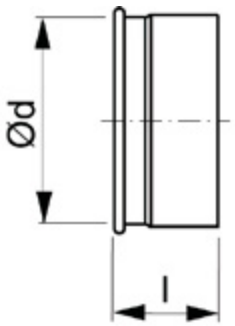
Order Example

OUTR 8 6

Product

Dimension $Ød_1$

Dimension $Ød_2$



Description

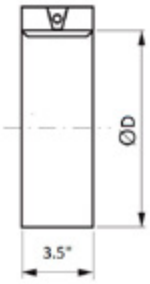
Coupling with female end between Transfer and G-3 systems.

Available in diameters 3" - 20"

$Ød_1$ nom	L
in	in
3	3.7
4	3.6
5	3.6
6	3.6
7	3.6
8	3.6
9	3.6
10	4.5
12	4.5
14	4.5
16	5.0
18	5.0
20	5.0

Order Example

	MFTR	8
Product		
Dimension ØD		



Description

The inside of the sealing clamp is clad with EPDM rubber gasket.

Used for attaching slide-on stub saddle PSTR and PSVTR (page 24-25).

Available in diameters 3” - 20”

Order Example

MFK	8
Product	
Dimension ØD	

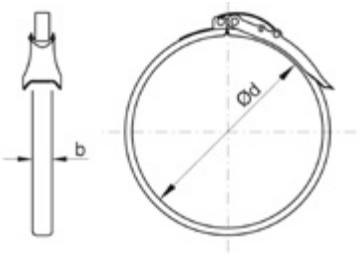
Description

The heavy-duty barrel clamp used for connecting EHG Transfer is provided with a rubber gasket. The solid clamp handles can be secured against inadvertent opening by means of a lock pin (supplied by others).

Temperature range -22 to +167 °F continuous
-40 to +185 °F intermittent

Available in diameters 3" - 20"

Ø Dia	b
3" - 6"	½"
7" - 10"	¾"
12" - 20"	1"



Order Example

SB 8
Product
Dimension Ød

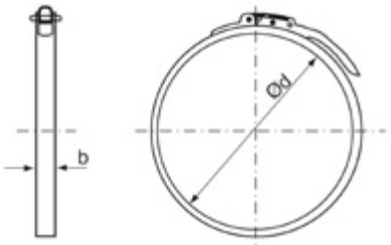
Description

The standard barrel clamp used for connecting EHG Transfer is provided EPDM rubber gasket and a thread spring. The clip split handle can be secured against inadvertent opening by means of a lock pin (supplied by others).

Temperature range -22 to +167 °F continuous
-40 to +185 °F intermittent

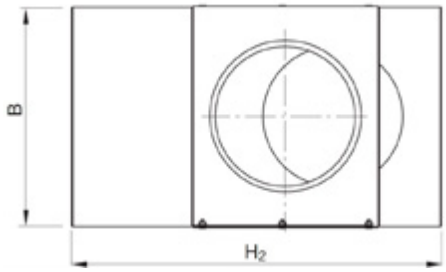
Available in diameters 3" - 20"

Ø Dia	b
3" - 6"	½"
7" - 10"	¾"
12" - 20"	1"



Order Example

SB1 8
Product
Dimension Ød



Description

Full blast gate used to shut off air flow in a EHG Transfer system. Constructed with a Transfer connection on each end.

Gauge:

- 22 (standard for 3"-9")
- 20 (standard for 10"-16")
- 18

Connections:

- **BGATETR** Transfer (standard)
- **BGATEG EHG G-3**
- **BGATE** Nongasketed

Diameters: 3" - 16"

Ød	B	I	H_1	H_2
3	6	4.4	5	8.25
4	7	3.8	6	10.25
5	8	3.8	7	12.25
6	9	3.8	8	14.25
7	10	3.8	9	16.25
8	11	3.8	10	18.25
9	13.75	3.8	11	20.25
10	14.75	3.6	12	22.25
12	16.75	3.6	14	26.25
14	18.75	3.6	16	30.25
16	20.75	3.6	18	34.25

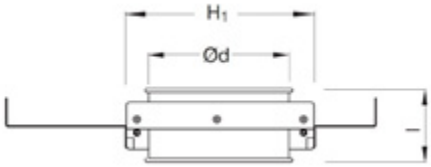
All dimensions in inches.

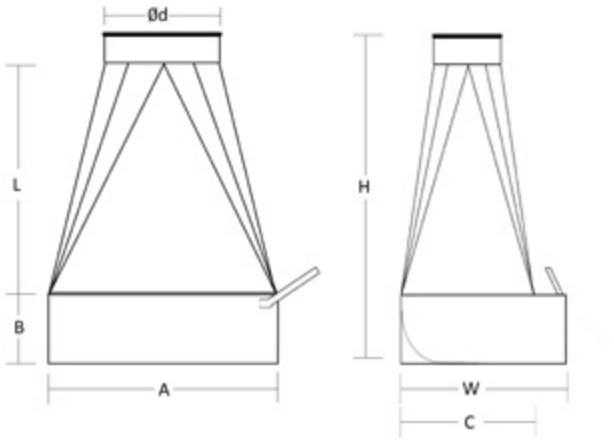
Order Example

BGATETR 8

Product

Dimension Ød





Description

The floorsweep is used in a EHG Transfer particulate collection system. Constructed with a sweeping vane over interior corner for improved velocity.

Gauge:

- 24

Connections:

- **FSTR** Transfer (standard)
- **FSG EHG G-3**
- **FS** Nongasketed

Diameters: 4" - 8"

Ød	A	B	C	L	H	W
4	12	4	4	12	18	6
5	12	4	4	12	18	6
6	12	4	4	12	18	6
8	12	4	4	12	18	6

All dimensions in inches.

Order Example

FSTR 8

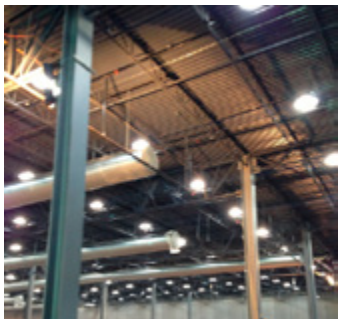
Product

Dimension Ød





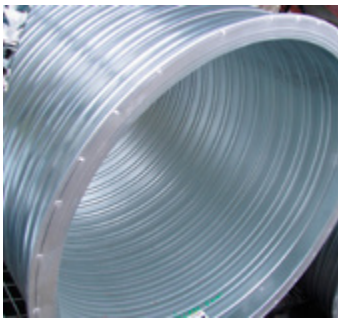










EHG in brief...

EHG is an international company which develops, manufactures, and markets sheet metal products and system solutions for air distribution. With over 50 years in history, EHG has continued to prove its place in the HVAC industry.

EHG is a yellow label union manufacturer and a proud partner of the Sheet Metal Worker's International Association (SMWIA). EHG, Inc. is headquartered in Portsmouth, Virginia.

EHG
AIR DISTRIBUTION SOLUTIONS

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