



## DWKL

Double-wall conical stainless steel exhaust system

[www.jeremiasinc.com](http://www.jeremiasinc.com)



# JEREMIAS CONTENTS



## DW - Double-wall chimneys

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# JEREMIAS EXHAUST SYSTEMS

Jeremias Models DWKL and SWKL are factory built stainless steel venting systems for various types of appliances. The Model DWKL is Double Wall and Model SWKL is Single Wall. The KL is derived from the original spelling of Konical, for the Conical Joint. Each may be intermixed in the same vent system assuming proper clearances and other installation guidelines are maintained for each system.

All DWKL Models and variations are intended for use in exhausting various appliances to the outdoors. There are also many other applications and uses including, but not limited to the following: boiler stacks, engine exhausts, turbines, commercial kitchen exhausts, grease ducts, pizza ovens, coffee roasters, chimney liners, fireplace chimneys, laundry dryer vents, fume venting, industrial oven and process stacks, incinerator exhausts, paint booth exhausts, particle conveying, chutes, and ventilation ducts.

A photograph showing a complex network of industrial stainless steel exhaust pipes and ducts. The pipes are arranged in a grid-like pattern, with some vertical stacks and horizontal runs. The background shows a clear sky and more industrial structures, suggesting a factory or processing plant setting.

**STRONG – OPEN – INTERNATIONAL**

## 40 Years of Experience

Jeremias is one of the world's leading manufacturers of flue and chimney systems for the exhaust of gases and ventilation, covering all kinds of domestic, commercial and industrial applications. Jeremias Group product range includes over fifty (50) different CE or UL certified systems covering commercial and domestic applications complimented by freestanding Industrial steel chimneys up to 10 feet in diameter. Jeremias offers its clients a wide range of high quality products, technical support for projects, and stack sizing software.

With over 40 years of experience in the venting and component exhaust industries, Jeremias has seven (7) manufacturing plants in six (6) different countries worldwide. Jeremias today has more than 1,000 employees and is proud of its German engineering origins, and fortunately is now also manufactured in the USA from 100 % local materials!

Here in North America, Jeremias Inc. focuses primarily on high pressure exhaust systems for commercial and industrial applications.

## Research and Development

Jeremias has over fifty (50) CE Certified exhaust and chimney systems worldwide for domestic, commercial, and industrial applications. "CE Certification" is the mandatory conformity safety testing for products sold throughout Europe and other parts of the world. In North America, Jeremias employs only Underwriters' Laboratories (UL) for testing, certifications, and listings to all applicable UL and ULC Standards.

# JEREMIAS EXHAUST SYSTEMS

Opened in 2013, the Jeremias R&D Lab in Logan, OH has the industry's most experienced lab technicians on staff and incorporates the latest equipment and technologies. This laboratory enables Jeremias to provide industry leadership with a continued focus on new factory-built exhaust applications and unique listings. Jeremias is constantly bringing new innovations to the marketplace and our Logan laboratory enables us to accomplish these changes quickly and effectively.

## All Stainless Steel Construction

The standard 444 stainless steel (EN 1.4521) inner wall is the new standard for high temperatures and also corrosion resistant to flue gas condensation. 444 stainless steel provides a better higher temperature solution over austenitic 304 or 316 stainless steels due to lower expansion coefficient value, meaning no cracking from less expanding oxides. 444 stainless steel has very good resistance to pitting corrosion in chloride media, much better than 304 (EN 1.4301) and 316 (EN 1.4401) stainless steels, and even better than 316L (EN 1.4404) stainless steel. 444 stainless steel also has a higher minimum proof strength than 304 stainless steel in combination with lower work hardening behavior. The outer jacket is always made of stainless steel. Type 304 stainless steel with a bright annealed finish is standard. All accessories (including support plates and angle rings) are also made of stainless steel. This means there is no cross contamination in the factory from carbon steel cutting/welding. Jeremias cleans all external welds to assure the customer clearly sees the quality standard we are setting. Jeremias backs our exhaust systems with an industry's first Twenty-Five (25) Year Standard Warranty.



## Largest Joint Connection Surface Area

Model DWKL is a cylindrical, factory-built, modular venting system that incorporates a steel to steel conical joint and clamp system for quick and easy assembly in the field. A Jeremias supplied high temperature ceramic lubricating and assembly paste

is applied on the conical joint to assure the best steel to steel connection; and it is then tapped into place creating a gas-tight and liquid-tight seal. The conical joints have a 2.2" steel to steel surface-area at each connection allowing greater stiffness, sealing, and durability compared to 1/2" flange to flange systems. For example, 6" I.D. DWKL has a 41.45 square inch overlap at each joint where a 1/2" flanged system has only a 9.42 square inch overlap. UL Testing resulted in the industry's first 90" W.C. pressure capability after continuous 1400°F flue gas temperatures.



The double wall Model DWKL is insulated with 1/4" thick compressed fiber insulation which allows the inner and outer pipes to stay aligned, without the use of additional clips or brackets. On other designs, clips or brackets act as a thermal bridge from the inner wall to outer jacket. With no additional thermal bridge at the joint there are no hot spots at pipe and fitting connections.



# TECHNICAL SPECIFICATIONS

## Model and Part Identifications

**DWKL**, Double Wall, universal, for all applications (5"Ø-36"Ø) Available in many thicknesses of insulation

**DWKL-Lt**, Double Wall Light, universal, for all applications (3"Ø-18"Ø)

**DWKL-Rx**, Double Wall, Roxul, for 1200°F Max applications (5"Ø-36"Ø) Available in many thicknesses of insulation

**DWKL-Vt**, Double Wall Vent, Roxul Insulation, for 1200°F Max applications (3"Ø-18"Ø)

### Example 1:

DWKL8-36L for an 8 inch diameter Model DWKL double wall, 36 inches in length

### Example 2:

DWKL12-90BT-Vt for a 12 inch diameter Model DWKL-Vt double wall 90 degree Boot Tee

## Material Options and Thicknesses

### DWKL

#### Inner Liner:

> 0.035" thick Type 444 stainless steel ; 5"Ø through 36"Ø (under 5"Ø use -Lt)

#### Outer Jacket:

> 0.025" thick Type 304 stainless steel ; 5"Ø through 24"Ø

> 0.035" thick Type 304 stainless steel ; 26"Ø through 36"Ø

#### Insulation:

SuperWool- 1.5" blanket 8 PCF Fiber compressed to 1.25" thick (9.6 PCF net effective)

### DWKL- Lt

#### Inner Liner:

> 0.020" thick Type 444 stainless steel ; 3"Ø through 18"Ø (over 18"Ø use regular DWKL)

#### Outer Jacket:

> 0.025" thick Type 304 stainless steel ; 3"Ø through 18"Ø

#### Insulation:

SuperWool- 1.5" blanket 8 PCF Fiber compressed to 1.25" thick (9.6 PCF net effective)

### DWKL- Rx

#### Inner Liner:

> 0.035" thick Type 444 stainless steel ; 5"Ø through 36"Ø (under 5"Ø use -Vt)

#### Outer Jacket:

> 0.025" thick Type 304 stainless steel ; 5"Ø through 24"Ø

> 0.035" thick Type 304 stainless steel ; 26"Ø through 36"Ø

#### Insulation:

Roxul- 1.25" thick cut 8 PCF Mineral Wool

### DWKL- Vt

#### Inner Liner:

> 0.020" thick Type 444 stainless steel ; 3"Ø through 18"Ø (over 18"Ø use -Rx)

#### Outer Jacket:

> 0.025" thick Type 304 stainless steel ; 3"Ø through 18"Ø

#### Insulation:

Roxul- 1.25" thick cut 8 PCF Mineral Wool

# TECHNICAL SPECIFICATIONS

## Underwriters Laboratories Listings

UL File Number for All Listings: MH59917

**United States:**

**DWKL & DWKL-Lt Double Wall with compressed fiber**

1. UL-103 Standard, Building Heating Appliance Chimney
2. UL-103 Standard, Additional Type HT Listing
3. UL-2561 Standard, 1400F Chimney Listing
4. UL-103 & UL-2561 Standards, Additional Positive Pressure Listing to 90" WC after 1400°F
5. UL-1978 Standard, Grease Duct
6. UL-1738 Standard, Venting Systems for Gas-Burning Appliances, Categories II, III and IV
7. UL-441 Standard, Gas Vents
8. UL-641 Standard, Type L Low-Temperature Vent

**DWKL-Vt & DWKL - RX Gas Vents with cut mineral wool insulation**

1. UL-103 Standard, Building Heating Appliance Chimney
2. UL-103 Standard, Additional Positive Pressure Listing to 90" WC after 1400°F
3. UL-1738 Standard, Venting Systems for Gas-Burning Appliances, Categories II, III and IV
4. UL-441 Standard, Gas Vents
5. UL-641 Standard, Type L Low-Temperature Vent

UL & ULC Listings Matrix:

CRITERIA	DWKL / DWKL-Lt	DWKL-Vt / DWKL-Rx
UL-103 Building Heating Appliance Chimney ULC/ORD-C959 Industrial Type 540°C Chimney	X	X
Additional UL-103 Type HT	X	
UL-2561 1400°F Chimney ULC/ORD-C959 Industrial Type 760°C Chimney	X	
UL-1978 Grease Duct ULC-S662 Grease Duct	X	
UL-1738 Special Gas Vent ULC-S636 Gas Vent	X	X
Optional 400°F UL-1738 Special Gas Vent	X	X
Optional Plastic (PVC, CPVC, PP) Special Gas Vent	X	X
UL-441 Gas Vents ULC-S605 Gas Vents	X	X
UL-641 Type L Vent ULC-S609 Vents Type L	X	X

Notes: 1. UL only, not ULC 2. UL (gas/oil), ULC (all fuels)

## Operating Pressures

All Jeremias Inc. models have been evaluated and Listed by UL for positive pressures up to 90" W.C. internal static pressure with exposure up to 1400°F internal continuous temperatures.

# TECHNICAL SPECIFICATIONS

## Code and Standards

When installed per their instructions, all Jeremias Inc. models are code compliant with the following codes and standards:

- > NFPA 31
- > NFPA 37
- > NFPA 54
- > NFPA 96
- > NFPA 211
- > UMC
- > CMC
- > CSA-B139
- > CSA-B149
- > IMC
- > IFGC
- > ULC-S650

The following agencies or associations produce codes, standards, or guidelines by which all Jeremias Inc. Models may be installed and used:

- > ASHRAE (American Society of Heating, Refrigerating and Air Conditioning Engineers)
- > CSA (Canadian Standards Association)
- > IAPMO (International Association of Plumbing and Mechanical Officials)
- > ICC (International Code Congress)
- > NFPA (National Fire Protection Association)
- > UL (Underwriters Laboratories, Inc.)
- > ULC (Underwriters' Laboratories of Canada)

## Operating Temperatures

CRITERIA	PERMITTED TEMPERATURES
UL-103 Building Heating Appliance Chimney ULC/ORD-C959 Industrial Type 540°C Chimney	1000°F (540°C) Continuous 1400°F (760°C) Intermittent
Additional UL-103 Type HT	2100°F (1150°C) for 10 Minutes
UL-2561 1400°F Chimney ULC/ORD-C959 Industrial Type 760°C Chimney	1400°F (760°F) Continuous 1800°F (980°C) Intermittent
UL-1978 Grease Duct	500°F (260°C) Continuous 2000°F (1093°C) for 30 Minutes
UL-1738 Special Gas Vent ULC-S636 Gas Vent	550°F (288°C) Continuous
Optional 400°F UL-1738 Special Gas Vent	400°F (204°C) Continuous
Optional Plastic (PVC, CPVC, PP) Special Gas Vent	148°F (64°C) Continuous for PVC 194°F (90°C) Continuous for CPVC 248°F (120°C) Continuous for PP
UL-441 Gas Vents ULC-S605 Gas Vents	480°F (249°C) Continuous
UL-641 Type L Vent ULC-S609 Vents Type L	570°F (300°C) Continuous

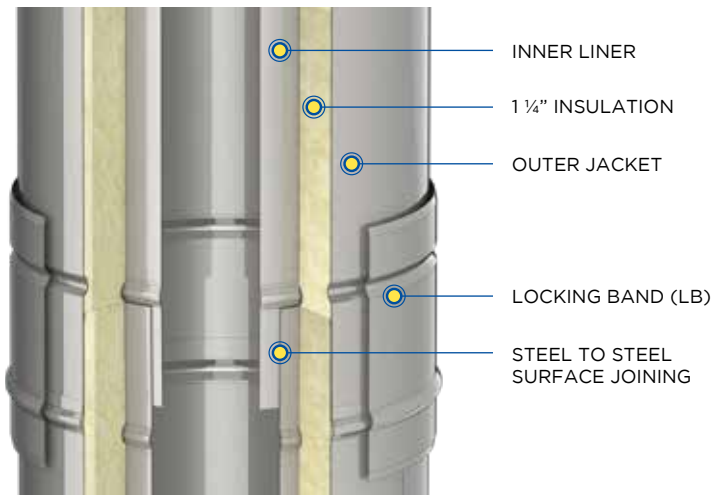
## Joint Detail

All Jeremias Inc. models are cylindrical, factory-built, modular venting systems that incorporate a steel to steel conical joint and clamp system for quick and easy assembly in the field.

A Jeremias supplied high temperature ceramic lubricating and assembly paste is applied on the inner wall conical joint to assure the best steel to steel connection.

The double wall models are insulated with 1½” thick fiber (compressed to 1¼”) or 1¼” cut mineral wool which allows the inner and outer pipes to stay aligned.

Models DWKL/DWKL-Lt/DWKL-Vt Joint Assembly Detail



Further features of the Jeremias double wall insulated systems include:

- a) Reduced clearance to combustibles
- b) Reduced outer pipe skin temperatures
- c) Reduced building heat gain
- d) Increased efficiencies of energy recovery systems
- e) Reduced noise levels caused by high velocity exhausts
- f) Enhanced chimney draft

## Sizing/Pressure Calculations

Jeremias’ engineering uses its own software based upon the “Chimney, Gas Vent, and Fireplace Systems” chapter of the ASHRAE Handbook to assure that the exhaust and chimney system is sized in accordance with the appliance manufacturers’ installation instructions.

# TECHNICAL SPECIFICATIONS

## Pipe Weight per Foot

The approximate installed weight of the DWKL exhaust system can be found using this table. This table does not include accessories such as supports and guides, nor shipping packaging or palletizing weight (LBS per foot).

## KL Paste

KL Paste is a ceramic lubricating and assembly paste. The purpose is to help guide the pipe connections to assure the best steel to steel connection. It also seals the joint by allowing the ceramic to fill any microscopic steel imperfections. On fittings it will help the installer rotate to the correct position **before** tapping in place.

Use 1 teaspoon of paste per 24" length of joint perimeter. Example: 10 inch diameter has 31" of perimeter length, so use about 1.3 teaspoons per each 10 inch joint connection. Below table allows for a 20% waste (About 1/2" wide smear).

Table 1-1, No. (#) of Joints per 3.5 oz. Tube

Ø	3"	4"	5"	6"	7"	8"	9"	10"	11"	12"	13"	
#	42.6	32.0	25.6	21.3	18.2	16.0	14.2	12.8	11.6	10.6	9.8	
	14"	16"	18"	20"	22"	24"	26"	28"	30"	32"	34"	36"
	9.1	8.0	7.1	6.4	5.8	5.3	4.9	4.5	4.2	4.0	3.7	3.5


INSIDE DIAMETER	DWKL, DWKL-Rx	DWKL-Vt, DWKL-Lt
3" (76 mm)	DNA	3.0 (4.4)
4" (102 mm)	DNA	3.8 (5.7)
5" (127 mm)	5.3 (7.9)	4.4 (6.5)
6" (152 mm)	6.3 (9.3)	5.4 (8.0)
7" (178 mm)	7.2 (10.7)	6.1 (9.1)
8" (203 mm)	8.1 (12.1)	6.8 (10.1)
9" (229 mm)	9.1 (13.5)	7.6 (11.3)
10" (254 mm)	10.0 (14.9)	8.4 (12.5)
11" (279 mm)	10.9 (16.3)	9.1 (13.5)
12" (305 mm)	11.9 (17.7)	10.0 (14.9)
13" (330 mm)	12.8 (19.1)	10.7 (15.9)
14" (356 mm)	13.8 (20.5)	11.6 (17.3)
16" (406 mm)	15.6 (23.2)	13 (19.3)
18" (457 mm)	17.5 (26.0)	14.6 (21.7)
20" (508 mm)	19.4 (28.8)	16.2 (24.1)
22" (559 mm)	21.3 (31.6)	17.8 (26.5)
24" (610 mm)	23.1 (34.3)	19.2 (28.6)
26" (660 mm)	23.7 (35.3)	DNA
28" (711 mm)	25.5 (37.9)	DNA
30" (762 mm)	27.2 (40.5)	DNA
32" (812 mm)	29.0 (43.2)	DNA
34" (863 mm)	30.7 (45.7)	DNA
36" (914 mm)	32.5 (48.4)	DNA

## Submittal and Warranted Designs

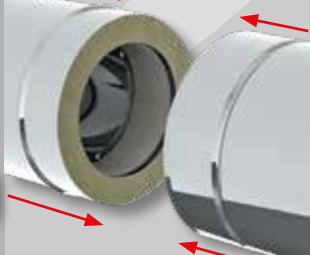
Jeremias also provides CAD layout designs that show all required accessories, including drains, supports, access panels, etc., to be in accordance with any specific appliance manufacturers' installation instructions.

QUICK & EASY INSTALLATION

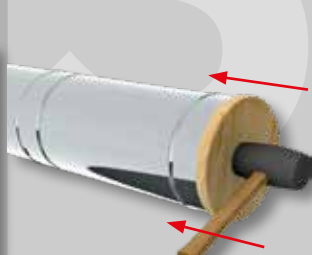
**C**lean the inner side of the female end and the outer side of the male end of each pipe. Apply the KL Paste to the female end.




**U**se your hands to center both pipes in alignment. Connect both pipes and press them together as much as possible by hand.



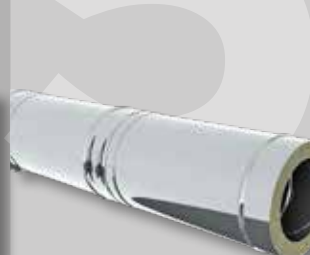
**U**se the wood plate (supplied with shipment) and place it on the end of the assembly. Tap 2-3 times. Make sure to press both inner and outer pipes together; the inner should not be more than 1/8" longer than the outer pipe once the male/female conical ends are engaged.



**I**nstall and fix the Locking Band (LB). To ensure the connection is secure, the Locking Band must be perfectly fitted in both grooves.



**F**inish



NO SILICONE GASKET OR SEALANT USED (ONLY KL PASTE LUBRICANT)

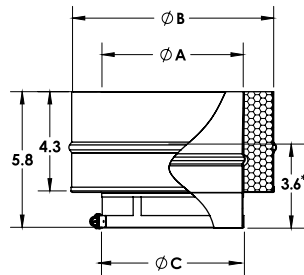


# ADAPTERS

## Raw Collar Adapter - Inside - Start / DWKLØ-RCIS

Ø	ØA	ØB	ØC
3	3	5.5	
4	4	6.5	
5	5	7.5	
6	6	8.5	
7	7	9.5	
8	8	10.5	
9	9	11.5	
10	10	12.5	
11	11	13.5	
12	12	14.5	
13	13	15.5	
14	14	16.5	
16	16	18.5	
18	18	20.5	
20	20	22.5	
22	22	24.5	
24	24	26.5	
26	26	28.5	
28	28	30.5	
30	30	32.5	
32	32	34.5	
34	34	36.5	
36	36	38.5	

Ø A-0.315

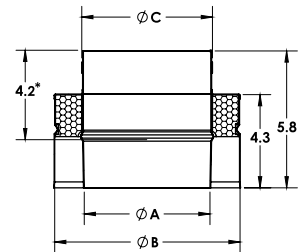


\* Installed length

## Raw Collar Adapter - Inside - End / DWKLØ-RCIE

Ø	ØA	ØB	ØC
3	3	5.5	
4	4	6.5	
5	5	7.5	
6	6	8.5	
7	7	9.5	
8	8	10.5	
9	9	11.5	
10	10	12.5	
11	11	13.5	
12	12	14.5	
13	13	15.5	
14	14	16.5	
16	16	18.5	
18	18	20.5	
20	20	22.5	
22	22	24.5	
24	24	26.5	
26	26	28.5	
28	28	30.5	
30	30	32.5	
32	32	34.5	
34	34	36.5	
36	36	38.5	

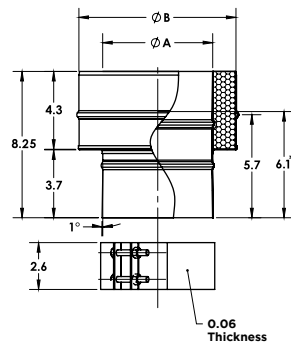
Ø A-0.315



\* Installed length

## Raw Collar Adapter - Outside - Start / DWKLØ-RCOS

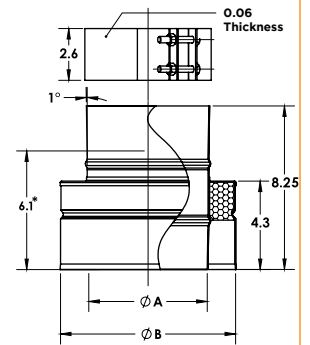
Ø	ØA	ØB
3	3	5.5
4	4	6.5
5	5	7.5
6	6	8.5
7	7	9.5
8	8	10.5
9	9	11.5
10	10	12.5
11	11	13.5
12	12	14.5
13	13	15.5
14	14	16.5
16	16	18.5
18	18	20.5
20	20	22.5
22	22	24.5
24	24	26.5
26	26	28.5
28	28	30.5
30	30	32.5
32	32	34.5
34	34	36.5
36	36	38.5



\* Installed length

## Raw Collar Adapter - Outside - End / DWKLØ-RCOE

Ø	ØA	ØB
3	3	5.5
4	4	6.5
5	5	7.5
6	6	8.5
7	7	9.5
8	8	10.5
9	9	11.5
10	10	12.5
11	11	13.5
12	12	14.5
13	13	15.5
14	14	16.5
16	16	18.5
18	18	20.5
20	20	22.5
22	22	24.5
24	24	26.5
26	26	28.5
28	28	30.5
30	30	32.5
32	32	34.5
34	34	36.5
36	36	38.5

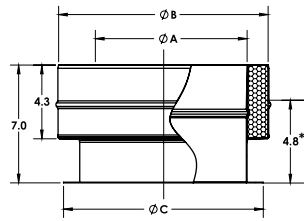


\* Installed length

# ADAPTERS

## Flange Collar Adapter - Start / DWKLØ-FCS

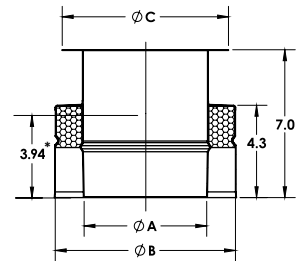
Ø	ØA	ØB	ØC
3	3	5.5	4
4	4	6.5	5
5	5	7.5	6
6	6	8.5	7
7	7	9.5	8
8	8	10.5	9
9	9	11.5	10
10	10	12.5	11
11	11	13.5	12
12	12	14.5	13
13	13	15.5	14
14	14	16.5	15
16	16	18.5	17
18	18	20.5	19
20	20	22.5	21
22	22	24.5	23
24	24	26.5	25
26	26	28.5	27
28	28	30.5	29
30	30	32.5	31
32	32	34.5	33
34	34	36.5	35
36	36	38.5	37



\* Installed length

## Flange Collar Adapter - End / DWKL-FCE

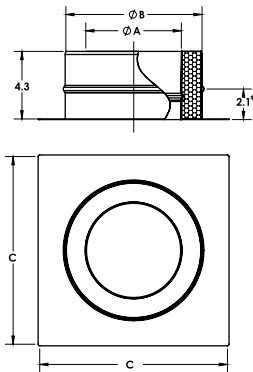
Ø	ØA	ØB	ØC	ti/ta
3	3	5.5	4	0.035/0.024
4	4	6.5	5	
5	5	7.5	6	
6	6	8.5	7	
7	7	9.5	8	
8	8	10.5	9	
9	9	11.5	10	
10	10	12.5	11	
11	11	13.5	12	
12	12	14.5	13	
13	13	15.5	14	
14	14	16.5	15	
16	16	18.5	17	
18	18	20.5	19	
20	20	22.5	21	
22	22	24.5	23	
24	24	26.5	25	
26	26	28.5	27	
28	28	30.5	29	
30	30	32.5	31	
32	32	34.5	33	
34	34	36.5	35	
36	36	38.5	37	



\* Installed length

## Fan Plate Adapter - Start / DWKLØ-FPS

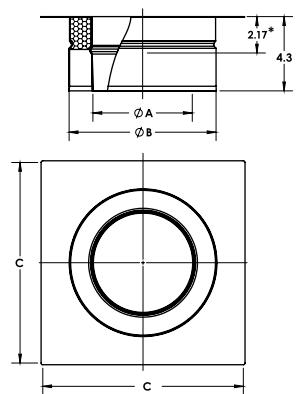
Ø	ØA	ØB	ØC
3	3	5.5	min Ø A + 3"
4	4	6.5	
5	5	7.5	
6	6	8.5	
7	7	9.5	
8	8	10.5	
9	9	11.5	
10	10	12.5	
11	11	13.5	
12	12	14.5	
13	13	15.5	
14	14	16.5	
16	16	18.5	
18	18	20.5	
20	20	22.5	
22	22	24.5	
24	24	26.5	
26	26	28.5	
28	28	30.5	
30	30	32.5	
32	32	34.5	
34	34	36.5	
36	36	38.5	



\* Installed length

## Fan Plate Adapter - End / DWKLØ-FPE

Ø	ØA	ØB	ØC
3	3	5.5	min Ø A + 3"
4	4	6.5	
5	5	7.5	
6	6	8.5	
7	7	9.5	
8	8	10.5	
9	9	11.5	
10	10	12.5	
11	11	13.5	
12	12	14.5	
13	13	15.5	
14	14	16.5	
16	16	18.5	
18	18	20.5	
20	20	22.5	
22	22	24.5	
24	24	26.5	
26	26	28.5	
28	28	30.5	
30	30	32.5	
32	32	34.5	
34	34	36.5	
36	36	38.5	

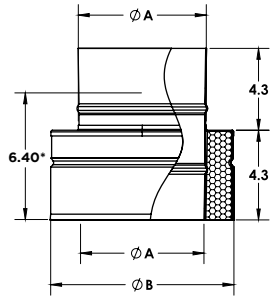


\* Installed length

# ADAPTERS

## DWKL to SWKL Adapter / DWKLØ-D2S

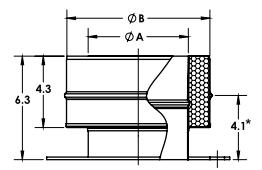
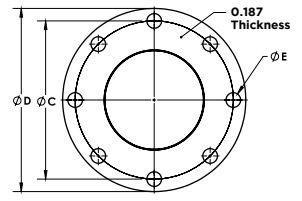
Ø	ØA	ØB	ti/ta	lb
3	3	5.5	0.04 / 0.024	6.0
4	4	6.5		7.3
5	5	7.5		8.6
6	6	8.5		9.9
7	7	9.5		11.2
8	8	10.5		12.5
9	9	11.5		13.8
10	10	12.5		15.1
11	11	13.5		16.4
12	12	14.5		17.7
13	13	15.5		19.0
14	14	16.5		20.3
16	16	18.5		22.9
18	18	20.5		25.6
20	20	22.5		27.7
22	22	24.5		30.3
24	24	26.5		32.9
26	26	28.5		35.4
28	28	30.5	38.0	
30	30	32.5	40.6	
32	32	34.5	43.1	
34	34	36.5	45.7	
36	36	38.5	48.3	



\* Installed length

## 125/150 Lb. ANSI Flange - Start / DWKLØ-AFS

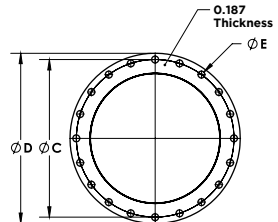
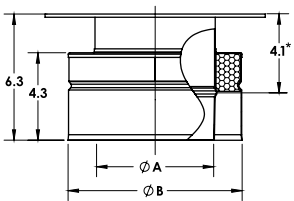
Ø	ØA	ØB	ØC	ØD	ØE	n.holes
3	3	5.5	6.00	7.50	0.75	4
4	4	6.5	7.50	9.00	0.75	8
5	5	7.5	8.50	10.00	0.88	8
6	6	8.5	9.50	11.00	0.88	8
7	7	9.5	11.75	13.50	0.88	8
8	8	10.5	11.75	13.50	0.88	8
9	9	11.5	14.25	16.00	1.00	12
10	10	12.5	14.25	16.00	1.00	12
11	11	13.5	16.00	18.00	1.00	12
12	12	14.5	17.00	19.00	1.12	12
13	13	15.5	18.75	19.00	1.12	12
14	14	16.5	21.25	21.00	1.12	12
16	16	18.5	22.75	23.50	1.25	16
18	18	20.5	22.75	25.00	1.25	16
20	20	22.5	25.00	27.50	1.38	20
22	22	24.5	29.50	32.00	1.38	20
24	24	26.5	29.50	32.00	1.38	20
26	26	28.5	31.50	34.00	1.38	20
28	28	30.5	33.50	36.00	1.38	20
30	30	32.5	35.50	38.00	1.38	20
32	32	34.5	37.50	40.00	1.38	20
34	34	36.5	39.50	42.00	1.38	20
36	36	38.5	41.50	44.00	1.38	20



\* Installed length

## 125/150 Lb. ANSI Flange - End / DWKLØ-AFE

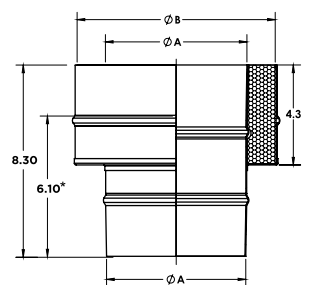
Ø	ØA	ØB	ØC	ØD	ØE	n.holes
3	3	5.5	6.00	7.50	0.75	4
4	4	6.5	7.50	9.00	0.75	8
5	5	7.5	8.50	10.00	0.88	8
6	6	8.5	9.50	11.00	0.88	8
7	7	9.5	11.75	13.50	0.88	8
8	8	10.5	11.75	13.50	0.88	8
9	9	11.5	14.25	16.00	1.00	12
10	10	12.5	14.25	16.00	1.00	12
11	11	13.5	16.00	18.00	1.00	12
12	12	14.5	17.00	19.00	1.00	12
13	13	15.5	18.75	19.00	1.00	12
14	14	16.5	21.25	21.00	1.12	12
16	16	18.5	22.75	23.50	1.12	16
18	18	20.5	22.75	25.00	1.25	16
20	20	22.5	25.00	27.50	1.25	20
22	22	24.5	29.50	32.00	1.38	20
24	24	26.5	29.50	32.00	1.38	20
26	26	28.5	31.50	34.00	1.38	20
28	28	30.5	33.50	36.00	1.38	20
30	30	32.5	35.50	38.00	1.38	20
32	32	34.5	37.50	40.00	1.38	20
34	34	36.5	39.50	42.00	1.38	20
36	36	38.5	41.50	44.00	1.38	20



\* Installed length

## SWKL to DWKL Adapter / SWKLØ-S2D

Ø	ØA	ØB	t	lb
3	3	5.5	0.035	4.3
4	4	6.5		5.4
5	5	7.5		6.5
6	6	8.5		7.5
7	7	9.5		8.6
8	8	10.5		9.7
9	9	11.5		10.8
10	10	12.5		11.8
11	11	13.5		12.9
12	12	14.5		14.0
13	13	15.5		15.1
14	14	16.5		16.1
16	16	18.5		18.3
18	18	20.5		20.5
20	20	22.5		22.5
22	22	24.5		24.6
24	24	26.5		26.8
26	26	28.5		28.9
28	28	30.5	31.0	
30	30	32.5	33.5	
32	32	34.5	35.3	
34	34	36.5	37.5	
36	36	38.5	39.6	

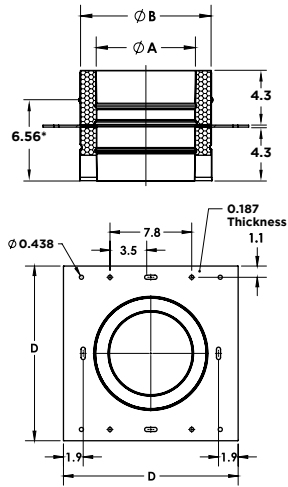


\* Installed length

# SUPPORTS

## Anchor Support Plate / DWKLØ-APS

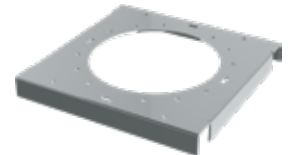
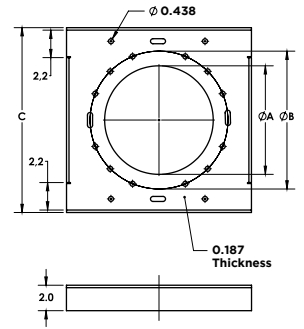
Ø	ØA	ØB	D
3	3	5.5	B + 6
4	4	6.5	B + 6
5	5	7.5	B + 6
6	6	8.5	B + 6
7	7	9.5	B + 6
8	8	10.5	B + 6
9	9	11.5	B + 6
10	10	12.5	B + 6
11	11	13.5	B + 6
12	12	14.5	B + 6
13	13	15.5	B + 6
14	14	16.5	B + 6
16	16	18.5	B + 6
18	18	20.5	B + 6
20	20	22.5	B + 6
22	22	24.5	B + 6
24	24	26.5	B + 6
26	26	28.5	B + 6
28	28	30.5	B + 6
30	30	32.5	B + 6
32	32	34.5	B + 6
34	34	36.5	B + 6
36	36	38.5	B + 6



\* Installed length

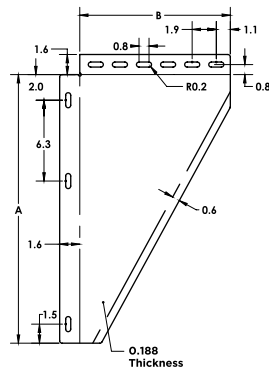
## Heavy Duty Base / DWKLØ-HDB

Ø	ØA	ØB	C
3	5.5	ØA+2.3	ØA+6
4	6.5	ØA+2.3	ØA+6
5	7.5	ØA+2.3	ØA+6
6	8.5	ØA+2.3	ØA+6
7	9.5	ØA+2.3	ØA+6
8	10.5	ØA+2.3	ØA+6
9	11.5	ØA+2.3	ØA+6
10	12.5	ØA+2.3	ØA+6
11	13.5	ØA+2.3	ØA+6
12	14.5	ØA+2.3	ØA+6
13	15.5	ØA+2.3	ØA+6
14	16.5	ØA+2.3	ØA+6
16	18.5	ØA+2.3	ØA+6
18	20.5	ØA+2.3	ØA+6
20	22.5	ØA+2.3	ØA+6
22	24.5	ØA+2.3	ØA+6
24	26.5	ØA+2.3	ØA+6
26	28.5	ØA+2.3	ØA+6
28	30.5	ØA+2.3	ØA+6
30	32.5	ØA+2.3	ØA+6
32	34.5	ØA+2.3	ØA+6
34	36.5	ØA+2.3	ØA+6
36	38.5	ØA+2.3	ØA+6



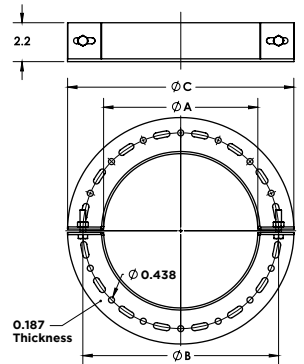
## Wall Brackets for Support / Ring / DWKLØ-WB

Ø	A	B
3	21.06	11.81
4	21.06	11.81
5	22.24	12.99
6	22.24	13.78
7	22.24	13.78
8	24.21	15.75
9	24.21	17.72
10	24.21	17.72
11	26.18	17.72
12	26.18	19.69
13	26.18	23.62
14	26.18	23.62
16	28.15	23.62
18	28.15	25.59
20	30.12	27.56
22	30.12	29.53
24	30.12	29.53
26	32.15	29.53
28	32.15	29.53
30	32.15	29.53
32	34.18	29.53
34	34.18	29.53
36	34.18	29.53



## Full Angle Ring / DWKLØ-FAR

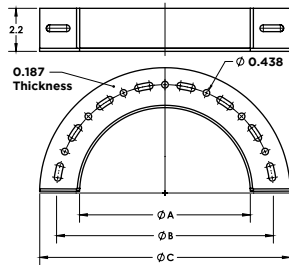
Ø	A	ØA	ØB	ØC
3	5.5	A+1/8	ØA+2.3	ØA + 4
4	6.5	A+1/8	ØA+2.3	ØA + 4
5	7.5	A+1/8	ØA+2.3	ØA + 4
6	8.5	A+1/8	ØA+2.3	ØA + 4
7	9.5	A+1/8	ØA+2.3	ØA + 4
8	10.5	A+1/8	ØA+2.3	ØA + 4
9	11.5	A+1/8	ØA+2.3	ØA + 4
10	12.5	A+1/8	ØA+2.3	ØA + 4
11	13.5	A+1/8	ØA+2.3	ØA + 4
12	14.5	A+1/8	ØA+2.3	ØA + 4
13	15.5	A+1/8	ØA+2.3	ØA + 4
14	16.5	A+1/8	ØA+2.3	ØA + 4
16	18.5	A+1/8	ØA+2.3	ØA + 4
18	20.5	A+1/8	ØA+2.3	ØA + 4
20	22.5	A+1/8	ØA+2.3	ØA + 4
22	24.5	A+1/8	ØA+2.3	ØA + 4
24	26.5	A+1/8	ØA+2.3	ØA + 4
26	28.5	A+1/8	ØA+2.3	ØA + 4
28	30.5	A+1/8	ØA+2.3	ØA + 4
30	32.5	A+1/8	ØA+2.3	ØA + 4
32	34.5	A+1/8	ØA+2.3	ØA + 4
34	36.5	A+1/8	ØA+2.3	ØA + 4
36	38.5	A+1/8	ØA+2.3	ØA + 4



# SUPPORTS

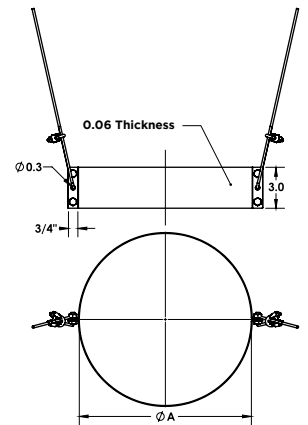
## Half Angle Ring / DWKLØ-HAR

Ø	A	ØA	ØB	ØC
3	5.5	A+1/8	ØA+2.3	ØA +4
4	6.5	A+1/8	ØA+2.3	ØA +4
5	7.5	A+1/8	ØA+2.3	ØA +4
6	8.5	A+1/8	ØA+2.3	ØA +4
7	9.5	A+1/8	ØA+2.3	ØA +4
8	10.5	A+1/8	ØA+2.3	ØA +4
9	11.5	A+1/8	ØA+2.3	ØA +4
10	12.5	A+1/8	ØA+2.3	ØA +4
11	13.5	A+1/8	ØA+2.3	ØA +4
12	14.5	A+1/8	ØA+2.3	ØA +4
13	15.5	A+1/8	ØA+2.3	ØA +4
14	16.5	A+1/8	ØA+2.3	ØA +4
16	18.5	A+1/8	ØA+2.3	ØA +4
18	20.5	A+1/8	ØA+2.3	ØA +4
20	22.5	A+1/8	ØA+2.3	ØA +4
22	24.5	A+1/8	ØA+2.3	ØA +4
24	26.5	A+1/8	ØA+2.3	ØA +4
26	28.5	A+1/8	ØA+2.3	ØA +4
28	30.5	A+1/8	ØA+2.3	ØA +4
30	32.5	A+1/8	ØA+2.3	ØA +4
32	34.5	A+1/8	ØA+2.3	ØA +4
34	36.5	A+1/8	ØA+2.3	ØA +4
36	38.5	A+1/8	ØA+2.3	ØA +4



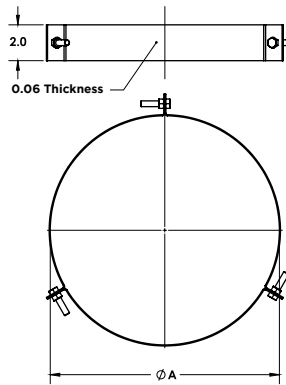
## Light Support Band / DWKLØ-LSB

Ø	ØA
3	5.5
4	6.5
5	7.5
6	8.5
7	9.5
8	10.5
9	11.5
10	12.5
11	13.5
12	14.5
13	15.5
14	16.5
16	18.5
18	20.5
20	22.5
22	24.5
24	26.5
26	28.5
28	30.5
30	32.5
32	34.5
34	36.5
36	38.5



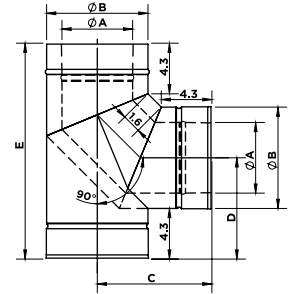
## Guy Wires Band / DWKLØ-GWB

Ø	ØA
3	5.5
4	6.5
5	7.5
6	8.5
7	9.5
8	10.5
9	11.5
10	12.5
11	13.5
12	14.5
13	15.5
14	16.5
16	18.5
18	20.5
20	22.5
22	24.5
24	26.5
26	28.5
28	30.5
30	32.5
32	34.5
34	36.5
36	38.5



## Elbow 90° with support leg / DWKLØ-90ES

Ø	A	B	C	D	E
3	3	5.5	8.24	7.1	15.34
4	4	6.5	8.74	7.6	16.34
5	5	7.5	9.24	8.1	17.34
6	6	8.5	9.74	8.6	18.34
7	7	9.5	10.24	9.1	19.34
8	8	10.5	10.74	9.6	20.34
9	9	11.5	11.24	10.1	21.34
10	10	12.5	11.74	10.6	22.34
11	11	13.5	12.24	11.1	23.34
12	12	14.5	12.74	11.6	24.34
13	13	15.5	13.24	12.1	25.34
14	14	16.5	13.74	12.6	26.34
16	16	18.5	14.74	13.6	28.34
18	18	20.5	15.74	14.6	30.34
20	20	22.5	16.74	15.6	32.34
22	22	24.5	17.74	16.6	34.34
24	24	26.5	18.74	17.6	36.34
26	26	28.5	19.74	18.6	38.34
28	28	30.5	20.74	19.6	40.34
30	30	32.5	21.74	20.6	42.34
32	32	34.5	22.74	21.6	44.34
34	34	36.5	23.74	22.6	46.34
36	36	38.5	24.74	23.6	48.34



For use with DWKLØSBP

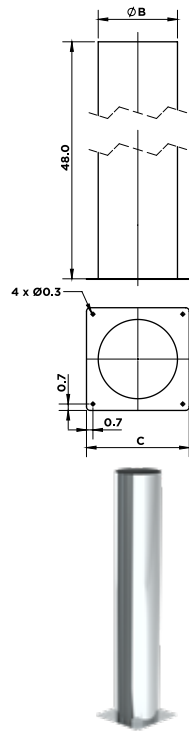


\* Installed length

# SUPPORTS

## Support Base Plate / DWKLØSBP

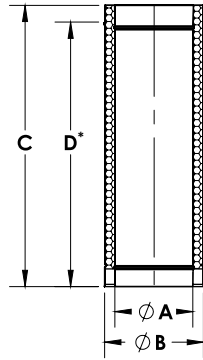
Ø	B	C
3	5.5	8.16
4	6.5	9.16
5	7.5	10.16
6	8.5	11.16
7	9.5	12.16
8	10.5	13.16
9	11.5	14.16
10	12.5	15.16
11	13.5	16.16
12	14.5	17.16
13	15.5	18.16
14	16.5	19.16
16	18.5	21.16
18	20.5	23.16
20	22.5	25.16
22	24.5	27.16
24	26.5	29.16
26	28.5	31.16
28	30.5	33.16
30	32.5	35.16
32	34.5	37.16
34	36.5	39.16
36	38.5	41.16



# STRAIGHT LENGTHS

## 9" Fixed Length / DWKLØ-9L

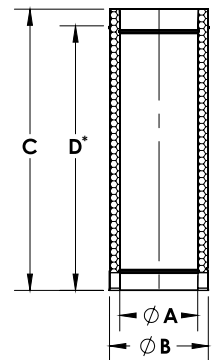
Ø	ØA	ØB	C	D
3	3	5.5	9.0	6.8
4	4	6.5	9.0	6.8
5	5	7.5	9.0	6.8
6	6	8.5	9.0	6.8
7	7	9.5	9.0	6.8
8	8	10.5	9.0	6.8
9	9	11.5	9.0	6.8
10	10	12.5	9.0	6.8
11	11	13.5	9.0	6.8
12	12	14.5	9.0	6.8
13	13	15.5	9.0	6.8
14	14	16.5	9.0	6.8
16	16	18.5	9.0	6.8
18	18	20.5	9.0	6.8
20	20	22.5	9.0	6.8
22	22	24.5	9.0	6.8
24	24	26.5	9.0	6.8
26	26	28.5	9.0	6.8
28	28	30.5	9.0	6.8
30	30	32.5	9.0	6.8
32	32	34.5	9.0	6.8
34	34	36.5	9.0	6.8
36	36	38.5	9.0	6.8



\* Installed length

## 12" Fixed Length / DWKLØ-12L

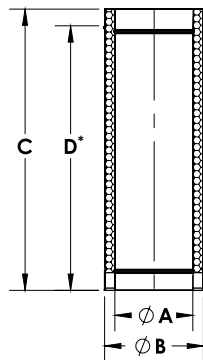
Ø	ØA	ØB	C	D
3	3	5.5	12.0	9.8
4	4	6.5	12.0	9.8
5	5	7.5	12.0	9.8
6	6	8.5	12.0	9.8
7	7	9.5	12.0	9.8
8	8	10.5	12.0	9.8
9	9	11.5	12.0	9.8
10	10	12.5	12.0	9.8
11	11	13.5	12.0	9.8
12	12	14.5	12.0	9.8
13	13	15.5	12.0	9.8
14	14	16.5	12.0	9.8
16	16	18.5	12.0	9.8
18	18	20.5	12.0	9.8
20	20	22.5	12.0	9.8
22	22	24.5	12.0	9.8
24	24	26.5	12.0	9.8
26	26	28.5	12.0	9.8
28	28	30.5	12.0	9.8
30	30	32.5	12.0	9.8
32	32	34.5	12.0	9.8
34	34	36.5	12.0	9.8
36	36	38.5	12.0	9.8



\* Installed length

## 18" Fixed Length / DWKLØ-18L

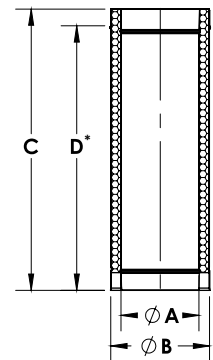
Ø	ØA	ØB	C	D
3	3	5.5	18.0	15.8
4	4	6.5	18.0	15.8
5	5	7.5	18.0	15.8
6	6	8.5	18.0	15.8
7	7	9.5	18.0	15.8
8	8	10.5	18.0	15.8
9	9	11.5	18.0	15.8
10	10	12.5	18.0	15.8
11	11	13.5	18.0	15.8
12	12	14.5	18.0	15.8
13	13	15.5	18.0	15.8
14	14	16.5	18.0	15.8
16	16	18.5	18.0	15.8
18	18	20.5	18.0	15.8
20	20	22.5	18.0	15.8
22	22	24.5	18.0	15.8
24	24	26.5	18.0	15.8
26	26	28.5	18.0	15.8
28	28	30.5	18.0	15.8
30	30	32.5	18.0	15.8
32	32	34.5	18.0	15.8
34	34	36.5	18.0	15.8
36	36	38.5	18.0	15.8



\* Installed length

## 24" Fixed Length / DWKLØ-24L

Ø	ØA	ØB	C	D
3	3	5.5	24.0	21.8
4	4	6.5	24.0	21.8
5	5	7.5	24.0	21.8
6	6	8.5	24.0	21.8
7	7	9.5	24.0	21.8
8	8	10.5	24.0	21.8
9	9	11.5	24.0	21.8
10	10	12.5	24.0	21.8
11	11	13.5	24.0	21.8
12	12	14.5	24.0	21.8
13	13	15.5	24.0	21.8
14	14	16.5	24.0	21.8
16	16	18.5	24.0	21.8
18	18	20.5	24.0	21.8
20	20	22.5	24.0	21.8
22	22	24.5	24.0	21.8
24	24	26.5	24.0	21.8
26	26	28.5	24.0	21.8
28	28	30.5	24.0	21.8
30	30	32.5	24.0	21.8
32	32	34.5	24.0	21.8
34	34	36.5	24.0	21.8
36	36	38.5	24.0	21.8

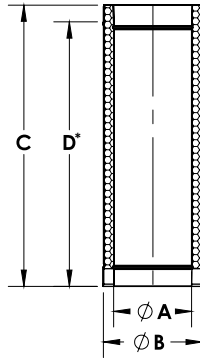


\* Installed length

# STRAIGHT LENGTHS

## 30" Fixed Length / DWKLØ-30L

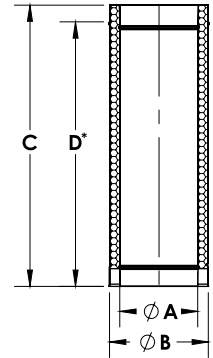
Ø	ØA	ØB	C	D
3	3	5.5	30.0	27.8
4	4	6.5	30.0	27.8
5	5	7.5	30.0	27.8
6	6	8.5	30.0	27.8
7	7	9.5	30.0	27.8
8	8	10.5	30.0	27.8
9	9	11.5	30.0	27.8
10	10	12.5	30.0	27.8
11	11	13.5	30.0	27.8
12	12	14.5	30.0	27.8
13	13	15.5	30.0	27.8
14	14	16.5	30.0	27.8
16	16	18.5	30.0	27.8
18	18	20.5	30.0	27.8
20	20	22.5	30.0	27.8
22	22	24.5	30.0	27.8
24	24	26.5	30.0	27.8
26	26	28.5	30.0	27.8
28	28	30.5	30.0	27.8
30	30	32.5	30.0	27.8
32	32	34.5	30.0	27.8
34	34	36.5	30.0	27.8
36	36	38.5	30.0	27.8



\* Installed length

## 36" Fixed Length / DWKLØ-36L

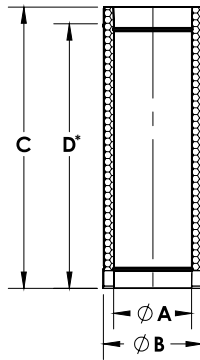
Ø	ØA	ØB	C	D
3	3	5.5	36.0	33.8
4	4	6.5	36.0	33.8
5	5	7.5	36.0	33.8
6	6	8.5	36.0	33.8
7	7	9.5	36.0	33.8
8	8	10.5	36.0	33.8
9	9	11.5	36.0	33.8
10	10	12.5	36.0	33.8
11	11	13.5	36.0	33.8
12	12	14.5	36.0	33.8
13	13	15.5	36.0	33.8
14	14	16.5	36.0	33.8
16	16	18.5	36.0	33.8
18	18	20.5	36.0	33.8
20	20	22.5	36.0	33.8
22	22	24.5	36.0	33.8
24	24	26.5	36.0	33.8
26	26	28.5	36.0	33.8
28	28	30.5	36.0	33.8
30	30	32.5	36.0	33.8
32	32	34.5	36.0	33.8
34	34	36.5	36.0	33.8
36	36	38.5	36.0	33.8



\* Installed length

## 42" Fixed Length / DWKLØ-42L

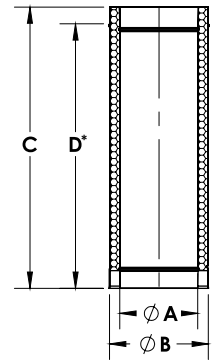
Ø	ØA	ØB	C	D
3	3	5.5	42.0	39.8
4	4	6.5	42.0	39.8
5	5	7.5	42.0	39.8
6	6	8.5	42.0	39.8
7	7	9.5	42.0	39.8
8	8	10.5	42.0	39.8
9	9	11.5	42.0	39.8
10	10	12.5	42.0	39.8
11	11	13.5	42.0	39.8
12	12	14.5	42.0	39.8
13	13	15.5	42.0	39.8
14	14	16.5	42.0	39.8
16	16	18.5	42.0	39.8
18	18	20.5	42.0	39.8
20	20	22.5	42.0	39.8
22	22	24.5	42.0	39.8
24	24	26.5	42.0	39.8
26	26	28.5	42.0	39.8
28	28	30.5	42.0	39.8
30	30	32.5	42.0	39.8
32	32	34.5	42.0	39.8
34	34	36.5	42.0	39.8
36	36	38.5	42.0	39.8



\* Installed length

## 48" Fixed Length / DWKLØ-48L

Ø	ØA	ØB	C	D
3	3	5.5	48.0	45.8
4	4	6.5	48.0	45.8
5	5	7.5	48.0	45.8
6	6	8.5	48.0	45.8
7	7	9.5	48.0	45.8
8	8	10.5	48.0	45.8
9	9	11.5	48.0	45.8
10	10	12.5	48.0	45.8
11	11	13.5	48.0	45.8
12	12	14.5	48.0	45.8
13	13	15.5	48.0	45.8
14	14	16.5	48.0	45.8
16	16	18.5	48.0	45.8
18	18	20.5	48.0	45.8
20	20	22.5	48.0	45.8
22	22	24.5	48.0	45.8
24	24	26.5	48.0	45.8
26	26	28.5	48.0	45.8
28	28	30.5	48.0	45.8
30	30	32.5	48.0	45.8
32	32	34.5	48.0	45.8
34	34	36.5	48.0	45.8
36	36	38.5	48.0	45.8



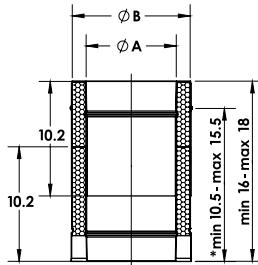
\* Installed length



# ADJUSTABLE LENGTHS

## 18" Adjustable Length / DWKLØ-18AL

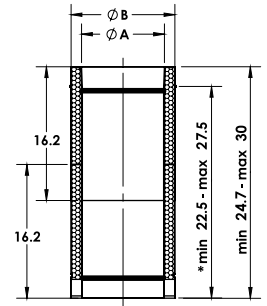
Ø	ØA	ØB
3	3	5.5
4	4	6.5
5	5	7.5
6	6	8.5
7	7	9.5
8	8	10.5
9	9	11.5
10	10	12.5
11	11	13.5
12	12	14.5
13	13	15.5
14	14	16.5
16	16	18.5
18	18	20.5
20	20	22.5
22	22	24.5
24	24	26.5
26	26	28.5
28	28	30.5
30	30	32.5
32	32	34.5
34	34	36.5
36	36	38.5



\* Installed length - range

## 30" Adjustable Length / DWKLØ-30AL

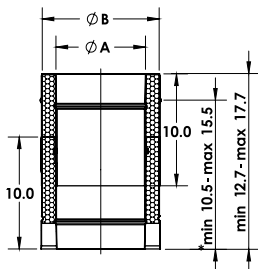
Ø	ØA	ØB
3	3	5.5
4	4	6.5
5	5	7.5
6	6	8.5
7	7	9.5
8	8	10.5
9	9	11.5
10	10	12.5
11	11	13.5
12	12	14.5
13	13	15.5
14	14	16.5
16	16	18.5
18	18	20.5
20	20	22.5
22	22	24.5
24	24	26.5
26	26	28.5
28	28	30.5
30	30	32.5
32	32	34.5
34	34	36.5
36	36	38.5



\* Installed length - range

## 18" Adjustable Length w/Gasket / DWKLØ-18AG

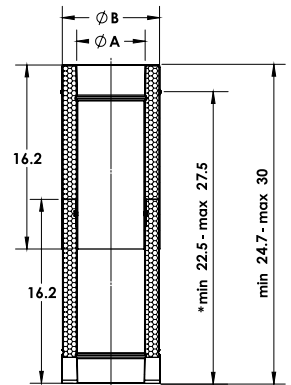
Ø	ØA	ØB
3	3	5.5
4	4	6.5
5	5	7.5
6	6	8.5
7	7	9.5
8	8	10.5
9	9	11.5
10	10	12.5
11	11	13.5
12	12	14.5
13	13	15.5
14	14	16.5
16	16	18.5
18	18	20.5
20	20	22.5
22	22	24.5
24	24	26.5
26	26	28.5
28	28	30.5
30	30	32.5
32	32	34.5
34	34	36.5
36	36	38.5



\* Installed length - range (min - max)

## 30" Adjustable Length w/Gasket / DWKLØ-30AG

Ø	ØA	ØB
3	3	5.5
4	4	6.5
5	5	7.5
6	6	8.5
7	7	9.5
8	8	10.5
9	9	11.5
10	10	12.5
11	11	13.5
12	12	14.5
13	13	15.5
14	14	16.5
16	16	18.5
18	18	20.5
20	20	22.5
22	22	24.5
24	24	26.5
26	26	28.5
28	28	30.5
30	30	32.5
32	32	34.5
34	34	36.5
36	36	38.5

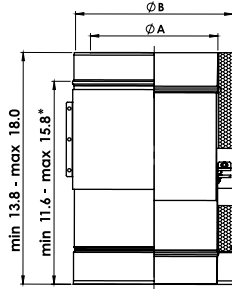


\* Installed length - (min - max)

# ADJUSTABLE LENGTHS

## 18" Adjustable Length with Graphite Packing / DWKLØ-18ALG

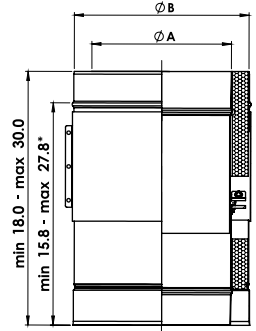
Ø	ØA	ØB
3	3	5.5
4	4	6.5
5	5	7.5
6	6	8.5
7	7	9.5
8	8	10.5
9	9	11.5
10	10	12.5
11	11	13.5
12	12	14.5
13	13	15.5
14	14	16.5
16	16	18.5
18	18	20.5
20	20	22.5
22	22	24.5
24	24	26.5
26	26	28.5
28	28	30.5
30	30	32.5
32	32	34.5
34	34	36.5
36	36	38.5



\* Installed length - range (min - max)

## 30" Adjustable Length with Graphite Packing / DWKLØ-30ALG

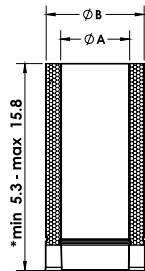
Ø	ØA	ØB
3	3	5.5
4	4	6.5
5	5	7.5
6	6	8.5
7	7	9.5
8	8	10.5
9	9	11.5
10	10	12.5
11	11	13.5
12	12	14.5
13	13	15.5
14	14	16.5
16	16	18.5
18	18	20.5
20	20	22.5
22	22	24.5
24	24	26.5
26	26	28.5
28	28	30.5
30	30	32.5
32	32	34.5
34	34	36.5
36	36	38.5



\* Installed length - (min - max)

## 18" Cut Pipe Length / DWKLØ-18CL

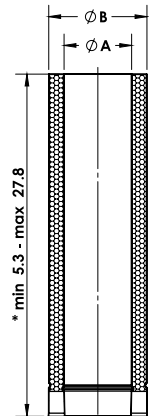
Ø	ØA	ØB
3	3	5.5
4	4	6.5
5	5	7.5
6	6	8.5
7	7	9.5
8	8	10.5
9	9	11.5
10	10	12.5
11	11	13.5
12	12	14.5
13	13	15.5
14	14	16.5
16	16	18.5
18	18	20.5
20	20	22.5
22	22	24.5
24	24	26.5
26	26	28.5
28	28	30.5
30	30	32.5
32	32	34.5
34	34	36.5
36	36	38.5



\* Installed length - (min - max)

## Cut Pipe Length / DWKLØ-30CL

Ø	ØA	ØB
3	3	5.5
4	4	6.5
5	5	7.5
6	6	8.5
7	7	9.5
8	8	10.5
9	9	11.5
10	10	12.5
11	11	13.5
12	12	14.5
13	13	15.5
14	14	16.5
16	16	18.5
18	18	20.5
20	20	22.5
22	22	24.5
24	24	26.5
26	26	28.5
28	28	30.5
30	30	32.5
32	32	34.5
34	34	36.5
36	36	38.5

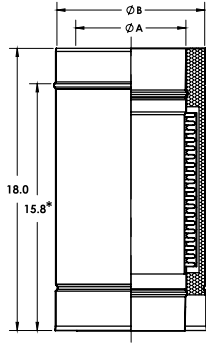


\* Installed length - (min - max)

# ADJUSTABLE LENGTHS

## 18" Lined Bellows Length / DWKLØ-LBL

Ø	ØA	ØB
3	3	5.5
4	4	6.5
5	5	7.5
6	6	8.5
7	7	9.5
8	8	10.5
9	9	11.5
10	10	12.5
11	11	13.5
12	12	14.5
13	13	15.5
14	14	16.5
16	16	18.5
18	18	20.5
20	20	22.5
22	22	24.5
24	24	26.5
26	26	28.5
28	28	30.5
30	30	32.5
32	32	34.5
34	34	36.5
36	36	38.5

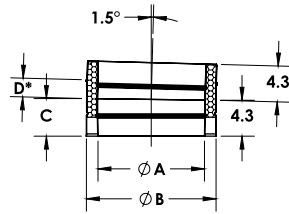


\* Installed length

# ELBOWS

## 1.5° Elbow / DWKLØ-1.5EL

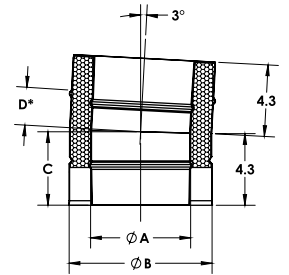
Ø	ØA	ØB	C	D
3	3	5.5	4.37	2.18
4	4	6.5	4.37	2.20
5	5	7.5	4.38	2.22
6	6	8.5	4.39	2.24
7	7	9.5	4.39	2.26
8	8	10.5	4.40	2.28
9	9	11.5	4.41	2.30
10	10	12.5	4.41	2.32
11	11	13.5	4.42	2.34
12	12	14.5	4.43	2.36
13	13	15.5	4.44	2.38
14	14	16.5	4.44	2.40
16	16	18.5	4.45	2.44
18	18	20.5	4.47	2.48
20	20	22.5	4.48	2.52
22	22	24.5	4.49	2.56
24	24	26.5	4.50	2.60
26	26	28.5	4.51	2.64
28	28	30.5	4.51	2.68
30	30	32.5	4.52	2.72
32	32	34.5	4.53	2.75
34	34	36.5	4.54	2.79
36	36	38.5	4.55	2.83



\* Installed length

## 3° Elbow / DWKLØ-3EL

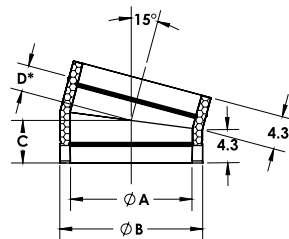
Ø	ØA	ØB	C	D
3	3	5.5	4.40	2.41
4	4	6.5	4.42	2.45
5	5	7.5	4.43	2.49
6	6	8.5	4.44	2.53
7	7	9.5	4.46	2.57
8	8	10.5	4.47	2.60
9	9	11.5	4.48	2.64
10	10	12.5	4.50	2.68
11	11	13.5	4.51	2.72
12	12	14.5	4.52	2.76
13	13	15.5	4.54	2.80
14	14	16.5	4.55	2.84
16	16	18.5	4.57	2.92
18	18	20.5	4.60	3.00
20	20	22.5	4.63	3.08
22	22	24.5	4.65	3.15
24	24	26.5	4.68	3.23
26	26	28.5	4.68	3.31
28	28	30.5	4.71	3.39
30	30	32.5	4.72	3.47
32	32	34.5	4.73	3.55
34	34	36.5	4.75	3.62
36	36	38.5	4.76	3.70



\* Installed length

## 15° Elbow / DWKLØ-15EL

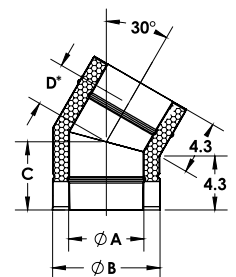
Ø	ØA	ØB	C	D
3	3	5.5	4.5	3.20
4	4	6.5	4.7	3.39
5	5	7.5	4.77	3.58
6	6	8.5	4.83	3.78
7	7	9.5	4.90	3.97
8	8	10.5	4.96	4.16
9	9	11.5	5.03	4.36
10	10	12.5	5.09	4.55
11	11	13.5	5.16	4.74
12	12	14.5	5.23	4.94
13	13	15.5	5.29	5.13
14	14	16.5	5.35	5.32
16	16	18.5	5.42	5.71
18	18	20.5	5.56	6.09
20	20	22.5	5.59	6.48
22	22	24.5	5.82	6.87
24	24	26.5	5.95	7.25
26	26	28.5	6.21	7.64
28	28	30.5	6.35	8.02
30	30	32.5	6.48	8.41
32	32	34.5	6.61	8.80
34	34	36.5	6.74	9.18
36	36	38.5	6.84	9.57



\* Installed length

## 30° Elbow / DWKLØ-30EL

Ø	ØA	ØB	C	D
3	3	5.5	5.08	2.80
4	4	6.5	5.22	2.93
5	5	7.5	5.35	3.07
6	6	8.5	5.48	3.20
7	7	9.5	5.62	3.33
8	8	10.5	5.75	3.47
9	9	11.5	5.89	3.60
10	10	12.5	6.02	3.74
11	11	13.5	4.7	4.01
12	12	14.5	6.29	4.20
13	13	15.5	4.7	4.23
14	14	16.5	6.56	4.27
16	16	18.5	6.82	4.51
18	18	20.5	7.09	4.81
20	20	22.5	7.36	5.07
22	22	24.5	7.63	5.34
24	24	26.5	7.90	5.61
26	26	28.5	8.16	5.88
28	28	30.5	8.43	6.14
30	30	32.5	8.70	6.41
32	32	34.5	8.97	6.68
34	34	36.5	9.24	6.95
36	36	38.5	9.50	7.22

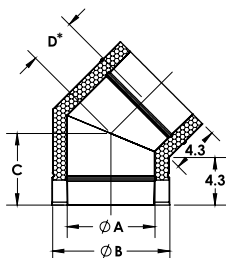


\* Installed length

# ELBOWS

## 45° Elbow / DWKLØ-45EL

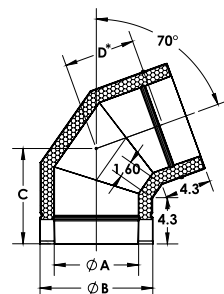
Ø	ØA	ØB	C	D
3	3	5.5	5.49	3.21
4	4	6.5	5.70	3.41
5	5	7.5	5.91	3.62
6	6	8.5	6.11	3.83
7	7	9.5	6.32	4.04
8	8	10.5	6.53	4.24
9	9	11.5	6.74	4.45
10	10	12.5	6.94	4.66
11	11	13.5	7.01	4.98
12	12	14.5	7.07	5.36
13	13	15.5	7.36	5.41
14	14	16.5	7.77	5.49
16	16	18.5	8.18	5.90
18	18	20.5	8.60	6.31
20	20	22.5	9.01	6.73
22	22	24.5	9.43	7.14
24	24	26.5	9.84	7.56
26	26	28.5	10.33	7.97
28	28	30.5	10.75	8.38
30	30	32.5	11.16	8.80
32	32	34.5	11.58	9.21
34	34	36.5	11.99	9.63
36	36	38.5	12.41	10.04



\* Installed length

## 70° Elbow / DWKLØ-70EL

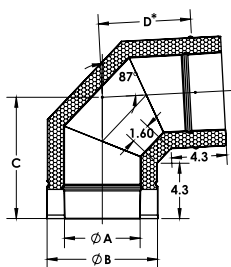
Ø	ØA	ØB	C	D
3	3	5.5	7.24	4.97
4	4	6.5	7.59	5.32
5	5	7.5	7.94	5.67
6	6	8.5	8.29	6.02
7	7	9.5	8.64	6.37
8	8	10.5	8.99	6.72
9	9	11.5	9.34	7.07
10	10	12.5	9.67	7.42
11	11	13.5	10.04	7.77
12	12	14.5	10.39	8.12
13	13	15.5	10.74	8.47
14	14	16.5	11.09	8.82
16	16	18.5	11.79	9.52
18	18	20.5	12.49	10.22
20	20	22.5	13.19	10.92
22	22	24.5	13.89	11.62
24	24	26.5	14.59	12.32
26	26	28.5	15.29	13.02
28	28	30.5	15.99	13.72
30	30	32.5	16.70	14.42
32	32	34.5	17.40	15.12
34	34	36.5	18.10	15.82
36	36	38.5	18.80	16.52



\* Installed length

## 87° Elbow / DWKLØ-87EL

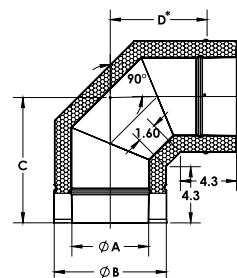
Ø	ØA	ØB	C	D
3	3	5.5	8.08	5.79
4	4	6.5	8.55	6.27
5	5	7.5	9.03	6.74
6	6	8.5	9.50	7.22
7	7	9.5	9.98	7.69
8	8	10.5	10.45	8.17
9	9	11.5	10.92	8.64
10	10	12.5	11.40	9.11
11	11	13.5	11.87	9.59
12	12	14.5	12.35	10.06
13	13	15.5	12.82	10.54
14	14	16.5	13.30	11.01
16	16	18.5	14.25	11.96
18	18	20.5	15.20	12.91
20	20	22.5	16.14	13.86
22	22	24.5	17.09	14.81
24	24	26.5	18.04	15.76
26	26	28.5	19.06	16.73
28	28	30.5	20.15	17.75
30	30	32.5	21.02	18.63
32	32	34.5	22.05	19.55
34	34	36.5	23.10	18.63
36	36	38.5	24.12	19.47



\* Installed length

## 90° Elbow / DWKLØ-90EL

Ø	ØA	ØB	C	D
3	3	5.5	8.25	5.96
4	4	6.5	8.75	6.46
5	5	7.5	9.25	6.96
6	6	8.5	9.75	7.46
7	7	9.5	10.25	7.96
8	8	10.5	10.75	8.46
9	9	11.5	11.25	8.96
10	10	12.5	11.75	9.46
11	11	13.5	12.25	9.96
12	12	14.5	12.75	10.46
13	13	15.5	13.25	10.96
14	14	16.5	13.75	11.46
16	16	18.5	14.75	12.46
18	18	20.5	15.75	13.46
20	20	22.5	16.75	14.46
22	22	24.5	17.75	15.46
24	24	26.5	18.75	16.46
26	26	28.5	19.75	17.46
28	28	30.5	20.75	18.46
30	30	32.5	21.75	19.46
32	32	34.5	22.75	20.46
34	34	36.5	23.75	21.46
36	36	38.5	24.75	22.46

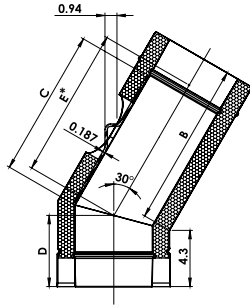


\* Installed length

# ELBOWS

## 30° Elbow with/Knock Plate / DWKLØ-30EK

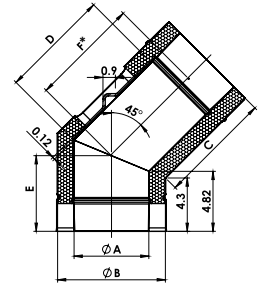
Ø	ØA	B	C	D	E
3	3	10.52	8.41	5.08	9.07
4	4	11.26	9.41	5.21	9.93
5	5	11.99	10.41	5.35	10.80
6	6	12.72	11.41	5.48	11.67
7	7	13.45	12.41	5.62	12.53
8	8	14.18	13.41	5.75	13.40
9	9	14.92	14.41	5.88	14.26
10	10	15.65	15.41	6.02	15.13
11	11	16.38	16.41	6.15	16.00
12	12	17.11	17.41	6.29	16.86
13	13	17.84	18.41	6.42	17.73
14	14	18.58	19.41	6.55	18.60
16	16	20.04	21.41	6.82	20.33
18	18	21.50	23.41	7.03	22.06
20	20	22.97	24.94	7.36	23.79
22	22	24.43	26.94	7.63	25.52
24	24	25.90	28.94	7.89	27.26
26	26	27.36	30.94	8.16	28.99
28	28	28.82	32.94	8.43	30.72
30	30	30.29	34.94	8.70	32.45
32	32	31.75	36.94	8.97	34.18
34	34	33.22	38.94	9.23	35.92
36	36	34.68	40.94	9.50	37.65



\* Installed length

## 45° Elbow with/Knock Plate / DWKLØ-45EK

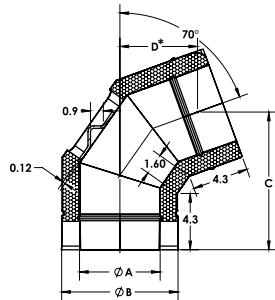
Ø	ØA	B	C	D	E	F
3	3	5.5	6.13	6.43	5.49	4.77
4	4	6.5	7.11	7.40	5.70	5.94
5	5	7.5	8.15	8.43	5.90	7.18
6	6	8.5	8.94	9.41	6.11	8.37
7	7	9.5	9.24	10.41	6.32	9.58
8	8	10.5	9.53	11.41	6.53	10.78
9	9	11.5	9.82	12.41	6.73	11.99
10	10	12.5	10.12	13.41	6.94	13.20
11	11	13.5	10.41	14.41	7.15	14.40
12	12	14.5	10.70	15.41	7.35	15.61
13	13	15.5	10.99	16.41	7.56	16.82
14	14	16.5	11.29	17.41	7.77	18.03
16	16	18.5	11.87	19.41	8.18	20.44
18	18	20.5	12.46	21.41	8.60	22.85
20	20	22.5	13.04	23.41	9.01	25.27
22	22	24.5	13.63	25.41	9.42	27.68
24	24	26.5	14.22	27.41	9.84	30.10
26	26	28.5	14.80	29.41	10.25	32.51
28	28	30.5	15.39	31.41	10.67	34.93
30	30	32.5	15.97	33.41	11.08	37.34
32	32	34.5	16.56	35.41	11.50	39.75
34	34	36.5	17.14	37.41	11.91	42.17
36	36	38.5	17.73	39.41	12.32	44.58



\* Installed length

## 70° Elbow with/Knock Plate / DWKLØ-70EK

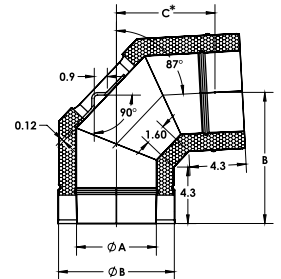
Ø	ØA	B	C	D
3	3	5.5	8.81	4.63
4	4	6.5	9.27	4.95
5	5	7.5	9.75	5.29
6	6	8.5	10.21	5.61
7	7	9.5	10.68	5.94
8	8	10.5	11.15	6.27
9	9	11.5	11.62	6.60
10	10	12.5	12.09	6.93
11	11	13.5	12.56	7.26
12	12	14.5	13.03	7.59
13	13	15.5	13.50	7.91
14	14	16.5	14.95	8.53
16	16	18.5	15.98	9.18
18	18	20.5	16.83	10.84
20	20	22.5	17.77	11.50
22	22	24.5	18.61	12.16
24	24	26.5	19.65	13.86
26	26	28.5	20.59	14.47
28	28	30.5	21.53	15.13
30	30	32.5	22.47	16.79
32	32	34.5	23.41	17.45
34	34	36.5	24.57	18.11
36	36	38.5	25.58	19.46



\* Installed length

## 87° Elbow with/Knock Plate / DWKLØ-87EK

Ø	A	B	C	D
3	3	5.5	7.75	5.32
4	4	6.5	8.24	5.78
5	5	7.5	8.75	6.27
6	6	8.5	9.24	6.74
7	7	9.5	9.74	7.21
8	8	10.5	10.24	7.68
9	9	11.5	10.74	8.16
10	10	12.5	11.24	8.63
11	11	13.5	11.74	9.11
12	12	14.5	12.24	9.58
13	13	15.5	13.74	10.05
14	14	16.5	13.24	10.53
16	16	18.5	14.24	11.47
18	18	20.5	15.24	12.42
20	20	22.5	16.23	13.37
22	22	24.5	17.23	14.32
24	24	26.5	18.23	15.26
26	26	28.5	19.59	16.55
28	28	30.5	20.58	17.50
30	30	32.5	21.68	18.54
32	32	34.5	21.58	19.39
34	34	36.5	23.58	20.38
36	36	38.5	24.29	24.58

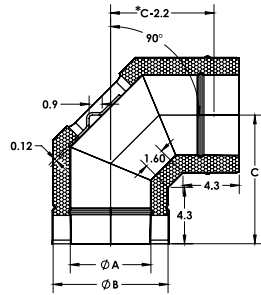


\* Installed length

# ELBOWS

## 90° Elbow with/Knock Plate / DWKLØ-90EK

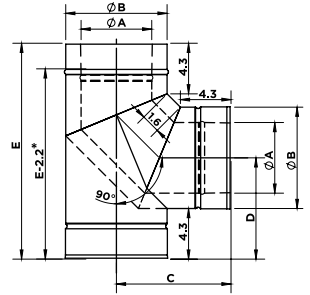
Ø	A	B	C
3	3	5.5	7.63
4	4	6.5	8.13
5	5	7.5	8.63
6	6	8.5	9.13
7	7	9.5	9.63
8	8	10.5	10.13
9	9	11.5	10.63
10	10	12.5	11.13
11	11	13.5	11.63
12	12	14.5	12.13
13	13	15.5	12.63
14	14	16.5	13.13
16	16	18.5	14.13
18	18	20.5	15.13
20	20	22.5	16.13
22	22	24.5	17.13
24	24	26.5	18.13
26	26	28.5	19.13
28	28	30.5	20.13
30	30	32.5	21.13
32	32	34.5	22.13
34	34	36.5	23.13
36	36	38.5	24.13



\* Installed length

## Elbow 90° with support leg / DWKLØ-90ES

Ø	A	B	C	D	E
3	3	5.5	8.24	7.1	15.34
4	4	6.5	8.74	7.6	16.34
5	5	7.5	9.24	8.1	17.34
6	6	8.5	9.74	8.6	18.34
7	7	9.5	10.24	9.1	19.34
8	8	10.5	10.74	9.6	20.34
9	9	11.5	11.24	10.1	21.34
10	10	12.5	11.74	10.6	22.34
11	11	13.5	12.24	11.1	23.34
12	12	14.5	12.74	11.6	24.34
13	13	15.5	13.24	12.1	25.34
14	14	16.5	13.74	12.6	26.34
16	16	18.5	14.74	13.6	28.34
18	18	20.5	15.74	14.6	30.34
20	20	22.5	16.74	15.6	32.34
22	22	24.5	17.74	16.6	34.34
24	24	26.5	18.74	17.6	36.34
26	26	28.5	19.74	18.6	38.34
28	28	30.5	20.74	19.6	40.34
30	30	32.5	21.74	20.6	42.34
32	32	34.5	22.74	21.6	44.34
34	34	36.5	23.74	22.6	46.34
36	36	38.5	24.74	23.6	48.34

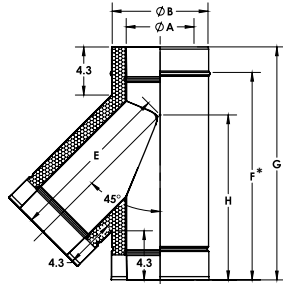


\* Installed length

# TEES

## 45° Tee / DWKLØ-45T

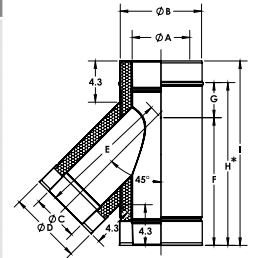
Ø	ØA	ØB	E	F	G	H
3	3	5.5	11.1	8.9	16.6	11.1
4	4	6.5	12.3	10.1	18.0	12.3
5	5	7.5	13.5	11.3	19.4	13.5
6	6	8.5	14.7	12.5	20.8	14.7
7	7	9.5	15.9	13.7	22.2	15.9
8	8	10.5	17.1	14.9	23.6	17.1
9	9	11.5	18.3	16.1	25.0	18.3
10	10	12.5	19.5	17.3	26.5	19.5
11	11	13.5	20.7	18.5	27.9	20.7
12	12	14.5	21.9	19.7	29.3	21.9
13	13	15.5	23.1	20.9	30.7	23.1
14	14	16.5	24.3	22.1	32.1	24.3
16	16	18.5	26.7	24.5	34.9	26.7
18	18	20.5	29.1	26.9	37.8	29.1
20	20	22.5	31.6	29.4	40.6	31.6
22	22	24.5	34.0	31.8	43.4	34.0
24	24	26.5	36.4	34.2	46.3	36.4
26	26	28.5	38.8	36.6	49.2	38.8
28	28	30.5	41.2	39	52.1	41.2
30	30	32.5	43.6	41.4	55	43.6
32	32	34.5	46	43.8	57.9	46
34	34	36.5	48.4	46.2	60.8	48.4
36	36	38.5	50.8	48.6	63.7	50.8



\* Installed length

## 45° Reduction Tee / DWKLØ-45TØ

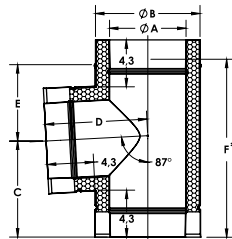
Ø	ØA	ØB	ØC	ØD	E	F	G	H	I
3	3	5.5							
4	4	6.5							
5	5	7.5							
6	6	8.5							
7	7	9.5							
8	8	10.5							
9	9	11.5							
10	10	12.5							
11	11	13.5							
12	12	14.5							
13	13	15.5							
14	14	16.5							
16	16	18.5							
18	18	20.5							
20	20	22.5							
22	22	24.5							
24	24	26.5							
26	26	28.5							
28	28	30.5							
30	30	32.5							
32	32	34.5							
34	34	36.5							
36	36	38.5							



\* Installed length

## 87° Tee / DWKL-87T

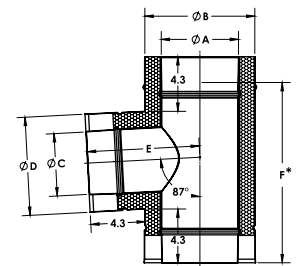
Ø	ØA	ØB	C	D	E	F
3	3	5.5	6.82	7.24	5.08	
4	4	6.5	7.32	7.76	5.59	
5	5	7.5	7.82	8.29	6.09	
6	6	8.5	8.32	8.82	6.59	
7	7	9.5	8.82	9.34	7.09	
8	8	10.5	9.32	9.87	7.59	
9	9	11.5	9.82	10.40	8.10	
10	10	12.5	10.32	10.93	8.60	
11	11	13.5	10.82	11.45	9.10	
12	12	14.5	11.32	11.98	9.60	
13	13	15.5	11.82	12.51	10.11	
14	14	16.5	12.32	13.03	10.61	
16	16	18.5	13.32	14.09	11.61	
18	18	20.5	14.31	15.14	12.62	
20	20	22.5	15.31	16.19	13.62	
22	22	24.5	16.31	17.25	14.62	
24	24	26.5	17.31	18.30	15.63	
26	26	28.5	18.31	19.42	16.61	
28	28	30.5	19.31	20.31	17.62	
30	30	32.5	20.32	21.36	18.61	
32	32	34.5	21.31	22.15	19.61	
34	34	36.5	22.32	23.15	20.63	
36	36	38.5	23.31	24.35	21.62	



\* Installed length

## 87° Reduction Tee / DWKLØ-87TØ

Ø	ØA	ØB	ØC	ØD	E	F
3	3	5.5			13.7	
4	4	6.5			14.7	
5	5	7.5			15.7	
6	6	8.5			16.6	
7	7	9.5			17.7	
8	8	10.5			18.5	
9	9	11.5			19.4	
10	10	12.5			20.4	
11	11	13.5			21.3	
12	12	14.5			22.3	
13	13	15.5			23.3	
14	14	16.5			24.2	
16	16	18.5			26.1	
18	18	20.5			28.0	
20	20	22.5			29.9	
22	22	24.5			31.8	
24	24	26.5			33.7	
26	26	28.5			35.8	
28	28	30.5			37.1	
30	30	32.5			39.9	
32	32	34.5			41.5	
34	34	36.5			43.2	
36	36	38.5			45.9	



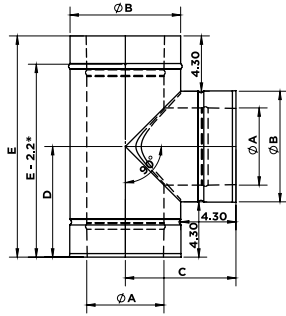
\* Installed length



# TEES

## 90° Tee / DWKLØ-90T

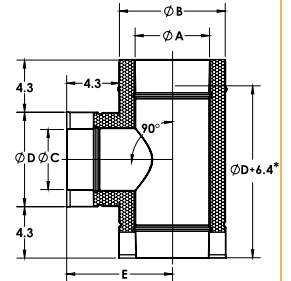
Ø	ØA	ØB	C	D	E
3	3	5.5	7.10	7.10	14.21
4	4	6.5	7.60	7.60	15.21
5	5	7.5	8.10	8.10	16.21
6	6	8.5	8.60	8.60	17.21
7	7	9.5	9.10	9.10	18.21
8	8	10.5	9.60	9.60	19.21
9	9	11.5	10.10	10.10	20.21
10	10	12.5	10.60	10.60	21.21
11	11	13.5	11.10	11.10	22.21
12	12	14.5	11.60	11.60	23.21
13	13	15.5	12.10	12.10	24.21
14	14	16.5	12.60	12.60	25.21
16	16	18.5	13.60	13.60	27.21
18	18	20.5	14.60	14.60	29.21
20	20	22.5	15.60	15.60	31.21
22	22	24.5	16.60	16.60	33.21
24	24	26.5	17.60	17.60	35.21
26	26	28.5	18.60	18.60	37.21
28	28	30.5	19.60	19.60	39.21
30	30	32.5	20.60	20.60	41.21
32	32	34.5	21.60	21.60	43.21
34	34	36.5	22.60	22.60	45.21
36	36	38.5	23.60	23.60	47.21



\* Installed length

## 90° Reduction Tee / DWKLØ-90TØ

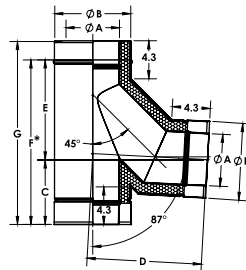
Ø	ØA	ØB	ØC	ØD	E
3	3	5.5			7.0
4	4	6.5			7.5
5	5	7.5			8.0
6	6	8.5			8.5
7	7	9.5			9.0
8	8	10.5			9.5
9	9	11.5			10.0
10	10	12.5			10.5
11	11	13.5			11.0
12	12	14.5			11.5
13	13	15.5			12.0
14	14	16.5			12.5
16	16	18.5			13.5
18	18	20.5			14.5
20	20	22.5			15.5
22	22	24.5			16.5
24	24	26.5			17.5
26	26	28.5			18.5
28	28	30.5			19.5
30	30	32.5			20.5
32	32	34.5			21.5
34	34	36.5			22.5
36	36	38.5			23.5



\* Installed length

## 87° Boot Tee / DWKLØ-87BT

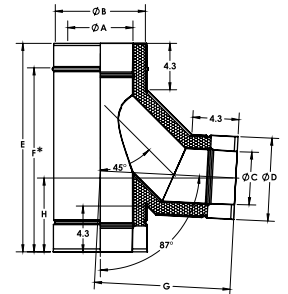
Ø	ØA	ØB	C	D	E	F	G
3	3	5.5	5.83	10.11	8.19	14.0	16.2
4	4	6.5	6.31	11.01	9.12	15.5	17.7
5	5	7.5	6.79	11.92	10.06	16.9	19.1
6	6	8.5	7.27	12.84	11.00	18.3	20.5
7	7	9.5	7.75	13.75	11.92	19.7	21.9
8	8	10.5	8.23	14.66	12.86	21.1	23.3
9	9	11.5	8.71	15.57	13.80	22.5	24.7
10	10	12.5	9.19	16.48	14.73	23.9	26.1
11	11	13.5	9.67	17.39	15.67	23.9	26.1
12	12	14.5	10.15	18.30	16.60	26.8	29.0
13	13	15.5	9.19	16.48	14.73	23.9	26.1
14	14	16.5	11.10	20.12	18.47	29.6	31.8
16	16	18.5	12.06	21.94	20.34	32.4	34.6
18	18	20.5	13.02	23.76	22.21	35.3	37.5
20	20	22.5	13.98	25.58	24.08	37.1	40.3
22	22	24.5	14.94	27.41	25.95	39.9	43.1
24	24	26.5	25.89	29.23	27.82	43.7	45.9
26	26	28.5	25.9	31.45	29.56	45.8	47.4
28	28	30.5	28.36	33.54	31.45	47.9	50.1
30	30	32.5	31.47	35.62	33.56	49.7	52.7
32	32	34.5	33.56	37.48	35.47	51.7	54.9
34	34	36.5	35.47	39.42	37.45	53.8	56.8
36	36	38.5	38.12	41.65	39.59	55.9	59.1



\* Installed length

## 87° Boot Reduction Tee / DWKLØ-87BTØ

Ø	ØA	ØB	ØC	ØD	E	F	G
3	3	5.5					
4	4	6.5					
5	5	7.5					
6	6	8.5					
7	7	9.5					
8	8	10.5					
9	9	11.5					
10	10	12.5					
11	11	13.5					
12	12	14.5					
13	13	15.5					
14	14	16.5					
16	16	18.5					
18	18	20.5					
20	20	22.5					
22	22	24.5					
24	24	26.5					
26	26	28.5					
28	28	30.5					
30	30	32.5					
32	32	34.5					
34	34	36.5					
36	36	38.5					

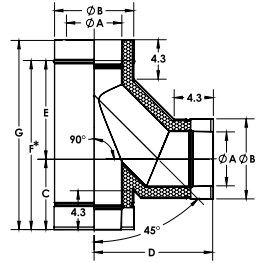


\* Installed length

# TEES

## 90° Boot Tee / DWKLØ-90BT

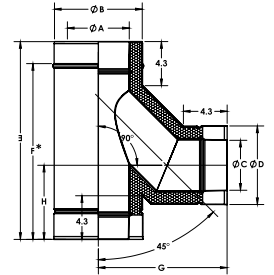
Ø	ØA	ØB	ØC	D	E	F	G
3	3	5.5	6.17	10.12	7.85	14.0	16.2
4	4	6.5	6.75	11.04	8.76	15.5	17.7
5	5	7.5	7.17	11.95	9.68	16.9	19.1
6	6	8.5	7.67	12.86	10.59	18.3	20.5
7	7	9.5	8.17	13.78	11.51	19.7	21.9
8	8	10.5	8.67	14.69	12.42	21.1	23.3
9	9	11.5	9.17	15.61	13.33	22.5	24.7
10	10	12.5	9.67	16.52	14.25	23.9	26.1
11	11	13.5	9.67	16.52	14.25	23.9	26.1
12	12	14.5	10.67	18.35	16.08	26.8	29.0
13	13	15.5	9.67	16.52	14.25	23.9	26.1
14	14	16.5	11.67	20.18	17.91	29.6	31.8
16	16	18.5	12.67	22.01	19.73	32.4	34.6
18	18	20.5	13.67	23.83	21.56	35.2	37.4
20	20	22.5	14.67	25.66	23.39	38.1	40.3
22	22	24.5	15.67	27.49	25.22	40.9	43.1
24	24	26.5	16.67	29.32	27.05	43.7	45.9
26	26	28.5	17.67	31.15	28.88	46.5	48.7
28	28	30.5	18.67	32.98	30.71	49.3	51.5
30	30	32.5	19.67	34.81	32.54	52.1	54.3
32	32	34.5	20.67	36.64	34.37	54.9	57.1
34	34	36.5	21.67	38.47	36.20	57.7	59.9
36	36	38.5	22.67	40.30	38.03	60.5	62.7



\* Installed length

## 90° Boot Reduction Tee / DWKLØ-90BTØ

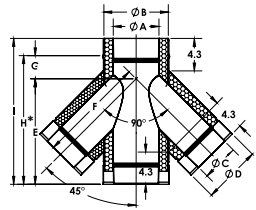
Ø	ØA	ØB	ØC	ØD	E	F	G	H
3	3	5.5						
4	4	6.5						
5	5	7.5						
6	6	8.5						
7	7	9.5						
8	8	10.5						
9	9	11.5						
10	10	12.5						
11	11	13.5						
12	12	14.5						
13	13	15.5						
14	14	16.5						
16	16	18.5						
18	18	20.5						
20	20	22.5						
22	22	24.5						
24	24	26.5						
26	26	28.5						
28	28	30.5						
30	30	32.5						
32	32	34.5						
34	34	36.5						
36	36	38.5						



\* Installed length

## 45° Double Tee / DWKLØ-45DT

Ø	ØA	ØB	ØC	ØD	E	F	G	H	I
3	3	5.5							
4	4	6.5							
5	5	7.5							
6	6	8.5							
7	7	9.5							
8	8	10.5							
9	9	11.5							
10	10	12.5							
11	11	13.5							
12	12	14.5							
13	13	15.5							
14	14	16.5							
16	16	18.5							
18	18	20.5							
20	20	22.5							
22	22	24.5							
24	24	26.5							
26	26	28.5							
28	28	30.5							
30	30	32.5							
32	32	34.5							
34	34	36.5							
36	36	38.5							

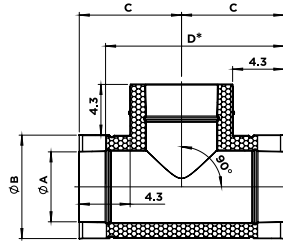


\* Installed length

# GREASE TEES

## 90° Grease Duct Tee / DWKLØ-90GT

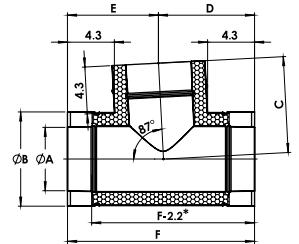
Ø	ØA	ØB	C
3	3	5.5	7.15
4	4	6.5	7.65
5	5	7.5	8.15
6	6	8.5	8.65
7	7	9.5	9.15
8	8	10.5	9.65
9	9	11.5	10.15
10	10	12.5	10.65
11	11	13.5	11.15
12	12	14.5	11.65
13	13	15.5	12.15
14	14	16.5	12.65
16	16	18.5	13.65
18	18	20.5	14.65
20	20	22.5	15.65
22	22	24.5	16.65
24	24	26.5	17.65
26	26	28.5	18.65
28	28	30.5	19.65
30	30	32.5	20.65
32	32	34.5	21.65
34	34	36.5	22.65
36	36	38.5	23.65



\* Installed length

## 87° Grease Duct Tee / DWKLØ-87GT

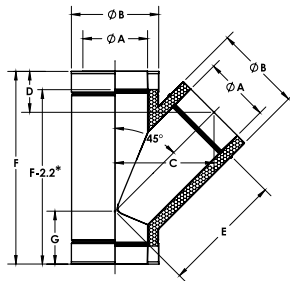
Ø	ØA	ØB	C	D	E	F
3	3	5.5	7.9	7.4	6.9	14.3
4	4	6.5	7.8	7.0	7.4	15.3
5	5	7.5	8.3	8.4	7.9	16.3
6	6	8.5	8.9	8.9	8.4	17.3
7	7	9.5	9.4	9.4	8.9	18.3
8	8	10.5	9.9	9.9	9.4	19.3
9	9	11.5	10.5	10.4	9.9	20.3
10	10	12.5	11.0	10.9	10.4	21.3
11	11	13.5	11.5	11.4	10.9	22.3
12	12	14.5	12.0	11.9	11.4	23.3
13	13	15.5	12.6	12.4	11.9	24.3
14	14	16.5	13.1	12.9	12.4	25.3
16	16	18.5	14.1	13.9	13.4	26.3
18	18	20.5	15.2	14.9	14.4	29.9
20	20	22.5	16.2	15.9	15.4	31.3
22	22	24.5	17.3	16.9	16.4	33.3
24	24	26.5	18.4	17.9	17.4	35.3
26	26	28.5	19.4	18.9	18.4	37.3
28	28	30.5	20.5	19.9	19.4	39.3
30	30	32.5	21.5	20.9	20.4	41.3
32	32	34.5	22.6	21.9	21.4	43.3
34	34	36.5	23.6	22.9	22.4	45.3
36	36	38.5	24.7	23.9	23.4	47.3



\* Installed length

## 45° Grease Duct Tee / DWKLØ-45GT

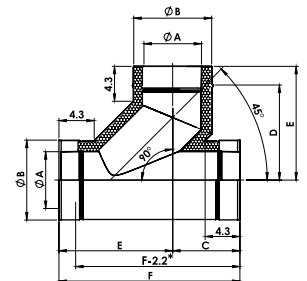
Ø	ØA	ØB	C	D	E	F	G
3	3	5.5	7.7	3.2	8.7	16.4	5.4
4	4	6.5	8.6	3.5	9.9	17.8	5.6
5	5	7.5	9.5	3.9	11.1	19.2	5.8
6	6	8.5	10.3	4.3	12.3	20.6	6.0
7	7	9.5	11.2	4.6	13.5	22.1	6.2
8	8	10.5	12.0	5.0	14.8	23.5	6.4
9	9	11.5	12.9	5.3	16.0	24.9	6.6
10	10	12.5	13.7	5.7	17.2	26.3	6.8
11	11	13.5	14.6	6.0	18.4	27.5	7.0
12	12	14.5	15.4	6.4	19.6	29.1	7.2
13	13	15.5	16.3	6.7	20.8	30.5	7.4
14	14	16.5	17.1	7.1	22.0	32.0	7.6
16	16	18.5	18.8	7.8	24.4	34.8	8.1
18	18	20.5	20.6	8.5	26.8	37.6	8.5
20	20	22.5	22.3	9.2	29.2	40.5	8.9
22	22	24.5	24.0	9.9	31.6	43.3	9.3
24	24	26.5	25.7	10.6	34.1	46.1	9.7
26	26	28.5	27.4	11.3	36.6	48.9	10.1
28	28	30.5	29.1	12	39.1	51.7	10.5
30	30	32.5	30.8	12.7	41.6	54.5	10.9
32	32	34.5	32.5	13.4	44.1	57.5	11.3
34	34	36.5	34.2	14.1	46.6	60.1	11.7
36	36	38.5	35.9	14.8	49.1	62.9	12.4



\* Installed length

## 90° Grease Duct Boot Tee / DWKLØ-90GBT

Ø	ØA	ØB	C	D	E	F
3	3	5.5	6.2	8.0	10.2	16.4
4	4	6.5	6.7	8.9	11.1	17.8
5	5	7.5	7.2	9.8	12.0	19.2
6	6	8.5	7.7	10.7	12.9	20.6
7	7	9.5	8.2	11.6	13.8	22.0
8	8	10.5	8.7	12.5	14.7	23.4
9	9	11.5	9.2	13.5	15.7	24.8
10	10	12.5	9.7	14.4	16.6	26.3
11	11	13.5	10.2	15.3	17.5	27.7
12	12	14.5	10.7	16.2	18.4	29.1
13	13	15.5	11.2	17.1	19.3	30.5
14	14	16.5	11.7	18.0	20.2	31.9
16	16	18.5	12.7	19.9	22.1	34.7
18	18	20.5	13.7	21.7	23.9	37.6
20	20	22.5	14.7	23.5	25.7	40.4
22	22	24.5	15.7	25.3	27.5	43.2
24	24	26.5	16.7	27.2	29.4	46.1
26	26	28.5	17.7	29.5	31.4	49.8
28	28	30.5	18.7	31.4	33.5	52.9
30	30	32.5	19.7	33.5	35.6	55.7
32	32	34.5	20.7	35.4	37.4	58.7
34	34	36.5	21.7	37.4	39.4	61.8
36	36	38.5	22.7	39.5	41.6	64.9

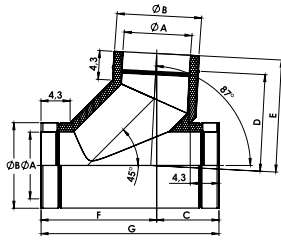


\* Installed length

# GREASE TEES

## 87° Grease Duct Boot tee / DWKLØ-87GBT

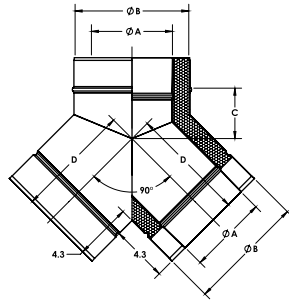
Ø	ØA	ØB	C	D	E	F	G
3	3	5.5	5.9	7.9	10.1	10.4	16.3
4	4	6.5	6.4	8.9	11.1	11.3	17.7
5	5	7.5	6.8	9.8	12.0	12.4	19.2
6	6	8.5	7.3	10.7	12.9	13.3	20.6
7	7	9.5	7.8	11.6	13.8	14.2	22.0
8	8	10.5	8.3	12.5	14.7	15.1	23.4
9	9	11.5	8.8	13.4	15.6	16.0	24.8
10	10	12.5	9.2	14.3	16.5	17.0	26.2
11	11	13.5	9.7	15.2	17.4	17.9	27.6
12	12	14.5	10.2	16.1	18.3	18.9	29.1
13	13	15.5	10.7	17.0	19.2	19.8	30.5
14	14	16.5	11.1	18.0	20.2	20.8	31.9
16	16	18.5	12.1	19.8	22.0	22.6	34.7
18	18	20.5	13.1	21.6	23.8	24.4	37.5
20	20	22.5	14.0	23.4	25.6	26.4	40.4
22	22	24.5	15.0	25.2	27.4	28.2	43.2
24	24	26.5	15.9	27.1	29.3	30.1	46.0
26	26	28.5	17.9	29.5	31.4	33.5	47.4
28	28	30.5	18.1	31.4	33.5	35.4	50.1
30	30	32.5	19.0	33.5	35.6	38.1	52.7
32	32	34.5	20.0	35.4	37.4	41.7	54.9
34	34	36.5	21.1	37.4	39.4	43.8	56.8
36	36	38.5	22.1	39.5	41.6	45.9	59.1



# WYE TEES

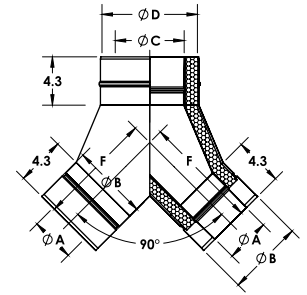
## 90° Wye Tee / DWKLØ-90WT

Ø	ØA	ØB	C	D
3	3	5.5	3.12	7.03
4	4	6.5	3.33	7.53
5	5	7.5	3.54	8.03
6	6	8.5	3.74	8.53
7	7	9.5	3.95	9.03
8	8	10.5	4.16	9.53
9	9	11.5	4.36	10.03
10	10	12.5	4.57	10.53
11	11	13.5	4.78	11.03
12	12	14.5	4.99	11.53
13	13	15.5	5.19	12.03
14	14	16.5	5.40	12.53
16	16	18.5	5.81	13.53
18	18	20.5	6.23	14.53
20	20	22.5	6.64	15.53
22	22	24.5	7.06	16.53
24	24	26.5	7.47	17.53
26	26	28.5	7.88	18.53
28	28	30.5	8.29	19.53
30	30	32.5	8.7	20.53
32	32	34.5	9.12	21.53
34	34	36.5	9.53	22.53
36	36	38.5	9.94	23.53



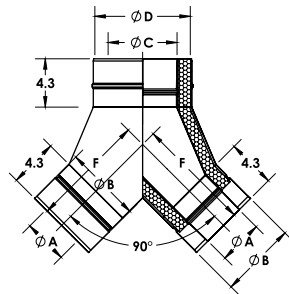
## 90° Reduction Wye Tee / DWKLØ-90WTØ

Ø	ØA	ØB
3	3	5.5
4	4	6.5
5	5	7.5
6	6	8.5
7	7	9.5
8	8	10.5
9	9	11.5
10	10	12.5
11	11	13.5
12	12	14.5
13	13	15.5
14	14	16.5
16	16	18.5
18	18	20.5
20	20	22.5
22	22	24.5
24	24	26.5
26	26	28.5
28	28	30.5
30	30	32.5
32	32	34.5
34	34	36.5
36	36	38.5



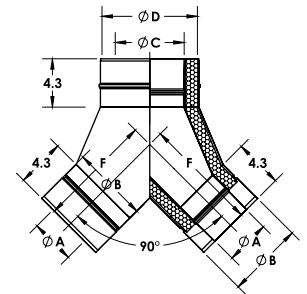
## 90° Reduction Wye Tee / DWKLØ-90WTØ Type 1

Ø	ØC	ØD	E
4	4	6.5	8.29
5	5	7.5	8.79
6	6	8.5	9.16
7	7	9.5	9.79
8	8	10.5	10.29
9	9	11.5	10.79
10	10	12.5	11.30
11	11	13.5	11.79
12	12	14.5	12.29
13	13	15.5	12.79
14	14	16.5	13.29
16	16	18.5	12.59
18	18	20.5	13.59
20	20	22.5	14.59
22	22	24.5	15.59
24	24	26.5	16.59
26	26	28.5	17.59
28	28	30.5	18.59
30	30	32.5	19.59
32	32	34.5	20.59
34	34	36.5	21.59
36	36	38.5	22.59



## 90° Reduction Wye Tee / DWKLØ-90WTØ Type 2

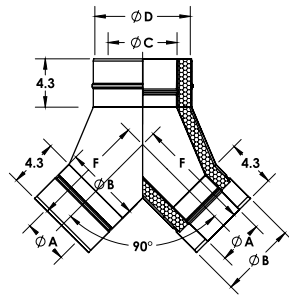
Ø	ØC	ØD	E
5	5	7.5	7.08
6	6	8.5	7.48
7	7	9.5	7.97
8	8	10.5	8.58
9	9	11.5	9.08
10	10	12.5	9.58
11	11	13.5	10.08
12	12	14.5	10.58
13	13	15.5	11.08
14	14	16.5	11.58
16	16	18.5	10.87
18	18	20.5	10.17
20	20	22.5	11.17
22	22	24.5	12.17
24	24	26.5	13.17
26	26	28.5	14.17
28	28	30.5	15.17
30	30	32.5	16.17
32	32	34.5	17.17
34	34	36.5	18.17
36	36	38.5	19.17



# WYE TEES

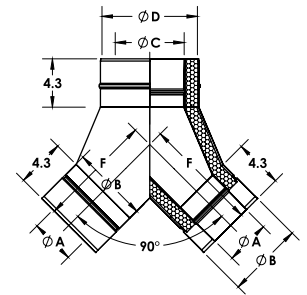
## 90° Reduction Wye Tee / DWKLØ-90WTØ Type 3

Ø	ØC	ØD	E
6	6	8.5	5.81
7	7	9.5	6.30
8	8	10.5	6.79
9	9	11.5	7.37
10	10	12.5	7.87
11	11	13.5	8.37
12	12	14.5	8.88
13	13	15.5	9.37
14	14	16.5	9.87
16	16	18.5	9.17
18	18	20.5	8.46
20	20	22.5	7.75
22	22	24.5	8.75
24	24	26.5	9.75
26	26	28.5	10.75
28	28	30.5	11.75
30	30	32.5	12.75
32	32	34.5	13.75
34	34	36.5	14.75
36	36	38.5	15.75



## 90° Reduction Wye Tee / DWKLØ-90WTØ Type 4

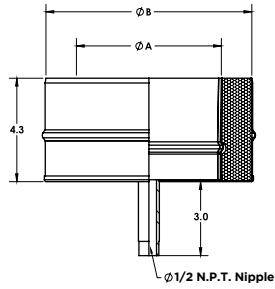
Ø	ØC	ØD	E	F
7	7	9.5	4.62	9.50
8	8	10.5	5.11	10.00
9	9	11.5	5.60	10.50
10	10	12.5	6.17	11.00
11	11	13.5	6.67	11.50
12	12	14.5	7.17	12.00
13	13	15.5	7.67	12.50
14	14	16.5	8.17	13.00
16	16	18.5	7.46	13.50
18	18	20.5	6.75	14.00
20	20	22.5	6.05	14.50
22	22	24.5	5.34	15.00
24	24	26.5	6.34	16.00
26	26	28.5	7.34	17.00
28	28	30.5	8.34	18.00
30	30	32.5	9.34	19.00
32	32	34.5	10.34	20.00
34	34	36.5	11.34	21.00
36	36	38.5	12.34	22.00



# TEE CAPS

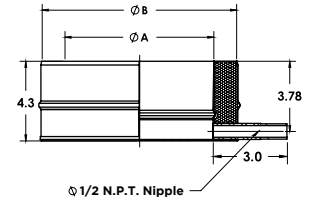
## Drain Tee Cap - Bottom / DWKLØ-DCB

Ø	ØA	ØB
3	3	5.5
4	4	6.5
5	5	7.5
6	6	8.5
7	7	9.5
8	8	10.5
9	9	11.5
10	10	12.5
11	11	13.5
12	12	14.5
13	13	15.5
14	14	16.5
16	16	18.5
18	18	20.5
20	20	22.5
22	22	24.5
24	24	26.5
26	26	28.5
28	28	30.5
30	30	32.5
32	32	34.5
34	34	36.5
36	36	38.5



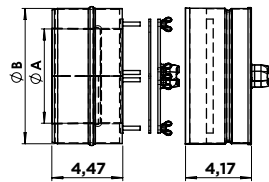
## Drain Tee Cap - Side / DWKLØ-DCS

Ø	ØA	ØB
3	3	5.5
4	4	6.5
5	5	7.5
6	6	8.5
7	7	9.5
8	8	10.5
9	9	11.5
10	10	12.5
11	11	13.5
12	12	14.5
13	13	15.5
14	14	16.5
16	16	18.5
18	18	20.5
20	20	22.5
22	22	24.5
24	24	26.5
26	26	28.5
28	28	30.5
30	30	32.5
32	32	34.5
34	34	36.5
36	36	38.5



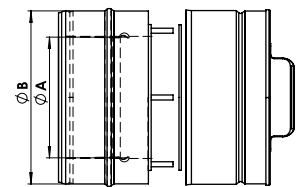
## Tee Cap Access / DWKLØ-TCA

Ø	ØA	ØB
3	3	5.5
4	4	6.5
5	5	7.5
6	6	8.5
7	7	9.5
8	8	10.5
9	9	11.5
10	10	12.5
11	11	13.5
12	12	14.5
13	13	15.5
14	14	16.5
16	16	18.5
18	18	20.5
20	20	22.5
22	22	24.5
24	24	26.5
26	26	28.5
28	28	30.5
30	30	32.5
32	32	34.5
34	34	36.5
36	36	38.5



## Grease Tee Cap Access / DWKLØ-GTCA

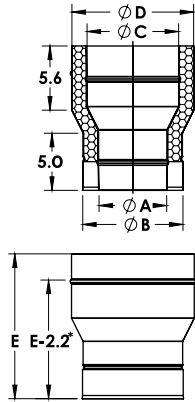
Ø	ØA	ØB
3	3	5.5
4	4	6.5
5	5	7.5
6	6	8.5
7	7	9.5
8	8	10.5
9	9	11.5
10	10	12.5
11	11	13.5
12	12	14.5
13	13	15.5
14	14	16.5
16	16	18.5
18	18	20.5
20	20	22.5
22	22	24.5
24	24	26.5
26	26	28.5
28	28	30.5
30	30	32.5
32	32	34.5
34	34	36.5
36	36	38.5



# INCREASERS

Tapered Increaser / DWKLØ-TIØ Increase to next standard Ø

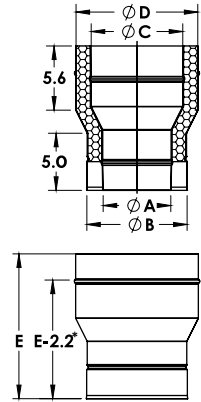
Ø	ØA	ØB	ØC	ØD	E
3	3	5.5	4	6.5	12.5
4	4	6.5	5	7.5	
5	5	7.5	6	8.5	
6	6	8.5	7	9.5	
7	7	9.5	8	10.5	
8	8	10.5	9	11.5	
9	9	11.5	10	12.5	
10	10	12.5	11	13.5	
11	11	13.5	12	14.5	
12	12	14.5	13	15.5	
13	13	15.5	14	16.5	
14	14	16.5	16	18.5	
16	16	18.5	18	20.5	
18	18	20.5	20	22.5	
20	20	22.5	22	24.5	
22	22	24.5	24	26.5	
24	24	26.5	26	28.5	
26	26	28.5	28	30.5	
28	28	30.5	30	32.5	
30	30	32.5	32	34.5	
32	32	34.5	34	36.5	
34	34	36.5	36	38.5	
36	36	38.5			



\* Installed length

Tapered Increaser / DWKLØ-TIØ Two standard Ø increase

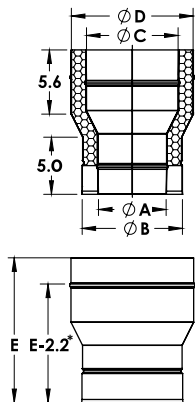
Ø	ØA	ØB	ØC	ØD	E
3	3	5.5	5	7.5	12.5
4	4	6.5	6	8.5	
5	5	7.5	7	9.5	
6	6	8.5	8	10.5	
7	7	9.5	9	11.5	
8	8	10.5	10	12.5	
9	9	11.5	11	13.5	
10	10	12.5	12	14.5	
11	11	13.5	13	15.5	
12	12	14.5	14	16.5	
13	13	15.5	16	18.5	
14	14	16.5	18	20.5	
16	16	18.5	20	22.5	
18	18	20.5	22	24.5	
20	20	22.5	24	26.5	
22	22	24.5	26	28.5	
24	24	26.5	28	30.5	
26	26	28.5	30	32.5	
28	28	30.5	32	34.5	
30	30	32.5	34	36.5	
32	32	34.5	36	38.5	
34	34	36.5			
36	36	38.5			



\* Installed length

Tapered Increaser / DWKLØ-TIØ Three standard Ø increase

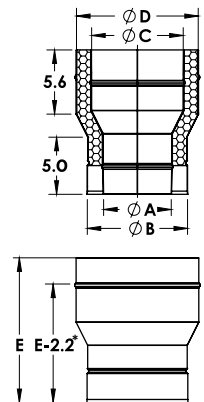
Ø	ØA	ØB	ØC	ØD	E
3	3	5.5	6	8.5	12.5
4	4	6.5	7	9.5	
5	5	7.5	8	10.5	
6	6	8.5	9	11.5	
7	7	9.5	10	12.5	
8	8	10.5	11	13.5	
9	9	11.5	12	14.5	
10	10	12.5	13	15.5	
11	11	13.5	14	16.5	
12	12	14.5	16	18.5	
13	13	15.5	18	20.5	
14	14	16.5	20	22.5	
16	16	18.5	22	24.5	
18	18	20.5	24	26.5	
20	20	22.5	26	28.5	
22	22	24.5	28	30.5	
24	24	26.5	30	32.5	
26	26	28.5	32	34.5	
28	28	30.5	34	36.5	
30	30	32.5	36	38.5	
32	32	34.5			
34	34	36.5			
36	36	38.5			



\* Installed length

Tapered Increaser / DWKLØ-TIØ Four standard Ø increase

Ø	ØA	ØB	ØC	ØD	E
3	3	5.5	7	9.5	12.5
4	4	6.5	8	10.5	
5	5	7.5	9	11.5	
6	6	8.5	10	12.5	
7	7	9.5	11	13.5	
8	8	10.5	12	14.5	
9	9	11.5	13	15.5	
10	10	12.5	14	16.5	
11	11	13.5	16	18.5	
12	12	14.5	18	20.5	
13	13	15.5	20	22.5	
14	14	16.5	22	24.5	
16	16	18.5	24	26.5	
18	18	20.5	26	28.5	
20	20	22.5	28	30.5	
22	22	24.5	30	32.5	
24	24	26.5	32	34.5	
26	26	28.5	34	36.5	
28	28	30.5	36	38.5	
30	30	32.5			
32	32	34.5			
34	34	36.5			
36	36	38.5			



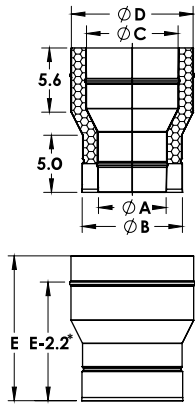
\* Installed length



# INCREASERS

**Tapered Increaser / DWKLØ-TIØ Five standard Ø increase**

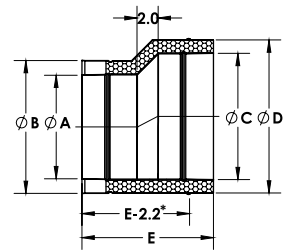
Ø	ØA	ØB	ØC	ØD	E
3	3	5.5	8	10.5	12.5
4	4	6.5	9	11.5	
5	5	7.5	10	12.5	
6	6	8.5	11	13.5	
7	7	9.5	12	14.5	
8	8	10.5	13	15.5	
9	9	11.5	14	16.5	
10	10	12.5	16	18.5	
11	11	13.5	18	20.5	
12	12	14.5	20	22.5	
13	13	15.5	22	24.5	
14	14	16.5	24	26.5	
16	16	18.5	26	28.5	
18	18	20.5	28	30.5	
20	20	22.5	30	32.5	
22	22	24.5	32	34.5	
24	24	26.5	34	36.5	
26	26	28.5	36	38.5	
28	28	30.5			
30	30	32.5			
32	32	34.5			
34	34	36.5			
36	36	38.5			



\* Installed length

**Tapered Eccentric Increaser / DWKLØ-TEIØ**

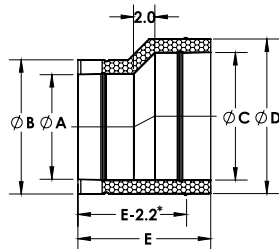
Ø	ØA	ØB	E
3	3	5.5	12.5
4	4	6.5	
5	5	7.5	
6	6	8.5	
7	7	9.5	
8	8	10.5	
9	9	11.5	
10	10	12.5	
11	11	13.5	
12	12	14.5	
13	13	15.5	
14	14	16.5	
16	16	18.5	
18	18	20.5	
20	20	22.5	
22	22	24.5	
24	24	26.5	
26	26	28.5	
28	28	30.5	
30	30	32.5	
32	32	34.5	
34	34	36.5	
36	36	38.5	



\* Installed length

**Tapered Eccentric Increaser / DWKLØ-TEIØ Increase to next standard Ø**

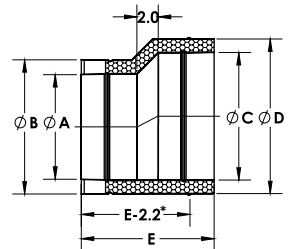
Ø	ØC	ØD	E
4	4	6.5	12.5
5	5	7.5	
6	6	8.5	
7	7	9.5	
8	8	10.5	
9	9	11.5	
10	10	12.5	
11	11	13.5	
12	12	14.5	
13	13	15.5	
14	14	16.5	
16	16	18.5	
18	18	20.5	
20	20	22.5	
22	22	24.5	
24	24	26.5	
26	26	28.5	
28	28	30.5	
30	30	32.5	
32	32	34.5	
34	34	36.5	
36	36	38.5	



\* Installed length

**Tapered Eccentric Increaser / DWKLØ-TEIØ Two standard Ø increase**

Ø	ØC	ØD	E
5	5	7.5	12.5
6	6	8.5	
7	7	9.5	
8	8	10.5	
9	9	11.5	
10	10	12.5	
11	11	13.5	
12	12	14.5	
13	13	15.5	
14	14	16.5	
16	16	18.5	
18	18	20.5	
20	20	22.5	
22	22	24.5	
24	24	26.5	
26	26	28.5	
28	28	30.5	
30	30	32.5	
32	32	34.5	
34	34	36.5	
36	36	38.5	

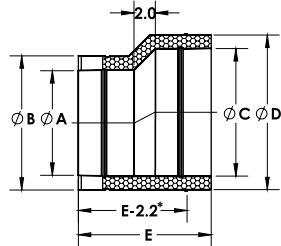


\* Installed length

# INCREASERS

Tapered Eccentric Increaser / DWKLØ-TEIØ Three standard Ø increase

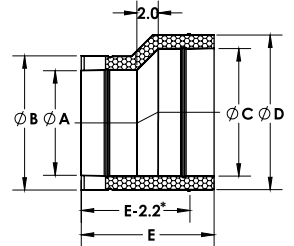
Ø	ØC	ØD	E
6	6	8.5	12.5
7	7	9.5	
8	8	10.5	
9	9	11.5	
10	10	12.5	
11	11	13.5	
12	12	14.5	
13	13	15.5	
14	14	16.5	
16	16	18.5	
18	18	20.5	
20	20	22.5	
22	22	24.5	
24	24	26.5	
26	26	28.5	
28	28	30.5	
30	30	32.5	
32	32	34.5	
34	34	36.5	
36	36	38.5	



\* Installed length

Tapered Eccentric Increaser / DWKLØ-TEIØ Four standard Ø increase

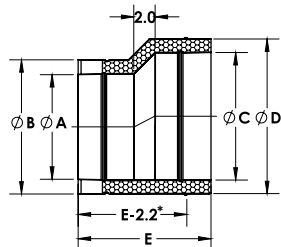
Ø	ØC	ØD	E
7	7	9.5	12.5
8	8	10.5	
9	9	11.5	
10	10	12.5	
11	11	13.5	
12	12	14.5	
13	13	15.5	
14	14	16.5	
16	16	18.5	
18	18	20.5	
20	20	22.5	
22	22	24.5	
24	24	26.5	
26	26	28.5	
28	28	30.5	
30	30	32.5	
32	32	34.5	
34	34	36.5	
36	36	38.5	



\* Installed length

Tapered Eccentric Increaser / DWKLØ-TEIØ Five standard Ø increase

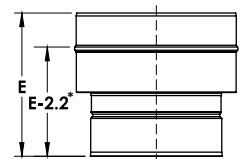
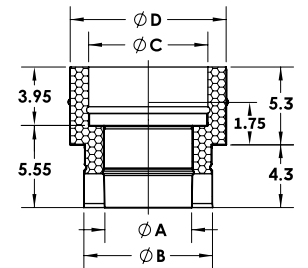
Ø	ØC	ØD	E
8	8	10.5	12.5
9	9	11.5	
10	10	12.5	
11	11	13.5	
12	12	14.5	
13	13	15.5	
14	14	16.5	
16	16	18.5	
18	18	20.5	
20	20	22.5	
22	22	24.5	
24	24	26.5	
26	26	28.5	
28	28	30.5	
30	30	32.5	
32	32	34.5	
34	34	36.5	
36	36	38.5	



\* Installed length

Stepped Increaser / DWKLØ-SIØ

Ø	ØA	ØB	E
3	3	5.5	9.5
4	4	6.5	
5	5	7.5	
6	6	8.5	
7	7	9.5	
8	8	10.5	
9	9	11.5	
10	10	12.5	
11	11	13.5	
12	12	14.5	
13	13	15.5	
14	14	16.5	
16	16	18.5	
18	18	20.5	
20	20	22.5	
22	22	24.5	
24	24	26.5	
26	26	28.5	
28	28	30.5	
30	30	32.5	
32	32	34.5	
34	34	36.5	
36	36	38.5	

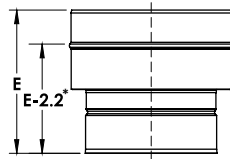
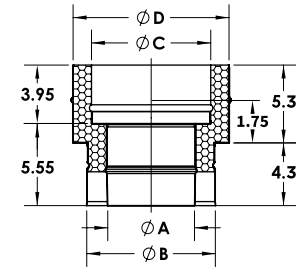


\* Installed length

# INCREASERS

## Stepped Inserter / DWKLØ-SIØ Increase to next standard Ø

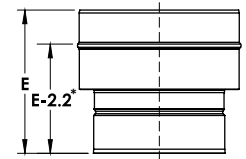
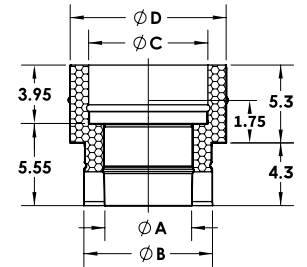
Ø	ØC	ØD	E
4	4	6.5	9.5
5	5	7.5	
6	6	8.5	
7	7	9.5	
8	8	10.5	
9	9	11.5	
10	10	12.5	
11	11	13.5	
12	12	14.5	
13	13	15.5	
14	14	16.5	
16	16	18.5	
18	18	20.5	
20	20	22.5	
22	22	24.5	
24	24	26.5	
26	26	28.5	
28	28	30.5	
30	30	32.5	
32	32	34.5	
34	34	36.5	
36	36	38.5	



\* Installed length

## Stepped Inserter / DWKLØ-SIØ Two standard Ø Increase

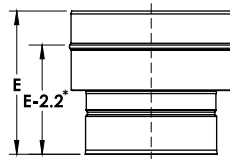
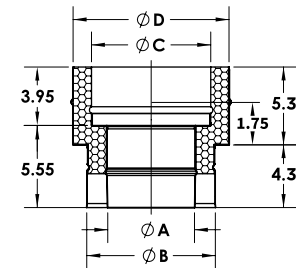
Ø	ØC	ØD	E
5	5	7.5	9.5
6	6	8.5	
7	7	9.5	
8	8	10.5	
9	9	11.5	
10	10	12.5	
11	11	13.5	
12	12	14.5	
13	13	15.5	
14	14	16.5	
16	16	18.5	
18	18	20.5	
20	20	22.5	
22	22	24.5	
24	24	26.5	
26	26	28.5	
28	28	30.5	
30	30	32.5	
32	32	34.5	
34	34	36.5	
36	36	38.5	



\* Installed length

## Stepped Inserter / DWKLØ-SIØ Three standard Ø Increase

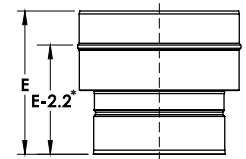
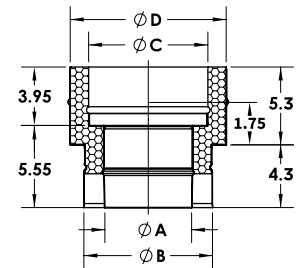
Ø	ØC	ØD	E
6	6	8.5	9.5
7	7	9.5	
8	8	10.5	
9	9	11.5	
10	10	12.5	
11	11	13.5	
12	12	14.5	
13	13	15.5	
14	14	16.5	
16	16	18.5	
18	18	20.5	
20	20	22.5	
22	22	24.5	
24	24	26.5	
26	26	28.5	
28	28	30.5	
30	30	32.5	
32	32	34.5	
34	34	36.5	
36	36	38.5	



\* Installed length

## Stepped Inserter / DWKLØ-SIØ Four standard Ø Increase

Ø	ØC	ØD	E
7	7	9.5	9.5
8	8	10.5	
9	9	11.5	
10	10	12.5	
11	11	13.5	
12	12	14.5	
13	13	15.5	
14	14	16.5	
16	16	18.5	
18	18	20.5	
20	20	22.5	
22	22	24.5	
24	24	26.5	
26	26	28.5	
28	28	30.5	
30	30	32.5	
32	32	34.5	
34	34	36.5	
36	36	38.5	

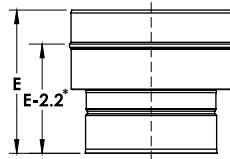
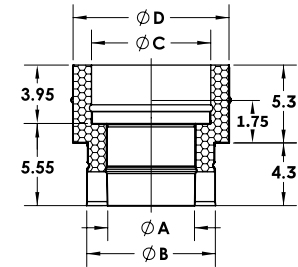


\* Installed length

# INCREASERS

## Stepped Inserter / DWKLØ-SIØ Five standard Ø Increase

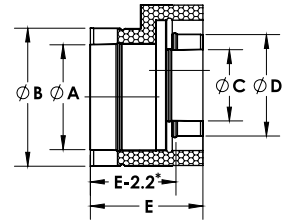
Ø	ØC	ØD	E
8	8	10.5	9.5
9	9	11.5	
10	10	12.5	
11	11	13.5	
12	12	14.5	
13	13	15.5	
14	14	16.5	
16	16	18.5	
18	18	20.5	
20	20	22.5	
22	22	24.5	
24	24	26.5	
26	26	28.5	
28	28	30.5	
30	30	32.5	
32	32	34.5	
34	34	36.5	
36	36	38.5	



\* Installed length

## Stepped Eccentric Inserter / DWKLØ-SEIØ

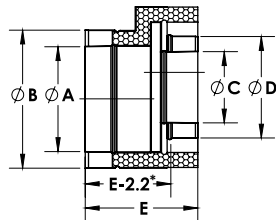
Ø	ØA	ØB	E
3	3	5.5	9.5
4	4	6.5	
5	5	7.5	
6	6	8.5	
7	7	9.5	
8	8	10.5	
9	9	11.5	
10	10	12.5	
11	11	13.5	
12	12	14.5	
13	13	15.5	
14	14	16.5	
16	16	18.5	
18	18	20.5	
20	20	22.5	
22	22	24.5	
24	24	26.5	
26	26	28.5	
28	28	30.5	
30	30	32.5	
32	32	34.5	
34	34	36.5	
36	36	38.5	



\* Installed length

## Stepped Eccentric Inserter / DWKLØ-SEIØ Type 1

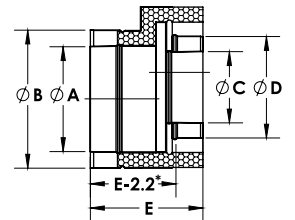
Ø	ØC	ØD	E
4	4	6.5	9.5
5	5	7.5	
6	6	8.5	
7	7	9.5	
8	8	10.5	
9	9	11.5	
10	10	12.5	
11	11	13.5	
12	12	14.5	
13	13	15.5	
14	14	16.5	
16	16	18.5	
18	18	20.5	
20	20	22.5	
22	22	24.5	
24	24	26.5	
26	26	28.5	
28	28	30.5	
30	30	32.5	
32	32	34.5	
34	34	36.5	
36	36	38.5	



\* Installed length

## Stepped Eccentric Inserter / DWKLØ-SEIØ Type 2

Ø	ØC	ØD	E
5	5	7.5	9.5
6	6	8.5	
7	7	9.5	
8	8	10.5	
9	9	11.5	
10	10	12.5	
11	11	13.5	
12	12	14.5	
13	13	15.5	
14	14	16.5	
16	16	18.5	
18	18	20.5	
20	20	22.5	
22	22	24.5	
24	24	26.5	
26	26	28.5	
28	28	30.5	
30	30	32.5	
32	32	34.5	
34	34	36.5	
36	36	38.5	

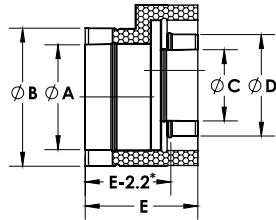


\* Installed length

# INCREASER

## Stepped Eccentric Increaser / DWKLØ-SEIØ Type 3

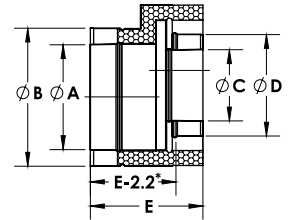
Ø	ØC	ØD	E
6	6	8.5	9.5
7	7	9.5	
8	8	10.5	
9	9	11.5	
10	10	12.5	
11	11	13.5	
12	12	14.5	
13	13	15.5	
14	14	16.5	
16	16	18.5	
18	18	20.5	
20	20	22.5	
22	22	24.5	
24	24	26.5	
26	26	28.5	
28	28	30.5	
30	30	32.5	
32	32	34.5	
34	34	36.5	
36	36	38.5	



\* Installed length

## Stepped Eccentric Increaser / DWKLØ-SEIØ Type 4

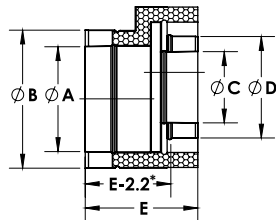
Ø	ØC	ØD	E
7	7	9.5	9.5
8	8	10.5	
9	9	11.5	
10	10	12.5	
11	11	13.5	
12	12	14.5	
13	13	15.5	
14	14	16.5	
16	16	18.5	
18	18	20.5	
20	20	22.5	
22	22	24.5	
24	24	26.5	
26	26	28.5	
28	28	30.5	
30	30	32.5	
32	32	34.5	
34	34	36.5	
36	36	38.5	



\* Installed length

## Stepped Eccentric Increaser / DWKLØ-SEIØ Type 5

Ø	ØC	ØD	E
8	8	10.5	9.5
9	9	11.5	
10	10	12.5	
11	11	13.5	
12	12	14.5	
13	13	15.5	
14	14	16.5	
16	16	18.5	
18	18	20.5	
20	20	22.5	
22	22	24.5	
24	24	26.5	
26	26	28.5	
28	28	30.5	
30	30	32.5	
32	32	34.5	
34	34	36.5	
36	36	38.5	

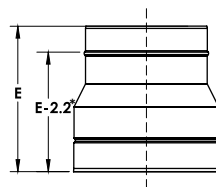
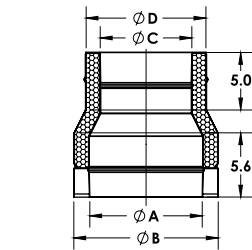


\* Installed length

# REDUCERS

## Tapered Reducer / DWKLØ-TRØ

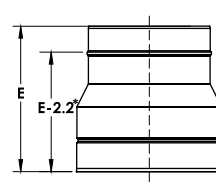
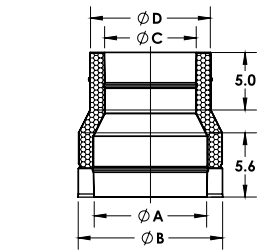
Ø	ØA	ØB	E
3	3	5.5	12.5
4	4	6.5	
5	5	7.5	
6	6	8.5	
7	7	9.5	
8	8	10.5	
9	9	11.5	
10	10	12.5	
11	11	13.5	
12	12	14.5	
13	13	15.5	
14	14	16.5	
16	16	18.5	
18	18	20.5	
20	20	22.5	
22	22	24.5	
24	24	26.5	
26	26	28.5	
28	28	30.5	
30	30	32.5	
32	32	34.5	
34	34	36.5	
36	36	38.5	



\* Installed length

## Tapered Reducer / DWKLØ-TRØ Reduction to the next standard Ø

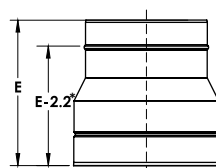
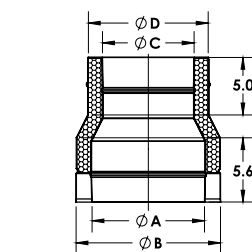
Ø	ØC	ØD	E
3	3	5.5	12.5
4	4	6.5	
5	5	7.5	
6	6	8.5	
7	7	9.5	
8	8	10.5	
9	9	11.5	
10	10	12.5	
11	11	13.5	
12	12	14.5	
13	13	15.5	
14	14	16.5	
16	16	18.5	
18	18	20.5	
20	20	22.5	
22	22	24.5	
24	24	26.5	
26	26	28.5	
28	28	30.5	
30	30	32.5	
32	32	34.5	
34	34	36.5	



\* Installed length

## Tapered Reducer / DWKLØ-TRØ Two standard Ø reduction

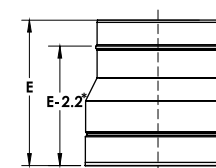
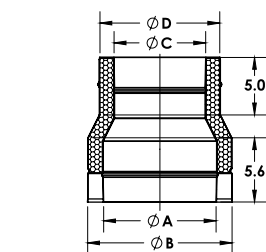
Ø	ØC	ØD	E
3	3	5.5	12.5
4	4	6.5	
5	5	7.5	
6	6	8.5	
7	7	9.5	
8	8	10.5	
9	9	11.5	
10	10	12.5	
11	11	13.5	
12	12	14.5	
13	13	15.5	
14	14	16.5	
16	16	18.5	
18	18	20.5	
20	20	22.5	
22	22	24.5	
24	24	26.5	
26	26	28.5	
28	28	30.5	
30	30	32.5	
32	32	34.5	



\* Installed length

## Tapered Reducer / DWKLØ-TRØ Three standard Ø reduction

Ø	ØC	ØD	E
3	3	5.5	12.5
4	4	6.5	
5	5	7.5	
6	6	8.5	
7	7	9.5	
8	8	10.5	
9	9	11.5	
10	10	12.5	
11	11	13.5	
12	12	14.5	
13	13	15.5	
14	14	16.5	
16	16	18.5	
18	18	20.5	
20	20	22.5	
22	22	24.5	
24	24	26.5	
26	26	28.5	
28	28	30.5	
30	30	32.5	

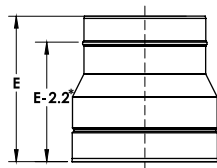
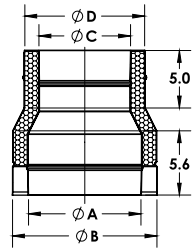


\* Installed length

# REDUCERS

**Tapered Reducer / DWKLØ-TRØ Four standard Ø reduction**

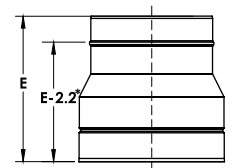
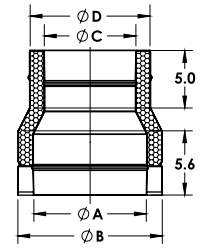
Ø	ØC	ØD	E
3	3	5.5	12.5
4	4	6.5	
5	5	7.5	
6	6	8.5	
7	7	9.5	
8	8	10.5	
9	9	11.5	
10	10	12.5	
11	11	13.5	
12	12	14.5	
13	13	15.5	
14	14	16.5	
16	16	18.5	
18	18	20.5	
20	20	22.5	
22	22	24.5	
24	24	26.5	
26	26	28.5	
28	28	30.5	



\* Installed length

**Tapered Reducer / DWKLØ-TRØ Five standard Ø reduction**

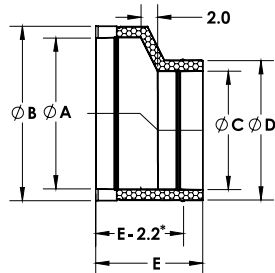
Ø	ØC	ØD	E
3	3	5.5	12.5
4	4	6.5	
5	5	7.5	
6	6	8.5	
7	7	9.5	
8	8	10.5	
9	9	11.5	
10	10	12.5	
11	11	13.5	
12	12	14.5	
13	13	15.5	
14	14	16.5	
16	16	18.5	
18	18	20.5	
20	20	22.5	
22	22	24.5	
24	24	26.5	
26	26	28.5	



\* Installed length

**Tapered Eccentric Reducer / DWKLØ-TERØ**

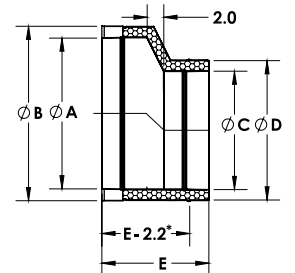
Ø	ØA	ØB	E
3	3	5.5	12.5
4	4	6.5	
5	5	7.5	
6	6	8.5	
7	7	9.5	
8	8	10.5	
9	9	11.5	
10	10	12.5	
11	11	13.5	
12	12	14.5	
13	13	15.5	
14	14	16.5	
16	16	18.5	
18	18	20.5	
20	20	22.5	
22	22	24.5	
24	24	26.5	
26	26	28.5	
28	28	30.5	
30	30	32.5	
32	32	34.5	
34	34	36.5	
36	36	38.5	



\* Installed length

**Tapered Eccentric Reducer / DWKLØ-TERØ Reduction to next standard Ø**

Ø	ØC	ØD	E
3	3	5.5	12.5
4	4	6.5	
5	5	7.5	
6	6	8.5	
7	7	9.5	
8	8	10.5	
9	9	11.5	
10	10	12.5	
11	11	13.5	
12	12	14.5	
13	13	15.5	
14	14	16.5	
16	16	18.5	
18	18	20.5	
20	20	22.5	
22	22	24.5	
24	24	26.5	
26	26	28.5	
28	28	30.5	
30	30	32.5	
32	32	34.5	
34	34	36.5	

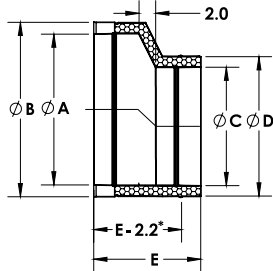


\* Installed length

# REDUCERS

Tapered Eccentric Reducer / DWKLØ-TERØ Two standard Ø reduction

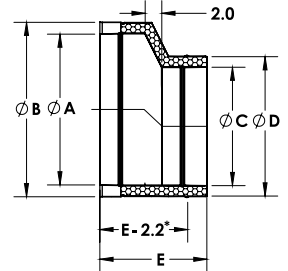
Ø	ØC	ØD	E
3	3	5.5	12.5
4	4	6.5	
5	5	7.5	
6	6	8.5	
7	7	9.5	
8	8	10.5	
9	9	11.5	
10	10	12.5	
11	11	13.5	
12	12	14.5	
13	13	15.5	
14	14	16.5	
16	16	18.5	
18	18	20.5	
20	20	22.5	
22	22	24.5	
24	24	26.5	
26	26	28.5	
28	28	30.5	
30	30	32.5	
32	32	34.5	



\* Installed length

Tapered Eccentric Reducer / DWKLØ-TERØ Three standard Ø reduction

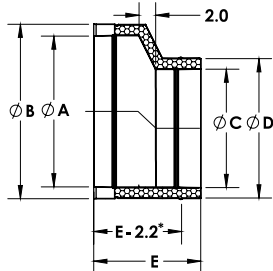
Ø	ØC	ØD	E
3	3	5.5	12.5
4	4	6.5	
5	5	7.5	
6	6	8.5	
7	7	9.5	
8	8	10.5	
9	9	11.5	
10	10	12.5	
11	11	13.5	
12	12	14.5	
13	13	15.5	
14	14	16.5	
16	16	18.5	
18	18	20.5	
20	20	22.5	
22	22	24.5	
24	24	26.5	
26	26	28.5	
28	28	30.5	
30	30	32.5	



\* Installed length

Tapered Eccentric Reducer / DWKLØ-TERØ Four standard Ø reduction

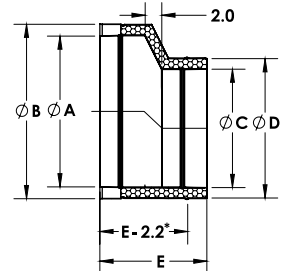
Ø	ØC	ØD	E
3	3	5.5	12.5
4	4	6.5	
5	5	7.5	
6	6	8.5	
7	7	9.5	
8	8	10.5	
9	9	11.5	
10	10	12.5	
11	11	13.5	
12	12	14.5	
13	13	15.5	
14	14	16.5	
16	16	18.5	
18	18	20.5	
20	20	22.5	
22	22	24.5	
24	24	26.5	
26	26	28.5	
28	28	30.5	



\* Installed length

Tapered Eccentric Reducer / DWKLØ-TERØ Five standard Ø reduction

Ø	ØC	ØD	E
3	3	5.5	12.5
4	4	6.5	
5	5	7.5	
6	6	8.5	
7	7	9.5	
8	8	10.5	
9	9	11.5	
10	10	12.5	
11	11	13.5	
12	12	14.5	
13	13	15.5	
14	14	16.5	
16	16	18.5	
18	18	20.5	
20	20	22.5	
22	22	24.5	
24	24	26.5	
26	26	28.5	



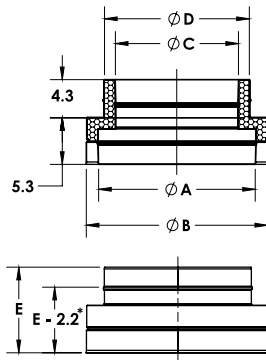
\* Installed length



# REDUCERS

## Stepped Reducer / DWKLØ-SRØ

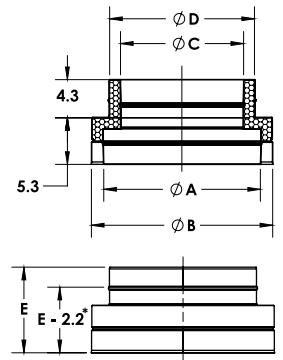
Ø	ØA	ØB	E
3	3	5.5	9.5
4	4	6.5	
5	5	7.5	
6	6	8.5	
7	7	9.5	
8	8	10.5	
9	9	11.5	
10	10	12.5	
11	11	13.5	
12	12	14.5	
13	13	15.5	
14	14	16.5	
16	16	18.5	
18	18	20.5	
20	20	22.5	
22	22	24.5	
24	24	26.5	
26	26	28.5	
28	28	30.5	
30	30	32.5	
32	32	34.5	
34	34	36.5	
36	36	38.5	



\* Installed length

## Stepped Reducer / DWKLØ-SRØ Reduction to next standard Ø

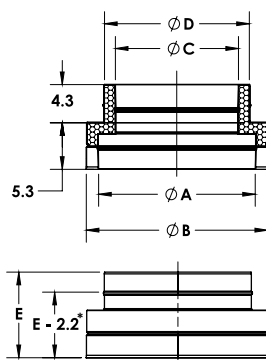
Ø	ØC	ØD	E
3	3	5.5	9.5
4	4	6.5	
5	5	7.5	
6	6	8.5	
7	7	9.5	
8	8	10.5	
9	9	11.5	
10	10	12.5	
11	11	13.5	
12	12	14.5	
13	13	15.5	
14	14	16.5	
16	16	18.5	
18	18	20.5	
20	20	22.5	
22	22	24.5	
24	24	26.5	
26	26	28.5	
28	28	30.5	
30	30	32.5	
32	32	34.5	
34	34	36.5	



\* Installed length

## Stepped Reducer / DWKLØ-SRØ Two standard Ø reduction

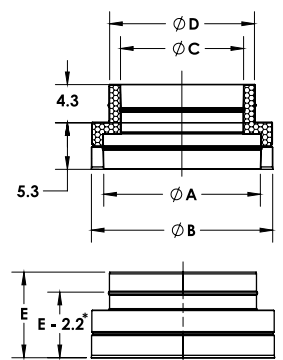
Ø	ØC	ØD	E
3	3	5.5	9.5
4	4	6.5	
5	5	7.5	
6	6	8.5	
7	7	9.5	
8	8	10.5	
9	9	11.5	
10	10	12.5	
11	11	13.5	
12	12	14.5	
13	13	15.5	
14	14	16.5	
16	16	18.5	
18	18	20.5	
20	20	22.5	
22	22	24.5	
24	24	26.5	
26	26	28.5	
28	28	30.5	
30	30	32.5	
32	32	34.5	



\* Installed length

## Stepped Reducer / DWKLØ-SRØ Three standard Ø reduction

Ø	ØC	ØD	E
3	3	5.5	9.5
4	4	6.5	
5	5	7.5	
6	6	8.5	
7	7	9.5	
8	8	10.5	
9	9	11.5	
10	10	12.5	
11	11	13.5	
12	12	14.5	
13	13	15.5	
14	14	16.5	
16	16	18.5	
18	18	20.5	
20	20	22.5	
22	22	24.5	
24	24	26.5	
26	26	28.5	
28	28	30.5	
30	30	32.5	

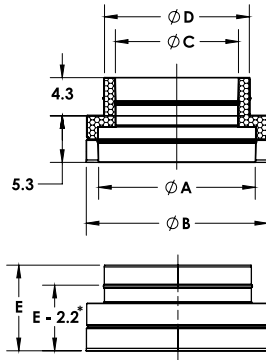


\* Installed length

# REDUCERS

## Stepped Reducer / DWKLØ-SRØ Four standard Ø reduction

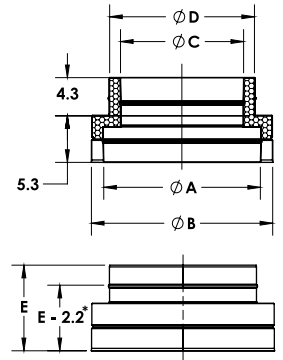
Ø	ØC	ØD	E
3	3	5.5	9.5
4	4	6.5	
5	5	7.5	
6	6	8.5	
7	7	9.5	
8	8	10.5	
9	9	11.5	
10	10	12.5	
11	11	13.5	
12	12	14.5	
13	13	15.5	
14	14	16.5	
16	16	18.5	
18	18	20.5	
20	20	22.5	
22	22	24.5	
24	24	26.5	
26	26	28.5	
28	28	30.5	



\* Installed length

## Stepped Reducer / DWKLØ-SRØ Five standard Ø reduction

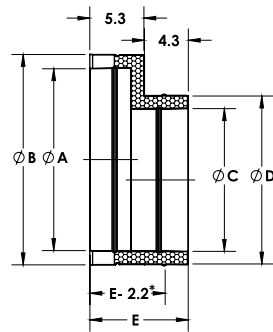
Ø	ØC	ØD	E
3	3	5.5	9.5
4	4	6.5	
5	5	7.5	
6	6	8.5	
7	7	9.5	
8	8	10.5	
9	9	11.5	
10	10	12.5	
11	11	13.5	
12	12	14.5	
13	13	15.5	
14	14	16.5	
16	16	18.5	
18	18	20.5	
20	20	22.5	
22	22	24.5	
24	24	26.5	
26	26	28.5	



\* Installed length

## Stepped Eccentric Reducer / DWKLØ-SERØ

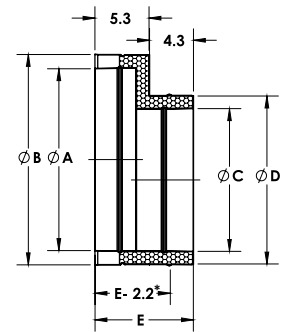
Ø	ØA	ØB	E
3	3	5.5	9.5
4	4	6.5	
5	5	7.5	
6	6	8.5	
7	7	9.5	
8	8	10.5	
9	9	11.5	
10	10	12.5	
11	11	13.5	
12	12	14.5	
13	13	15.5	
14	14	16.5	
16	16	18.5	
18	18	20.5	
20	20	22.5	
22	22	24.5	
24	24	26.5	
26	26	28.5	
28	28	30.5	
30	30	32.5	
32	32	34.5	
34	34	36.5	
36	36	38.5	



\* Installed length

## Stepped Eccentric Reducer / DWKLØ-SERØ Reduction to next standard Ø

Ø	ØA	ØB	E
3	3	5.5	9.5
4	4	6.5	
5	5	7.5	
6	6	8.5	
7	7	9.5	
8	8	10.5	
9	9	11.5	
10	10	12.5	
11	11	13.5	
12	12	14.5	
13	13	15.5	
14	14	16.5	
16	16	18.5	
18	18	20.5	
20	20	22.5	
22	22	24.5	
24	24	26.5	
26	26	28.5	
28	28	30.5	
30	30	32.5	
32	32	34.5	
34	34	36.5	

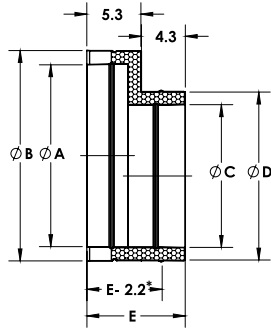


\* Installed length

# REDUCERS

Stepped Eccentric Reducer / DWKLØ-SERØ Two standard Ø reduction

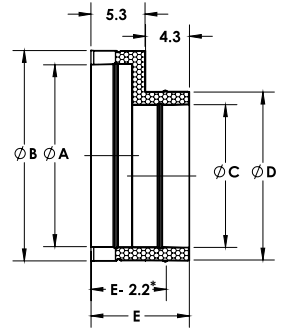
Ø	ØA	ØB	E
3	3	5.5	9.5
4	4	6.5	
5	5	7.5	
6	6	8.5	
7	7	9.5	
8	8	10.5	
9	9	11.5	
10	10	12.5	
11	11	13.5	
12	12	14.5	
13	13	15.5	
14	14	16.5	
16	16	18.5	
18	18	20.5	
20	20	22.5	
22	22	24.5	
24	24	26.5	
26	26	28.5	
28	28	30.5	
30	30	32.5	
32	32	34.5	



\* Installed length

Stepped Eccentric Reducer / DWKLØ-SERØ Three standard Ø reduction

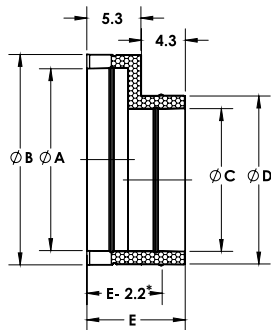
Ø	ØA	ØB	E
3	3	5.5	9.5
4	4	6.5	
5	5	7.5	
6	6	8.5	
7	7	9.5	
8	8	10.5	
9	9	11.5	
10	10	12.5	
11	11	13.5	
12	12	14.5	
13	13	15.5	
14	14	16.5	
16	16	18.5	
18	18	20.5	
20	20	22.5	
22	22	24.5	
24	24	26.5	
26	26	28.5	
28	28	30.5	
30	30	32.5	



\* Installed length

Stepped Eccentric Reducer / DWKLØ-SERØ Four standard Ø reduction

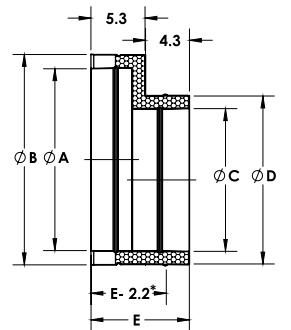
Ø	ØA	ØB	E
3	3	5.5	9.5
4	4	6.5	
5	5	7.5	
6	6	8.5	
7	7	9.5	
8	8	10.5	
9	9	11.5	
10	10	12.5	
11	11	13.5	
12	12	14.5	
13	13	15.5	
14	14	16.5	
16	16	18.5	
18	18	20.5	
20	20	22.5	
22	22	24.5	
24	24	26.5	
26	26	28.5	
28	28	30.5	



\* Installed length

Stepped Eccentric Reducer / DWKLØ-SERØ Five standard Ø reduction

Ø	ØA	ØB	E
3	3	5.5	9.5
4	4	6.5	
5	5	7.5	
6	6	8.5	
7	7	9.5	
8	8	10.5	
9	9	11.5	
10	10	12.5	
11	11	13.5	
12	12	14.5	
13	13	15.5	
14	14	16.5	
16	16	18.5	
18	18	20.5	
20	20	22.5	
22	22	24.5	
24	24	26.5	
26	26	28.5	

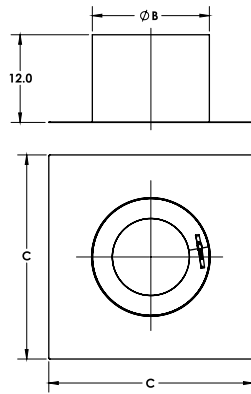


\* Installed length

# FLASHINGS

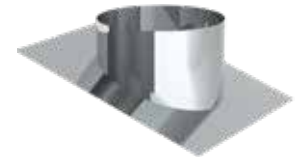
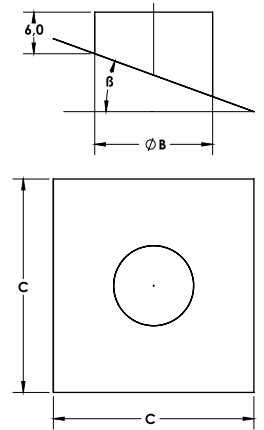
## Flat Roof Flashing / DWKLØ-FRF

Ø	ØA	ØB	ØC
3	5.5	13	25
4	6.5	14	26
5	7.4	15	27
6	8.5	16	28
7	9.5	17	29
8	10.5	18	30
9	11.5	19	31
10	12.5	20	32
11	13.5	21	33
12	14.5	22	34
13	15.5	23	35
14	16.5	24	36
16	18.5	26	38
18	20.5	28	40
20	22.5	30	42
22	24.5	32	44
24	26.5	34	46
26	28.5	36	48
28	30.5	38	50
30	32.5	40	52
32	34.5	42	54
34	36.5	44	56
36	38.5	46	58



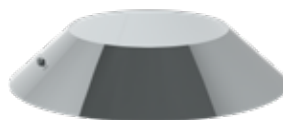
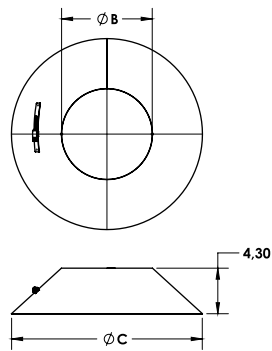
## Pitched Roof Flashing / DWKLØ-PRF

Ø	ØA	ØB	ØC	B
3	5.5	13	25	Customer Dimension
4	6.5	14	26	
5	7.4	15	27	
6	8.5	16	28	
7	9.5	17	29	
8	10.5	18	30	
9	11.5	19	31	
10	12.5	20	32	
11	13.5	21	33	
12	14.5	22	34	
13	15.5	23	35	
14	16.5	24	36	
16	18.5	26	38	
18	20.5	28	40	
20	22.5	30	42	
22	24.5	32	44	
24	26.5	34	46	
26	28.5	36	48	
28	30.5	38	50	
30	32.5	40	52	
32	34.5	42	54	
34	36.5	44	56	
36	38.5	46	58	



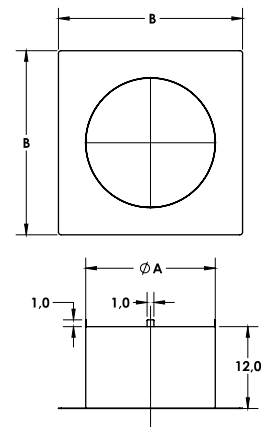
## Storm Collar / DWKLØ-SC

Ø	ØB	ØC min distance
3	5.5	15
4	6.5	16
5	7.4	17
6	8.5	18
7	9.5	19
8	10.5	20
9	11.5	21
10	12.5	22
11	13.5	23
12	14.5	24
13	15.5	25
14	16.5	26
16	18.5	28
18	20.5	30
20	22.5	32
22	24.5	34
24	26.5	36
26	28.5	38
28	30.5	40
30	32.5	42
32	34.5	44
34	36.5	46
36	38.5	48



## Ventilated Roof Flashing / DWKL-VRF

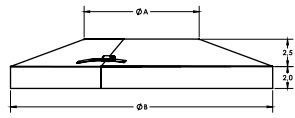
Ø	ØA	ØB
3	16	24
4	17	25
5	18	26
6	19	27
7	20	28
8	21	29
9	22	30
10	23	31
11	24	32
12	25	33
13	26	34
14	27	35
16	29	37
18	31	39
20	33	41
22	35	43
24	37	45
26	39	47
28	41	49
30	43	51
32	45	53
34	47	55
36	49	57



# FLASHINGS

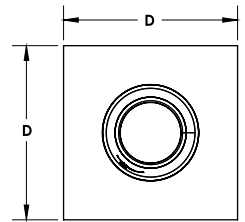
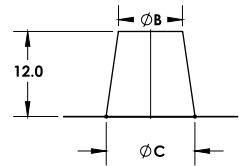
## Ventilated Storm Collar / DWKL-VSC

Ø	ØA	ØB
3	5.5	19
4	6.5	20
5	7.4	21
6	8.5	22
7	9.5	23
8	10.5	24
9	11.5	25
10	12.5	26
11	13.5	27
12	14.5	28
13	15.5	29
14	16.5	30
16	18.5	32
18	20.5	34
20	22.5	36
22	24.5	38
24	26.5	40
26	28.5	42
28	30.5	44
30	32.5	46
32	34.5	48
34	36.5	50
36	38.5	52



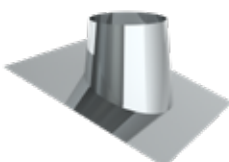
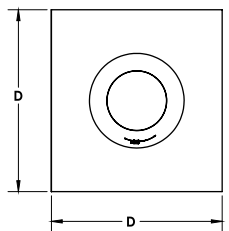
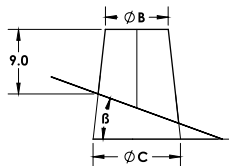
## Flat Cone Flashing / DWKL-FCF

Ø	I.D	ØB	ØC
3	3	9.5	21.5
4	4	10.5	22.5
5	5	11.5	23.5
6	6	12.5	24.5
7	7	13.5	25.5
8	8	14.5	26.5
9	9	15.5	27.5
10	10	16.5	28.5
11	11	17.5	29.5
12	12	18.5	30.5
13	13	19.5	31.5
14	14	20.5	32.5
16	16	22.5	34.5
18	18	24.5	36.5
20	20	26.5	38.5
22	22	28.5	40.5
24	24	30.5	42.5
26	26	32.5	44.5
28	28	34.5	46.5
30	30	36.5	48.5
32	32	38.5	50.5
34	34	40.5	52.5
36	36	42.5	54.5



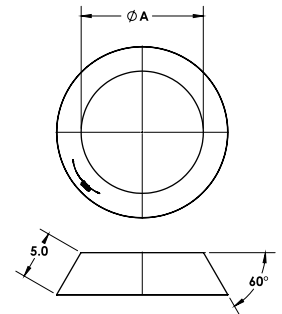
## Pitched Cone Flashing / DWKL-PCF

Ø	ØB	ØC	ØD	B
3	6.5	9.5	21.5	Customer Dimension
4	7.5	10.5	22.5	
5	8.5	11.5	23.5	
6	9.5	12.5	24.5	
7	10.5	13.5	25.5	
8	11.5	14.5	26.5	
9	12.5	15.5	27.5	
10	13.5	16.5	28.5	
11	14.5	17.5	29.5	
12	15.5	18.5	30.5	
13	16.5	19.5	31.5	
14	17.5	20.5	32.5	
16	19.5	22.5	34.5	
18	21.5	24.5	36.5	
20	23.5	26.5	38.5	
22	25.5	28.5	40.5	
24	27.5	30.5	42.5	
26	29.5	32.5	44.5	
28	31.5	34.5	46.5	
30	33.5	36.5	48.5	
32	35.5	38.5	50.5	
34	37.5	40.5	52.5	
36	39.5	42.5	54.5	



## Storm Collar For Coned Flashings / DWKL-SCCF

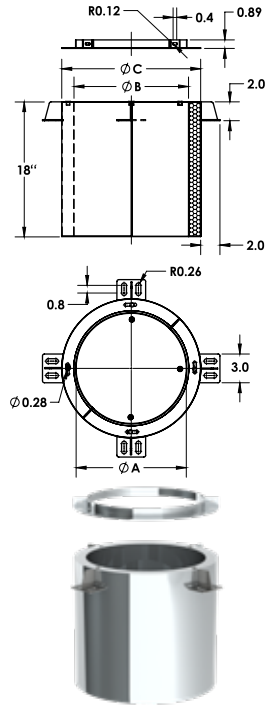
Ø	ØA
3	5.5
4	6.5
5	7.5
6	8.5
7	9.5
8	10.5
9	11.5
10	12.5
11	13.5
12	14.5
13	15.5
14	16.5
16	18.5
18	20.5
20	22.5
22	24.5
24	26.5
26	28.5
28	30.5
30	32.5
32	34.5
34	36.5
36	38.5



# FLASHINGS

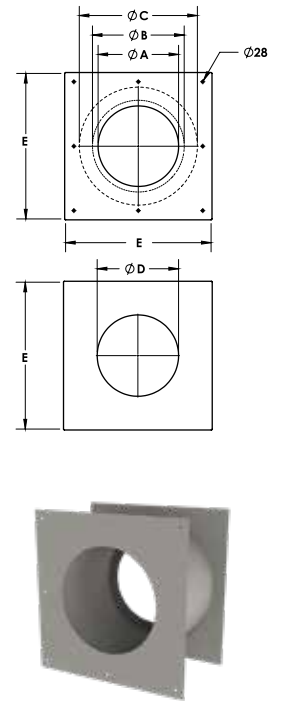
## High Temperature Insulated Thimble / ØDWKL-HTT

Ø	ØA	ØB	ØC
3	5.5	6	8.5
4	6.5	7	9.5
5	7.4	8	10.5
6	8.5	9	11.5
7	9.5	10	12.5
8	10.5	11	13.5
9	11.5	12	14.5
10	12.5	13	15.5
11	13.5	14	16.5
12	14.5	15	17.5
13	15.5	16	18.5
14	16.5	17	19.5
16	18.5	19	21.5
18	20.5	21	23.5
20	22.5	23	25.5
22	24.5	25	27.5
24	26.5	27	29.5
26	28.5	29	31.5
28	30.5	31	33.5
30	32.5	33	35.5
32	34.5	35	37.5
34	36.5	38	39.5
36	38.5	39	41.5



## Low Temperature Thimble / DWKL-LTT

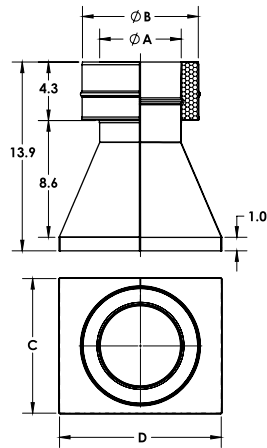
Ø	I.D	ØA	ØB	ØC	ØD	ØE
3	3					
4	4					
5	5					
6	6					
7	7					
8	8					
9	9					
10	10					
11	11					
12	12					
13	13					
14	14	I.D + 2.75				
16	16		I.D + 4"			
18	18			I.D + 6.5		
20	20				I.D + 5.5	
22	22					I.D + 10"
24	24					
26	26					
28	28					
30	30					
32	32					
34	34					
36	36					



# TERMINATIONS

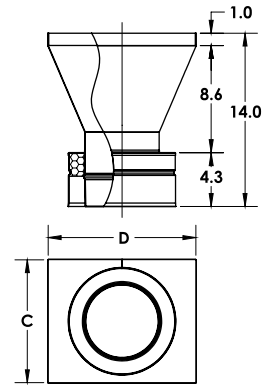
## Transition to Round - Start / DWKLØ-TRS

Ø	ØA	ØB	ØC	ØD
3	3	5.5		
4	4	6.5		
5	5	7.5		
6	6	8.5		
7	7	9.5		
8	8	10.5		
9	9	11.5		
10	10	12.5		
11	11	13.5		
12	12	14.5		
13	13	15.5		
14	14	16.5		
16	16	18.5		
18	18	20.5		
20	20	22.5		
22	22	24.5		
24	24	26.5		
26	26	28.5		
28	28	30.5		
30	30	32.5		
32	32	34.5		
34	34	36.5		
36	36	38.5		



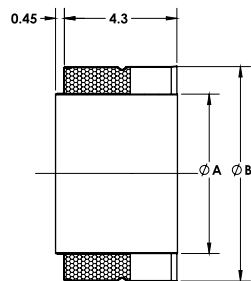
## Transition to Round - End / DWKLØ-TRE

Ø	ØA	ØB	C	D
3	3	5.5		
4	4	6.5		
5	5	7.5		
6	6	8.5		
7	7	9.5		
8	8	10.5		
9	9	11.5		
10	10	12.5		
11	11	13.5		
12	12	14.5		
13	13	15.5		
14	14	16.5		
16	16	18.5		
18	18	20.5		
20	20	22.5		
22	22	24.5		
24	24	26.5		
26	26	28.5		
28	28	30.5		
30	30	32.5		
32	32	34.5		
34	34	36.5		
36	36	38.5		



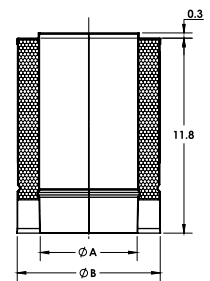
## Open Termination / DWKLØ-OTN

Ø	ØA	ØB
3	3	5.5
4	4	6.5
5	5	7.5
6	6	8.5
7	7	9.5
8	8	10.5
9	9	11.5
10	10	12.5
11	11	13.5
12	12	14.5
13	13	15.5
14	14	16.5
16	16	18.5
18	18	20.5
20	20	22.5
22	22	24.5
24	24	26.5
26	26	28.5
28	28	30.5
30	30	32.5
32	32	34.5
34	34	36.5
36	36	38.5



## Open Termination High Temp / DWKLØ-OTNH

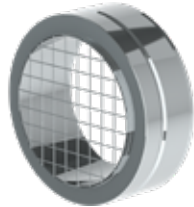
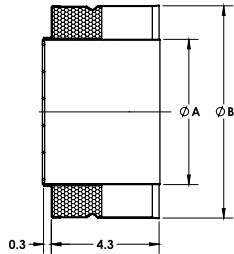
Ø	ØA	ØB
3	3	5.5
4	4	6.5
5	5	7.5
6	6	8.5
7	7	9.5
8	8	10.5
9	9	11.5
10	10	12.5
11	11	13.5
12	12	14.5
13	13	15.5
14	14	16.5
16	16	18.5
18	18	20.5
20	20	22.5
22	22	24.5
24	24	26.5
26	26	28.5
28	28	30.5
30	30	32.5
32	32	34.5
34	34	36.5
36	36	38.5



# TERMINATIONS

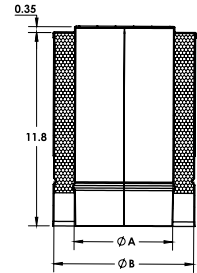
## Open Termination w/Screen / DWKLØ-OTS

Ø	ØA	ØB
3	3	5.5
4	4	6.5
5	5	7.5
6	6	8.5
7	7	9.5
8	8	10.5
9	9	11.5
10	10	12.5
11	11	13.5
12	12	14.5
13	13	15.5
14	14	16.5
16	16	18.5
18	18	20.5
20	20	22.5
22	22	24.5
24	24	26.5
26	26	28.5
28	28	30.5
30	30	32.5
32	32	34.5
34	34	36.5
36	36	38.5



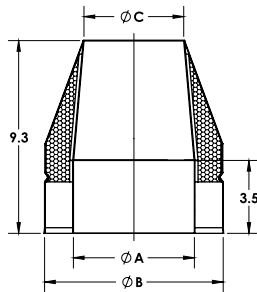
## Open Termination w/Screen High Temp / DWKLØ-OTSH

Ø	ØA	ØB
3	3	5.5
4	4	6.5
5	5	7.5
6	6	8.5
7	7	9.5
8	8	10.5
9	9	11.5
10	10	12.5
11	11	13.5
12	12	14.5
13	13	15.5
14	14	16.5
16	16	18.5
18	18	20.5
20	20	22.5
22	22	24.5
24	24	26.5
26	26	28.5
28	28	30.5
30	30	32.5
32	32	34.5
34	34	36.5
36	36	38.5



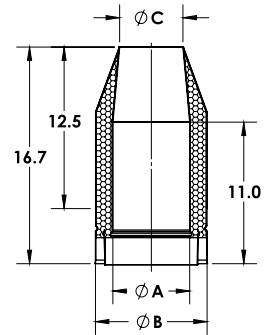
## Exit Cone / DWKLØ-EC

Ø	ØA	ØB	C
3	3	5.5	2.44
4	4	6.5	3.26
5	5	7.5	4.08
6	6	8.5	4.89
7	7	9.5	5.71
8	8	10.5	6.53
9	9	11.5	7.34
10	10	12.5	8.16
11	11	13.5	8.98
12	12	14.5	9.79
13	13	15.5	10.61
14	14	16.5	11.43
16	16	18.5	13.06
18	18	20.5	14.69
20	20	22.5	16.32
22	22	24.5	17.96
24	24	26.5	19.59
26	26	28.5	20.92
28	28	30.5	22.58
30	30	32.5	23.91
32	32	34.5	25.54
34	34	36.5	26.96
36	36	38.5	28.59



## Exit Cone High Temp / DWKLØ-ECH

Ø	ØA	ØB	C
3	3	5.5	2.44
4	4	6.5	3.26
5	5	7.5	4.08
6	6	8.5	4.89
7	7	9.5	5.71
8	8	10.5	6.53
9	9	11.5	7.34
10	10	12.5	8.16
11	11	13.5	8.98
12	12	14.5	9.79
13	13	15.5	10.61
14	14	16.5	11.43
16	16	18.5	13.06
18	18	20.5	14.69
20	20	22.5	16.32
22	22	24.5	17.96
24	24	26.5	19.59
26	26	28.5	20.92
28	28	30.5	22.58
30	30	32.5	23.91
32	32	34.5	25.54
34	34	36.5	26.96
36	36	38.5	28.59

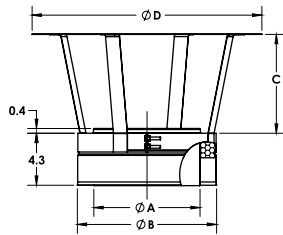




# TERMINATIONS

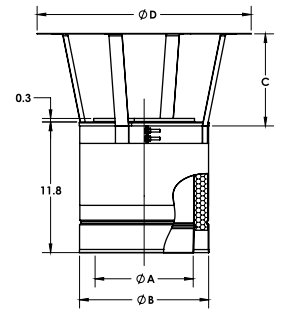
Flat Top Rain Cap / DWKLØ-FTN

Ø	ØA	ØB	C	ØD
3	3	5.5	5.31	11.1
4	4	6.5	5.31	11.8
5	5	7.5	6.89	12.9
6	6	8.5	7.09	14.2
7	7	9.5	7.87	14.7
8	8	10.5	8.27	16.1
9	9	11.5	8.27	18.5
10	10	12.5	10.24	21.3
11	11	13.5	11.02	23.5
12	12	14.5	12.01	25.4
13	13	15.5	12.01	26.4
14	14	16.5	13.39	29
16	16	18.5	14.57	32.4
18	18	20.5	15.35	34.9
20	20	22.5	15.35	37.3
22	22	24.5	16.54	40.3
24	24	26.5	16.93	43.2
26	26	28.5	17.47	44.2
28	28	30.5	18.01	46.6
30	30	32.5	18.55	49.3
32	32	34.5	19.09	51.7
34	34	36.5	19.63	53.9
36	36	38.5	20.17	56.6



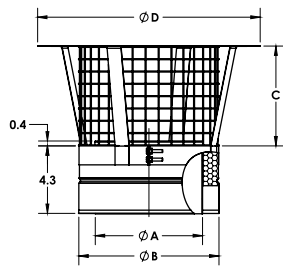
Flat Top Rain Cap High Temp / DWKLØ-FTNH

Ø	ØA	ØB	C	ØD
3	3	5.5	5.31	11.1
4	4	6.5	5.31	11.8
5	5	7.5	6.89	12.9
6	6	8.5	7.09	14.2
7	7	9.5	7.87	14.7
8	8	10.5	8.27	16.1
9	9	11.5	8.27	18.5
10	10	12.5	10.24	21.3
11	11	13.5	11.02	23.5
12	12	14.5	12.01	25.4
13	13	15.5	12.01	26.4
14	14	16.5	13.39	29.0
16	16	18.5	14.57	32.4
18	18	20.5	15.35	34.9
20	20	22.5	15.35	37.3
22	22	24.5	16.54	40.3
24	24	26.5	16.93	43.2
26	26	28.5	17.47	44.2
28	28	30.5	18.01	46.6
30	30	32.5	18.55	49.3
32	32	34.5	19.09	51.7
34	34	36.5	19.63	53.9
36	36	38.5	20.17	56.6



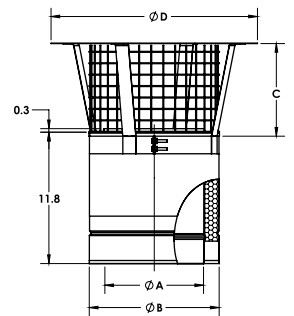
Flat Top Rain Cap w/Screen / DWKLØ-FTS

Ø	ØA	ØB	C	ØD
3	3	5.5	5.31	11.1
4	4	6.5	5.31	11.8
5	5	7.5	6.89	12.9
6	6	8.5	7.09	14.2
7	7	9.5	7.87	14.7
8	8	10.5	8.27	16.1
9	9	11.5	8.27	18.5
10	10	12.5	10.24	21.3
11	11	13.5	11.02	23.5
12	12	14.5	12.01	25.4
13	13	15.5	12.01	26.4
14	14	16.5	13.39	29.0
16	16	18.5	14.57	32.4
18	18	20.5	15.35	34.9
20	20	22.5	15.35	37.3
22	22	24.5	16.54	40.3
24	24	26.5	16.93	43.2
26	26	28.5	17.47	44.2
28	28	30.5	18.01	46.6
30	30	32.5	18.55	49.3
32	32	34.5	19.09	51.7
34	34	36.5	19.63	53.9
36	36	38.5	20.17	56.6



Flat Top Rain Cap w/Screen High Temp / DWKLØ-FTSH

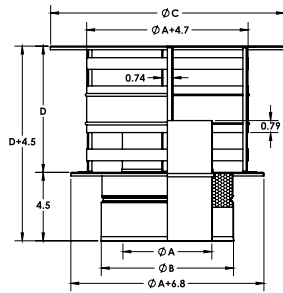
Ø	ØA	ØB	C	ØD
3	3	5.5	5.31	11.1
4	4	6.5	5.31	11.8
5	5	7.5	6.89	12.9
6	6	8.5	7.09	14.2
7	7	9.5	7.87	14.7
8	8	10.5	8.27	16.1
9	9	11.5	8.27	18.5
10	10	12.5	10.24	21.3
11	11	13.5	11.02	23.5
12	12	14.5	12.01	25.4
13	13	15.5	12.01	26.4
14	14	16.5	13.39	29.0
16	16	18.5	14.57	32.4
18	18	20.5	15.35	34.9
20	20	22.5	15.35	37.3
22	22	24.5	16.54	40.3
24	24	26.5	16.93	43.2
26	26	28.5	17.47	44.2
28	28	30.5	18.01	46.6
30	30	32.5	18.55	49.3
32	32	34.5	19.09	51.7
34	34	36.5	19.63	53.9
36	36	38.5	20.17	56.6



# TERMINATIONS

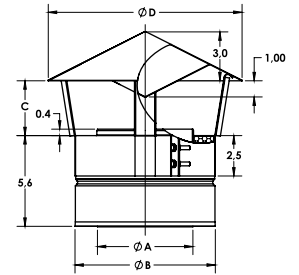
## High Wind Rain Cap / DWKLØ-WRC

Ø	ØA	ØB	ØC	D	E
3	2.9	5.5	10.3	7	0.60
4	3.9	6.5	12.3	7.5	0.66
5	4.9	7.5	13.8	8	0.72
6	5.9	8.5	15.4	8.3	0.77
7	6.9	9.5	17.3	9	0.85
8	8.9	10.5	20	9.5	0.90
9	8.9	11.5	22	10	0.96
10	9.9	12.5	24	10.8	1.05
11	10.9	13.5	26	11.3	1.11
12	11.9	14.5	28	11.8	1.10
13	12.9	15.5	30	12	1.13
14	13.9	16.5	31.5	12.5	1.19
16	15.9	18.5	35	13	1.25
18	17.9	20.5	37	13.2	1.29
20	19.9	22.5	39	13.5	1.33
22	21.9	24.5	41	14	1.39
24	23.9	26.5	44	14.3	1.43
26	25.9	26.5	47	14.6	1.43
28	27.9	26.5	50	15	1.48
30	29.9	26.5	52	15.3	1.52
32	31.9	26.5	55	15.8	1.58
34	33.9	26.5	58	16.2	1.62
36	35.9	26.5	61	16.7	1.68



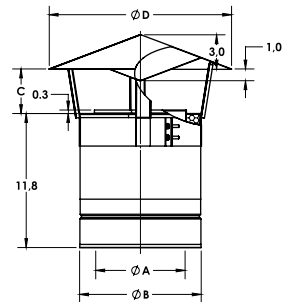
## Stack Cap - no Screen / DWKLØ-SCN

Ø	ØA	ØB	C	ØD
3	3	5.5	2.0	6.0
4	4	6.5	2.3	8.0
5	5	7.5	2.7	10.0
6	6	8.5	3.4	12.0
7	7	9.5	3.9	14.0
8	8	10.5	4.2	16.0
9	9	11.5	4.7	18.0
10	10	12.5	5.1	20.0
11	11	13.5	5.6	22.0
12	12	14.5	6.1	24.0
13	13	15.5	6.6	26.0
14	14	16.5	7.0	28.0
16	16	18.5	8.0	32.0
18	18	20.5	9.0	36.0
20	20	22.5	10.0	40.0
22	22	24.5	11.0	44.0
24	24	26.5	12.0	48.0
26	26	28.5	13.0	52.0
28	28	30.5	14.0	56.0
30	30	32.5	15.0	60.0
32	32	34.5	16.0	64.0
34	34	36.5	17.0	68.0
36	36	38.5	18.0	72.0



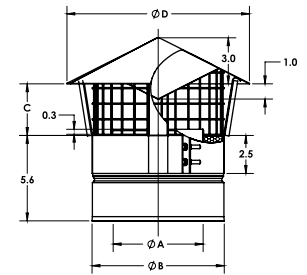
## Stack Cap - no Screen High Temperature / D-KLØ-SCNH

Ø	ØA	ØB	C	ØD
3	3	5.5	2.0	6.0
4	4	6.5	2.3	8.0
5	5	7.5	2.7	10.0
6	6	8.5	3.4	12.0
7	7	9.5	3.9	14.0
8	8	10.5	4.2	16.0
9	9	11.5	4.7	18.0
10	10	12.5	5.1	20.0
11	11	13.5	5.6	22.0
12	12	14.5	6.1	24.0
13	13	15.5	6.6	26.0
14	14	16.5	7.0	28.0
16	16	18.5	8.0	32.0
18	18	20.5	9.0	36.0
20	20	22.5	10.0	40.0
22	22	24.5	11.0	44.0
24	24	26.5	12.0	48.0
26	26	28.5	13.0	52.0
28	28	30.5	14.0	56.0
30	30	32.5	15.0	60.0
32	32	34.5	16.0	64.0
34	34	36.5	17.0	68.0
36	36	38.5	18.0	72.0



## Stack Cap w/Screen / DWKLØ-SCS

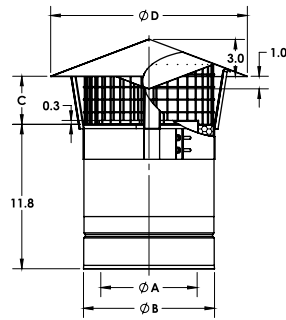
Ø	ØA	ØB	C	ØD
3	3	5.5	2.0	6.0
4	4	6.5	2.3	8.0
5	5	7.5	2.7	10.0
6	6	8.5	3.4	12.0
7	7	9.5	3.9	14.0
8	8	10.5	4.2	16.0
9	9	11.5	4.7	18.0
10	10	12.5	5.1	20.0
11	11	13.5	5.6	22.0
12	12	14.5	6.1	24.0
13	13	15.5	6.6	26.0
14	14	16.5	7.0	28.0
16	16	18.5	8.0	32.0
18	18	20.5	9.0	36.0
20	20	22.5	10.0	40.0
22	22	24.5	11.0	44.0
24	24	26.5	12.0	48.0
26	26	28.5	13.0	52.0
28	28	30.5	14.0	56.0
30	30	32.5	15.0	60.0
32	32	34.5	16.0	64.0
34	34	36.5	17.0	68.0
36	36	38.5	18.0	72.0



# TERMINATIONS

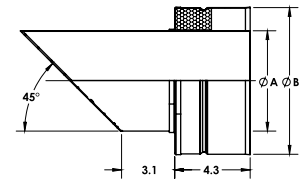
## Stack Cap w/Screen High Temp / DWKLØ-SCSH

Ø	ØA	ØB	C	ØD
3	3	5.5	2.0	6.0
4	4	6.5	2.3	8.0
5	5	7.5	2.7	10.0
6	6	8.5	3.4	12.0
7	7	9.5	3.9	14.0
8	8	10.5	4.2	16.0
9	9	11.5	4.7	18.0
10	10	12.5	5.1	20.0
11	11	13.5	5.6	22.0
12	12	14.5	6.1	24.0
13	13	15.5	6.6	26.0
14	14	16.5	7.0	28.0
16	16	18.5	8.0	32.0
18	18	20.5	9.0	36.0
20	20	22.5	10.0	40.0
22	22	24.5	11.0	44.0
24	24	26.5	12.0	48.0
26	26	28.5	13.0	52.0
28	28	30.5	14.0	56.0
30	30	32.5	15.0	60.0
32	32	34.5	16.0	64.0
34	34	36.5	17.0	68.0
36	36	38.5	18.0	72.0



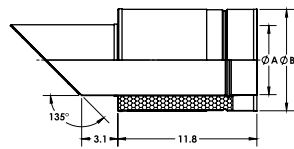
## Miter Cut Termination w/Screen / DWKLØ-MCS

Ø	ØA	ØB
3	3	5.5
4	4	6.5
5	5	7.5
6	6	8.5
7	7	9.5
8	8	10.5
9	9	11.5
10	10	12.5
11	11	13.5
12	12	14.5
13	13	15.5
14	14	16.5
16	16	18.5
18	18	20.5
20	20	22.5
22	22	24.5
24	24	26.5
26	26	28.5
28	28	30.5
30	30	32.5
32	32	34.5
34	34	36.5
36	36	38.5



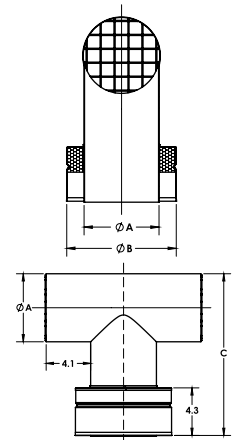
## Miter Cut Termination w/Screen High Temp / DWKLØ-MCSH

Ø	ØA	ØB
3	3	5.5
4	4	6.5
5	5	7.5
6	6	8.5
7	7	9.5
8	8	10.5
9	9	11.5
10	10	12.5
11	11	13.5
12	12	14.5
13	13	15.5
14	14	16.5
16	16	18.5
18	18	20.5
20	20	22.5
22	22	24.5
24	24	26.5
26	26	28.5
28	28	30.5
30	30	32.5
32	32	34.5
34	34	36.5
36	36	38.5



## Tee Termination w/Screen / DWKLØ-TT

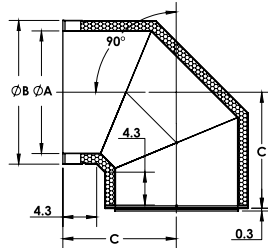
Ø	ØA	ØB	C
3	3	5.5	14
4	4	6.5	15
5	5	7.5	16
6	6	8.5	17
7	7	9.5	18
8	8	10.5	19
9	9	11.5	20
10	10	12.5	21
11	11	13.5	22
12	12	14.5	23
13	13	15.5	24
14	14	16.5	25
16	16	18.5	27
18	18	20.5	29
20	20	22.5	31
22	22	24.5	33
24	24	26.5	35
26	26	28.5	37
28	28	30.5	39
30	30	32.5	41
32	32	34.5	43
34	34	36.5	45
36	36	38.5	47



# TERMINATIONS

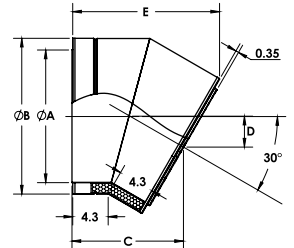
## 90° Termination w/Screen / DWKLØ-90ET

Ø	ØA	ØB	C
3	3	5.5	8.2
4	4	6.5	8.7
5	5	7.5	9.2
6	6	8.5	9.7
7	7	9.5	10.2
8	8	10.5	10.7
9	9	11.5	11.2
10	10	12.5	11.7
11	11	13.5	12.2
12	12	14.5	12.7
13	13	15.5	13.2
14	14	16.5	14.7
16	16	18.5	16.7
18	18	20.5	18.7
20	20	22.5	19.7
22	22	24.5	20.7
24	24	26.5	22.7
26	26	28.5	24.7
28	28	30.5	26.7
30	30	32.5	28.7
32	32	34.5	30.7
34	34	36.5	32.7
36	36	38.5	34.7



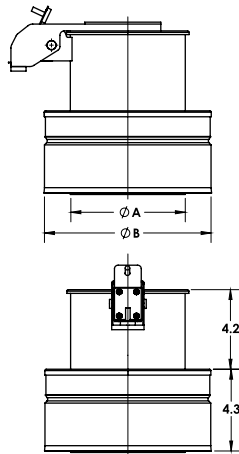
## 30° Termination w/Screen / DWKLØ-30ET

Ø	ØA	ØB	C	D	E
3	3	5.5	9.34	2.49	10.89
4	4	6.5	9.59	2.56	11.39
5	5	7.5	9.84	2.63	11.89
6	6	8.5	10.09	2.70	12.39
7	7	9.5	10.34	2.77	12.89
8	8	10.5	10.59	2.84	13.39
9	9	11.5	10.84	2.91	13.89
10	10	12.5	11.09	2.97	14.39
11	11	13.5	11.34	3.04	14.89
12	12	14.5	11.59	3.10	15.39
13	13	15.5	11.84	3.17	15.89
14	14	16.5	12.09	3.24	16.39
16	16	18.5	12.59	3.37	17.39
18	18	20.5	13.09	3.51	18.39
20	20	22.5	13.59	3.64	19.39
22	22	24.5	14.09	3.77	20.39
24	24	26.5	15.49	3.91	21.39
26	26	28.5	15.09	4.11	22.39
28	28	30.5	15.59	4.25	23.39
30	30	32.5	16.09	4.38	24.39
32	32	34.5	16.59	4.64	25.39
34	34	36.5	17.09	4.91	26.39
36	36	38.5	17.59	5.18	27.39



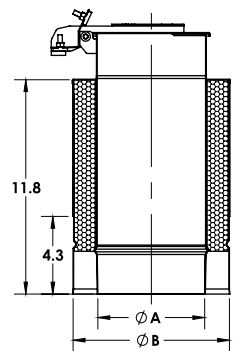
## Engine Flip Top / DWKLØ-EFT

Ø	ØA	ØB
3	3	5.5
4	4	6.5
5	5	7.5
6	6	8.5
7	7	9.5
8	8	10.5
9	9	11.5
10	10	12.5
11	11	13.5
12	12	14.5
13	13	15.5
14	14	16.5
16	16	18.5
18	18	20.5
20	20	22.5
22	22	24.5
24	24	26.5
26	26	28.5
28	28	30.5
30	30	32.5
32	32	34.5
34	34	36.5
36	36	38.5



## Engine Flip Top High Temp / DWKLØ-EFTH

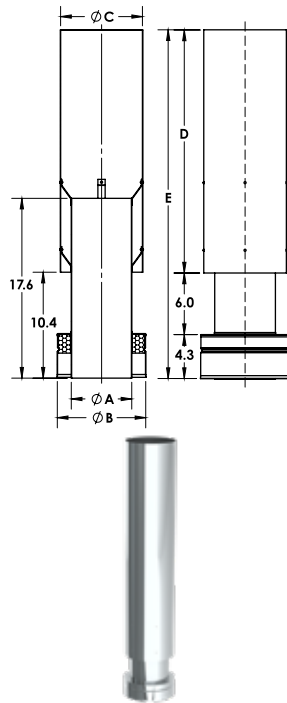
Ø	ØA	ØB
3	3	5.5
4	4	6.5
5	5	7.5
6	6	8.5
7	7	9.5
8	8	10.5
9	9	11.5
10	10	12.5
11	11	13.5
12	12	14.5
13	13	15.5
14	14	16.5
16	16	18.5
18	18	20.5
20	20	22.5
22	22	24.5
24	24	26.5
26	26	28.5
28	28	30.5
30	30	32.5
32	32	34.5
34	34	36.5
36	36	38.5



# TERMINATIONS

## No-Loss Weather Head / DWKLØ-NLWH

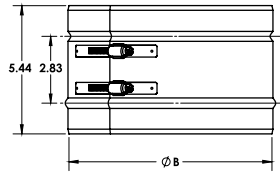
Ø	ØA	ØB	C	D	E	F
3	3	5.5	5	11.5	15.9	2x4
4	4	6.5	6	15.5	19.9	
5	5	7.5	7	19.5	23.9	
6	6	8.5	8	23.5	27.9	
7	7	9.5	9	27.5	31.9	
8	8	10.5	10	31.5	35.9	2x6
9	9	11.5	12	39.5	43.5	
10	10	12.5	14	47.5	51.5	
11	11	13.5	15	47.5	51.5	
12	12	14.5	16	52.9	57.5	
13	13	15.5	17	52.9	57.5	2x8
14	14	16.5	18	61.9	66.5	
16	16	18.5	20	70.9	75.5	
18	18	20.5	22	70.9	75.5	
20	20	22.5	24	70.9	75.5	
22	22	24.5	24	70.9	75.5	2x10
24	24	26.5	26	70.9	75.5	
26	26	28.5	28	72.9	81.5	
28	28	30.5	30	72.9	81.5	
30	30	32.5	32	72.9	81.5	
32	32	34.5	34	72.9	81.5	
34	34	36.5	36	73.9	81.5	
36	36	38.5	38	73.9	81.5	



# ACCESSORIES

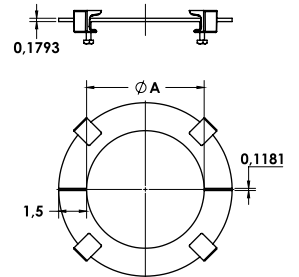
## Locking Band / DWKLØ-LB

Ø	ØB
3	5.5
4	6.5
5	7.5
6	8.5
7	9.5
8	10.5
9	11.5
10	12.5
11	13.5
12	14.5
13	15.5
14	16.5
16	18.5
18	20.5
20	22.5
22	24.5
24	26.5
26	28.5
28	30.5
30	32.5
32	34.5
34	36.5
36	38.5



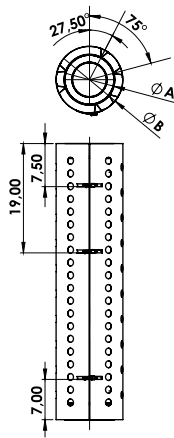
## Flange Collar Kit / DWKLØ-FCK

Ø	ØA	ti/ta
3	D inner pipe + 0.3149"	4
4		
5		
6		
7		
8		
8		5
9		
10		
11		
12		
12		
13		
14		
16		
18		
20		
20	7	
22		
24		
26		
28		
30		
30	8	
32		
34		
36		
36		9
	10	
	11	
	12	
	14	
	16	
	18	
	20	
	22	
	24	



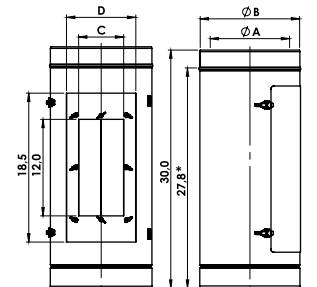
## Heat Shield for DWKL / HSDW

Ø	ØA	ØB	t	Sq. In. Opening	Standoffs
3	Ø A + 3"	0.025	9	90.4	
4				124.3	
5				124.3	
6				124.3	
7				158.2	
8				158.2	
9			192.1	12	
10			192.1		
11			192.1		
12			226		
13			226		
14			259.9		
16	293.8				
18	293.8				
20	327.7				
22	361.6				
24	361.6				
26					
28					
30					
32					
34					
36					



## Inline Access Door / DWKLØ-IAD

Ø	ØA	ØB	C	D
3	3	5.5	2.1	5.5
4	4	6.5	2.2	6.5
5	5	7.5	2.4	7.2
6	6	8.5	3.3	7.6
7	7	9.5	3.3	8.0
8	8	10.5	3.4	8.2
9	9	11.5	3.4	8.4
10	10	12.5	5.5	10.2
11	11	13.5	5.5	10.5
12	12	14.5	5.6	10.7
13	13	15.5	5.6	10.8
14	14	16.5	5.7	10.9
16	16	18.5	5.7	11.2
18	18	20.5	5.8	11.3
20	20	22.5	8.7	13.9
22	22	24.5	8.8	14.1
24	24	26.5	8.8	14.2
26	26	28.5	10.7	15.9
28	28	30.5	10.8	15.10
30	30	32.5	10.8	17.5
32	32	34.5	13.7	19.3
34	34	36.5	13.8	19.4
36	36	38.5	13.8	20.1

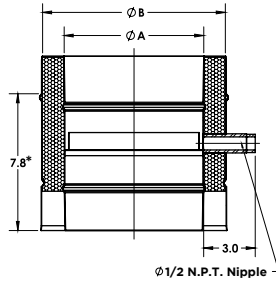


\* Installed length

# ACCESSORIES

## Universal Drain Length / DWKLØ-UDL

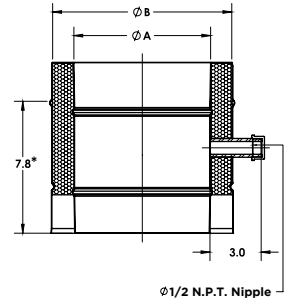
Ø	ØA	ØB
3	3	5.5
4	4	6.5
5	5	7.5
6	6	8.5
7	7	9.5
8	8	10.5
9	9	11.5
10	10	12.5
11	11	13.5
12	12	14.5
13	13	15.5
14	14	16.5
16	16	18.5
18	18	20.5
20	20	22.5
22	22	24.5
24	24	26.5
26	26	28.5
28	28	30.5
30	30	32.5
32	32	34.5
34	34	36.5
36	36	38.5



\* Installed length

## Test and Nozzle Port Length / DWKLØ-TPL

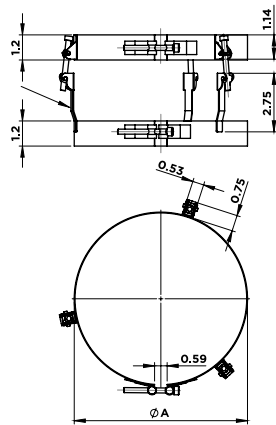
Ø	ØA	ØB
3	3	5.5
4	4	6.5
5	5	7.5
6	6	8.5
7	7	9.5
8	8	10.5
9	9	11.5
10	10	12.5
11	11	13.5
12	12	14.5
13	13	15.5
14	14	16.5
16	16	18.5
18	18	20.5
20	20	22.5
22	22	24.5
24	24	26.5
26	26	28.5
28	28	30.5
30	30	32.5
32	32	34.5
34	34	36.5
36	36	38.5



\* Installed length

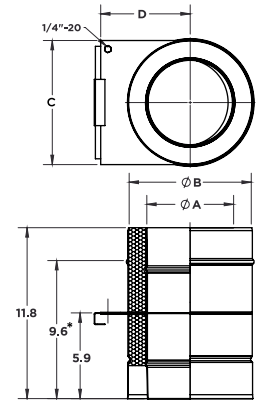
## SWKL Clamp / SWKL-KLC

Ø	ØA
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
16	16
18	18
20	20
22	22
24	24
26	26
28	28
30	30
32	32
34	34
36	36



## Balancing Baffle Length / ØDWKL-BBL

Ø	ØA	ØB	C	D
3	3	5.5	5.6	4.7
4	4	6.5	6.6	5.2
5	5	7.5	7.6	5.7
6	6	8.5	8.6	6.2
7	7	9.5	9.6	6.7
8	8	10.5	10.6	7.2
9	9	11.5	11.6	7.7
10	10	12.5	12.6	8.2
11	11	13.5	13.6	8.7
12	12	14.5	14.6	9.2
13	13	15.5	15.6	9.7
14	14	16.5	16.6	10.2
16	16	18.5	18.6	11.2
18	18	20.5	20.6	12.2
20	20	22.5	22.6	13.2
22	22	24.5	24.6	14.2
24	24	26.5	26.6	15.2
26	26	28.5	28.6	16.2
28	28	30.5	30.6	17.2
30	30	32.5	32.6	18.2
32	32	34.5	34.6	19.2
34	34	36.5	36.6	20.2
36	36	38.5	38.6	21.2

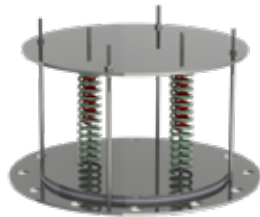
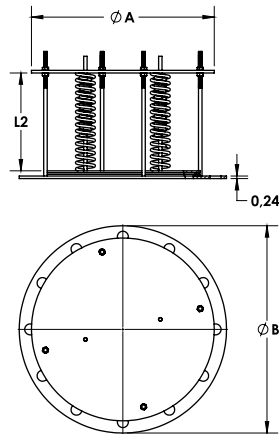


\* Installed length

# ACCESSORIES

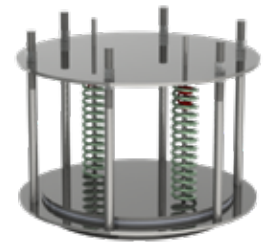
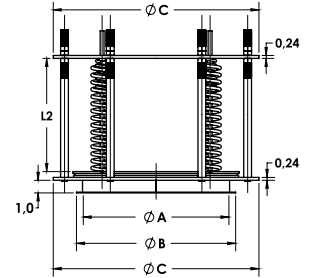
## Pressure Relief Valve ANSI Flange / DWKLØ-PRV

Ø	ØA	ØB	L2
3	6.5	7.5	10.69
4	7.5	9	10.48
5	8.5	10	10.20
6	9.5	11	9.86
8	12.5	13.5	9.06
10	14	16	7.97
12	16.5	19	8.89
14	18.5	21	8.45
16	20.5	23.5	8.79
18	22.5	25	8.20
20	24.5	27.5	7.53
24	28.5	32	7.26

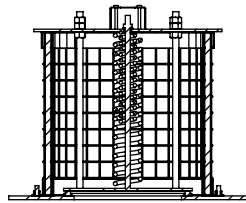


## Pressure Relive Valve with Rolled Flange / DWKLØ-PRVR

Ø	ØA	ØB	ØC	L2
3	3	4	6.5	10.69
4	4	5	7.5	10.48
5	5	6	8.5	10.20
6	6	7	9.5	9.86
8	8	9	12.5	9.06
10	10	11	14	7.97
12	12	13	16.5	8.89
14	14	15	18.5	8.45
16	16	17	20.5	8.79
18	18	19	22.5	8.20
20	20	21	24.5	7.53
24	24	25	28.5	7.26



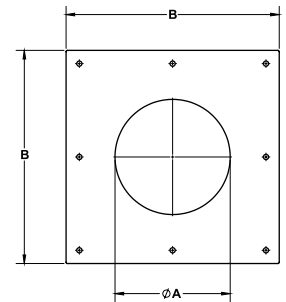
## Flame Retardant Pressure Relive Valve / DWKLØ-PRVF



## Firestop Spacer / DWKLØ-FS

Ø	I.D	ØA	ØB	t
3	3	5.5		
4	4	6.5		
5	5	7.5		
6	6	8.5		
7	7	9.5		
8	8	10.5		
9	9	11.5		
10	10	12.5		
11	11	13.5		
12	12	14.5		
13	13	15.5		
14	14	16.5		
16	16	18.5		
18	18	20.5		
20	20	22.5		
22	22	24.5		
24	24	26.5		
26	26	28.5		
28	28	30.5		
30	30	32.5		
32	32	34.5		
34	34	36.5		
36	36	38.5		

I.D + 10"  
0.025



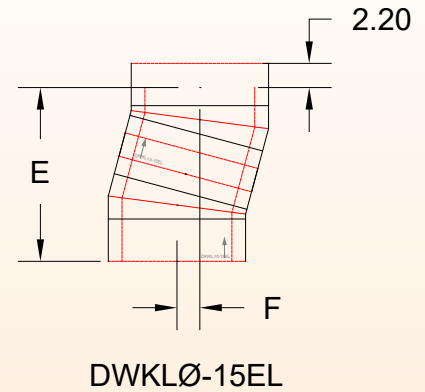


# OFFSET TABLES

## DWKLØ-15EL

PART NUMBER	DIM - A Ø	DIM - B Ø	DIM - C	DIM - D*	DIM - E*	DIM - F
	INNER	OUTER	RISE	RUN	COMBINED HEIGHT	COMBINED OFFSET
DWKL3-15EL	3	5,5	4,5	3,2	14	1,85
DWKL4-15EL	4	6,5	4,7	3,3	14,26	1,88
DWKL5-15EL	5	7,5	4,77	3,56	14,52	1,91
DWKL6-15EL	6	8,5	4,83	3,78	14,78	1,94
DWKL7-15EL	7	9,5	4,9	3,97	15,04	1,97
DWKL8-15EL	8	10,5	4,96	4,16	15,3	2
DWKL9-15EL	9	11,5	5,03	4,36	15,56	2,03
DWKL10-15EL	10	12,5	5,09	4,55	15,82	2,06
DWKL11-15EL	11	13,5	5,16	4,74	16,08	2,09
DWKL12-15EL	12	14,5	5,23	4,94	16,34	2,12
DWKL13-15EL	13	15,5	5,29	5,13	16,6	2,15
DWKL14-15EL	14	16,5	5,35	5,32	16,86	2,18
DWKL16-15EL	16	18,5	5,42	5,71	17,38	2,24
DWKL18-15EL	18	20,5	5,56	6,09	17,9	2,3
DWKL20-15EL	20	22,5	5,59	6,48	18,42	2,36
DWKL22-15EL	22	24,5	5,82	6,87	18,94	2,42
DWKL24-15EL	24	26,5	5,95	7,25	19,46	2,48
DWKL26-15EL	26	28,5	6,21	7,64	19,98	2,56
DWKL28-15EL	28	30,5	6,35	8,02	20,5	2,6
DWKL30-15EL	30	32,5	6,48	8,41	21,02	2,66
DWKL32-15EL	32	34,5	6,61	8,8	21,54	2,72
DWKL34-15EL	34	36,5	6,74	9,18	22,06	2,78
DWKL36-15EL	36	38,5	6,84	9,57	22,58	2,84

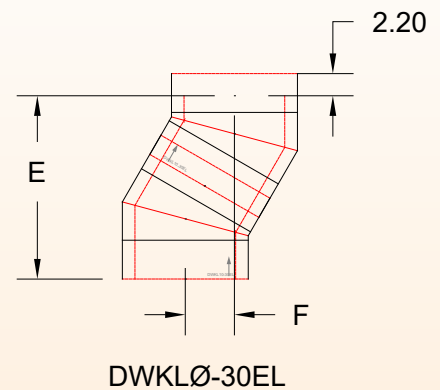
\* Installed length



## DWKLØ-30EL

PART NUMBER	DIM - A Ø	DIM - B Ø	DIM - C	DIM - D*	DIM - E*	DIM - F
	INNER	OUTER	RISE	RUN	COMBINED HEIGHT	COMBINED OFFSET
DWKL3-30EL	3	5,5	5,08	2,8	14,69	3,94
DWKL4-30EL	4	6,5	5,22	2,93	15,19	4,07
DWKL5-30EL	5	7,5	5,35	3,07	15,69	4,2
DWKL6-30EL	6	8,5	5,48	3,2	16,19	4,34
DWKL7-30EL	7	9,5	5,62	3,33	16,69	4,47
DWKL8-30EL	8	10,5	5,75	3,47	17,19	4,61
DWKL9-30EL	9	11,5	5,89	3,6	17,69	4,74
DWKL10-30EL	10	12,5	6,02	3,74	18,19	4,87
DWKL11-30EL	11	13,5	6,16	3,87	18,69	5,01
DWKL12-30EL	12	14,5	6,29	4,01	19,19	5,14
DWKL13-30EL	13	15,5	6,43	4,14	19,69	5,27
DWKL14-30EL	14	16,5	6,56	4,27	20,19	5,41
DWKL16-30EL	16	18,5	6,82	4,51	21,19	5,68
DWKL18-30EL	18	20,5	7,09	4,81	22,19	5,95
DWKL20-30EL	20	22,5	7,36	5,07	23,19	6,21
DWKL22-30EL	22	24,5	7,63	5,34	24,19	6,48
DWKL24-30EL	24	26,5	7,9	5,61	25,19	6,75
DWKL26-30EL	26	28,5	8,16	5,88	26,19	7,02
DWKL28-30EL	28	30,5	8,43	6,14	27,19	7,29
DWKL30-30EL	30	32,5	8,7	6,41	28,19	7,56
DWKL32-30EL	32	34,5	8,97	6,68	29,19	7,83
DWKL34-30EL	34	36,5	9,24	6,95	30,19	8,1
DWKL36-30EL	36	38,5	9,5	7,22	31,19	8,37

\* Installed length

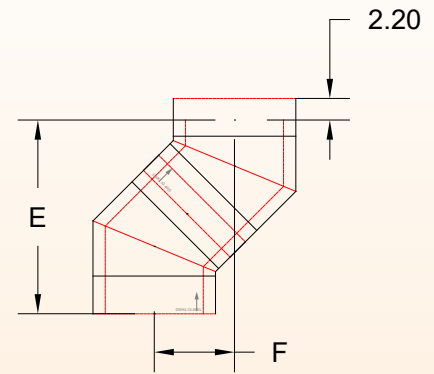


# OFFSET TABLES

## DWKLØ-45EL

PART NUMBER	DIM - A Ø	DIM - B Ø	DIM - C	DIM - D*	DIM - E*	DIM - F
	INNER	OUTER	RISE	RUN	COMBINED HEIGHT	COMBINED OFFSET
DWKL3-45EL	3	5,5	5,49	3,21	14,81	6,33
DWKL4-45EL	4	6,5	5,7	3,41	15,52	6,43
DWKL5-45EL	5	7,5	5,91	3,62	16,27	6,67
DWKL6-45EL	6	8,5	6,11	3,83	16,93	7,01
DWKL7-45EL	7	9,5	6,32	4,04	17,64	7,4
DWKL8-45EL	8	10,5	6,53	4,24	18,35	7,6
DWKL9-45EL	9	11,5	6,74	4,45	19,05	7,89
DWKL10-45EL	10	12,5	6,94	4,66	19,76	8,18
DWKL11-45EL	11	13,5	7,01	4,98	20,78	8,73
DWKL12-45EL	12	14,5	7,07	5,36	21,17	8,77
DWKL13-45EL	13	15,5	7,35	5,41	21,8	9,07
DWKL14-45EL	14	16,5	7,77	5,49	22,59	9,36
DWKL16-45EL	16	18,5	8,18	5,9	24	9,94
DWKL18-45EL	18	20,5	8,6	6,31	25,42	10,53
DWKL20-45EL	20	22,5	9,01	6,73	26,83	11,11
DWKL22-45EL	22	24,5	9,43	7,14	28,24	11,7
DWKL24-45EL	24	26,5	9,84	7,56	29,66	12,29
DWKL26-45EL	26	28,5	10,33	7,97	31,08	12,88
DWKL28-45EL	28	30,5	10,75	8,38	32,5	13,47
DWKL30-45EL	30	32,5	11,16	8,8	33,92	14,06
DWKL32-45EL	32	34,5	11,58	9,21	25,34	14,65
DWKL34-45EL	34	36,5	11,99	9,63	26,76	15,24
DWKL36-45EL	36	38,5	12,41	10,04	28,18	15,83

\* Installed length

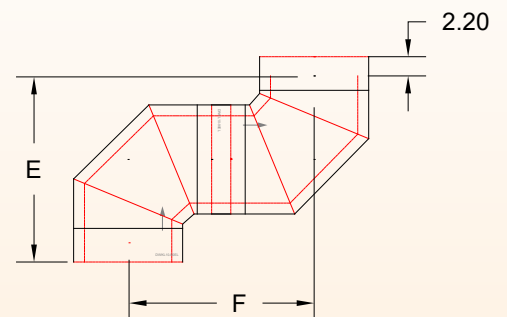


DWKLØ-45EL

## DWKLØ-90EL

PART NUMBER	DIM - A Ø	DIM - B Ø	DIM - C	DIM - D*	DIM - E*	DIM - F
	INNER	OUTER	RISE	RUN	COMBINED HEIGHT	COMBINED OFFSET
DWKL3-90EL	3	5,5	8,25	5,96	14,21	14,21
DWKL4-90EL	4	6,5	8,75	6,46	15,21	15,21
DWKL5-90EL	5	7,5	9,25	6,96	16,21	16,21
DWKL6-90EL	6	8,5	9,75	7,46	17,21	17,21
DWKL7-90EL	7	9,5	10,25	7,96	18,21	18,21
DWKL8-90EL	8	10,5	10,75	8,45	19,21	19,21
DWKL9-90EL	9	11,5	11,25	8,96	20,21	20,21
DWKL10-90EL	10	12,5	11,75	9,46	21,21	21,21
DWKL11-90EL	11	13,5	12,25	9,96	22,21	22,21
DWKL12-90EL	12	14,5	12,75	10,46	23,21	23,21
DWKL13-90EL	13	15,5	13,25	10,96	24,21	24,21
DWKL14-90EL	14	16,5	13,75	11,46	25,21	25,21
DWKL16-90EL	16	18,5	14,75	12,46	27,21	27,21
DWKL18-90EL	18	20,5	15,75	13,46	29,21	29,21
DWKL20-90EL	20	22,5	16,75	14,46	31,21	31,21
DWKL22-90EL	22	24,5	17,75	15,46	33,21	33,21
DWKL24-90EL	24	26,5	18,75	16,46	35,21	35,21
DWKL26-90EL	26	28,5	19,75	17,46	37,21	37,21
DWKL28-90EL	28	30,5	20,75	18,46	39,21	39,21
DWKL30-90EL	30	32,5	21,75	19,46	41,21	41,21
DWKL32-90EL	32	34,5	22,75	20,46	43,21	43,21
DWKL34-90EL	34	36,5	23,75	21,46	45,21	45,21
DWKL36-90EL	36	38,5	24,75	22,46	47,21	47,21

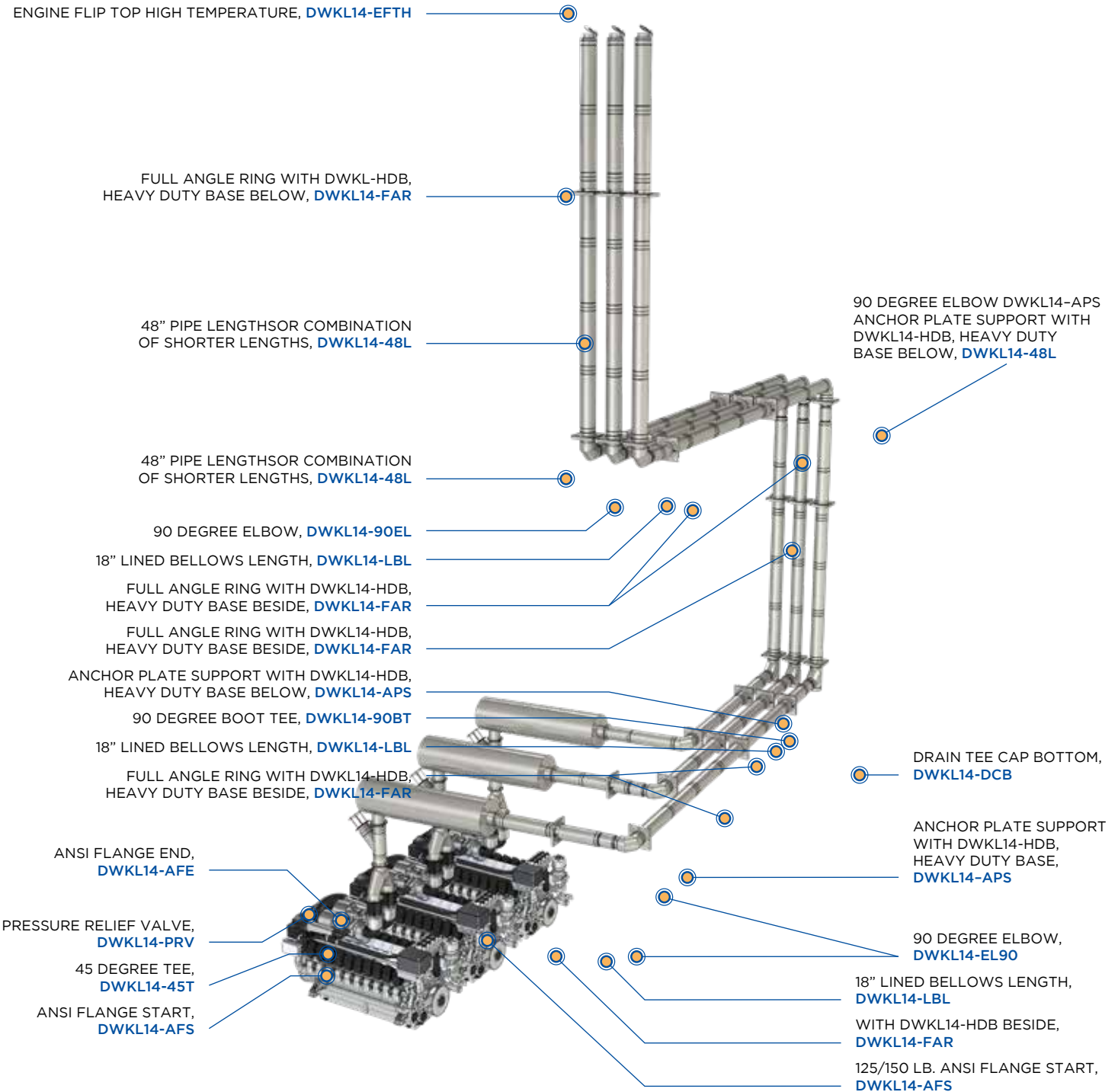
\* Installed length



DWKLØ-90EL

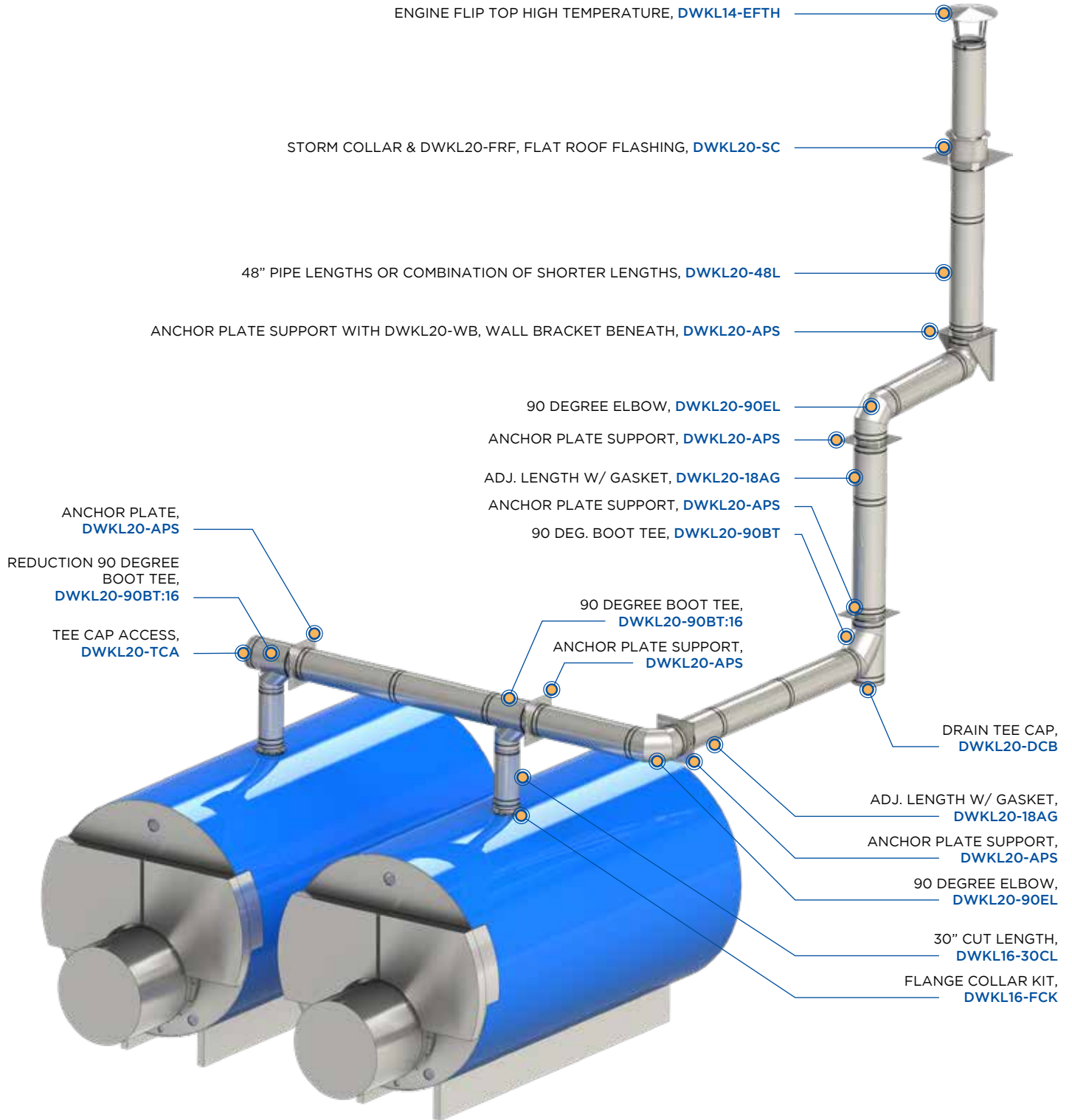
# SAMPLE 1 - DWKL ENGINE EXHAUST

## THREE (3) 14" I.D. / 16 1/2" O.D. EXHAUST SYSTEMS



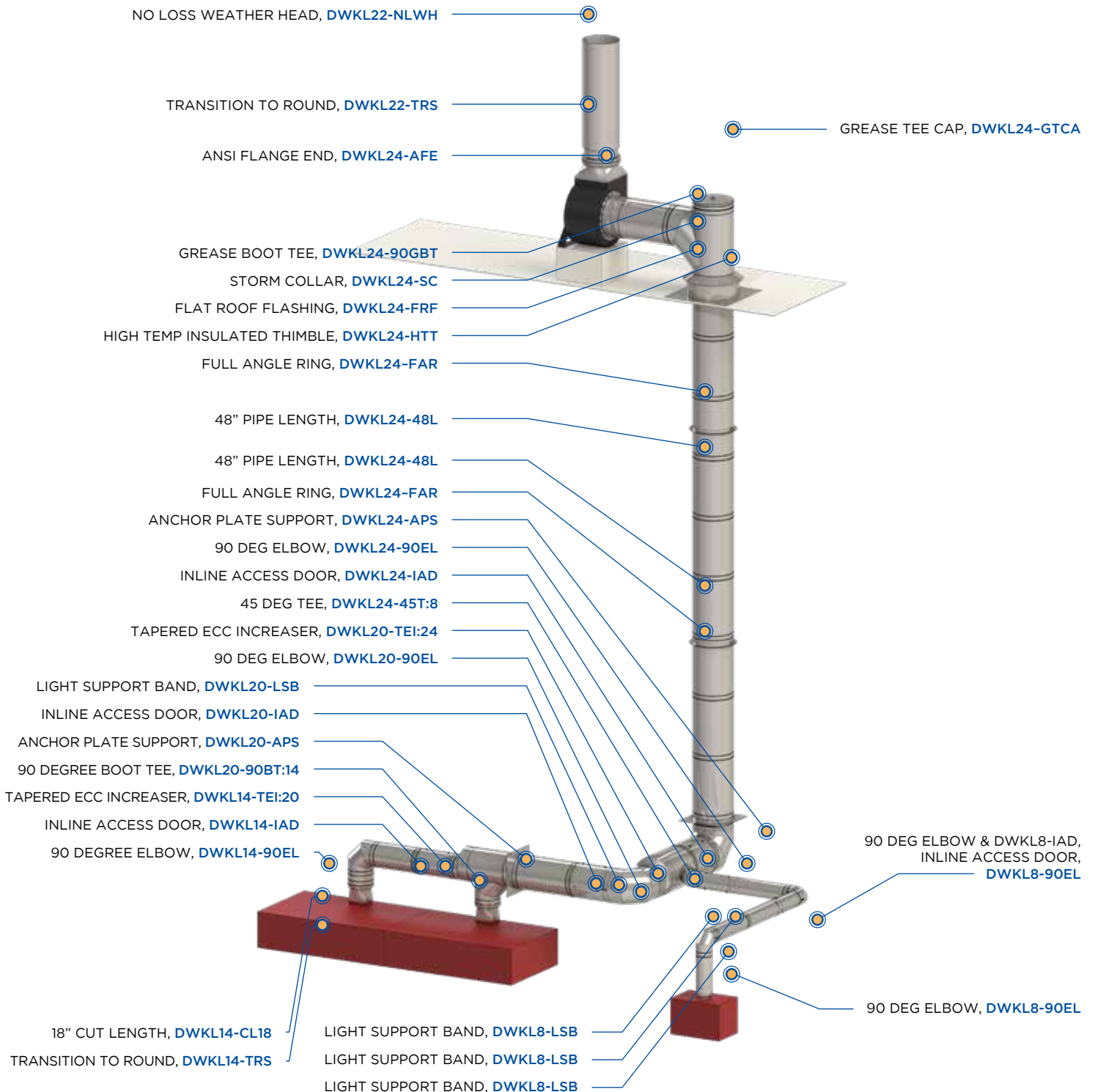
# SAMPLE 2 - DWKL BOILER STACK

TWO (2) 16" I.D. INTO 20" I.D. / 22 1/2" O.D. STACK



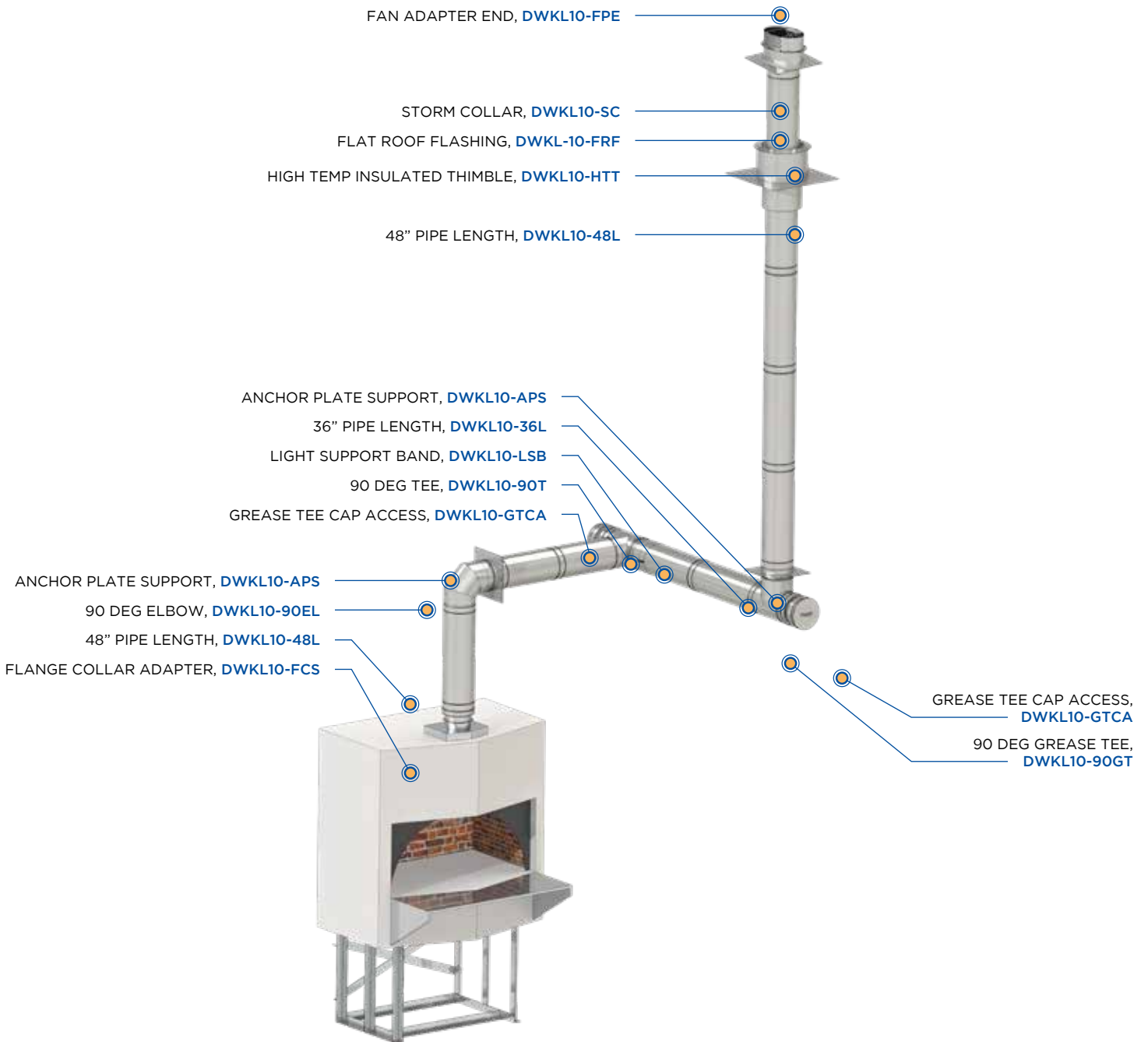
# SAMPLE 3 - DWKL COMMERCIAL GREASE DUCT

2X 14", INTO 20", 1X 8", INTO COMMON 24" GREASE DUCT



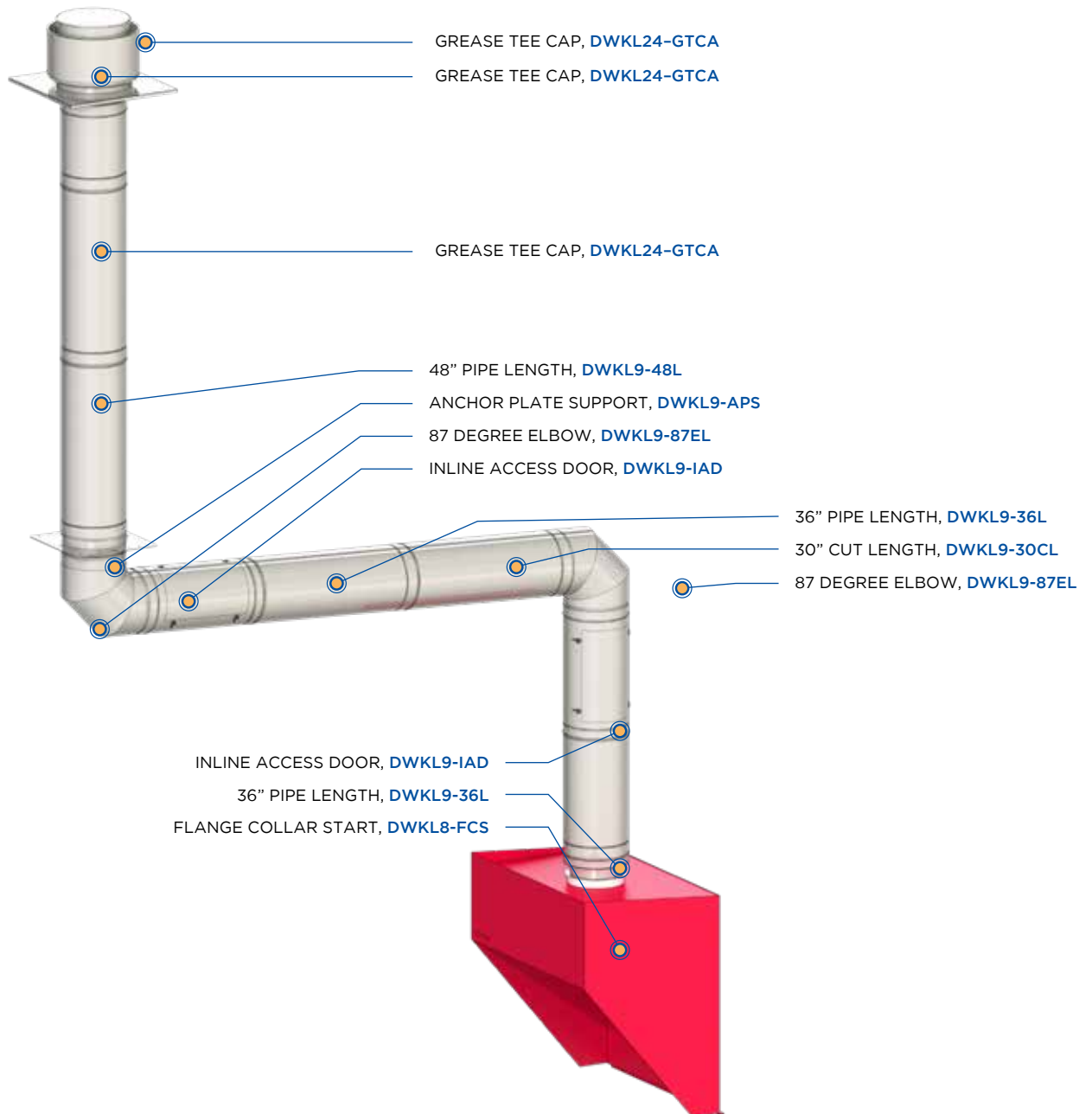
# SAMPLE 4 - DWKL PIZZA OVEN CHIMNEY & GREASE DUCT

10" I.D. / 12½" O.D. CHIMNEY AND GREASE DUCT



# SAMPLE 5 - DWKL STAND-ALONE RESTAURANT EXHAUST

9" I.D. / 11½" O.D. GREASE DUCT FROM WALL MOUNTED TYPE I HOOD



# WARRANTY STATEMENT

## I. 1-Year Limited Warranty

Jeremias Inc. (“Jeremias”) provides a 1-year limited warranty (“1-Year Limited Warranty”) for its Universal Stacks and Exhaust Systems models SWKL and DWKL (collectively, the “Products”) for any defect in workmanship or materials under normal use from the date of shipment to the purchaser of Products (“Purchaser”), subject to the following conditions:

- > Product sizing and specifications have been performed in accordance with generally accepted engineering practices.
- > Correct installation and maintenance in full compliance with Jeremias’ installation and maintenance instructions as published at the time of installation.

## II. Extended 25-Year Limited Warranty

Jeremias provides for an extended 25-year limited warranty (“25-Year Limited Warranty”) for any defect in workmanship or materials under normal use from the date of shipment to the Purchaser, subject to the satisfaction of the following conditions:

- > Products must have been designed and sized by Jeremias’ personnel.
- > Availability of a written inspection report from the time of installation, or timely thereafter, by a Jeremias inspector or an inspector authorized by Jeremias, that the Product assembly and installation conformed to all of Jeremias’ assembly and installation instructions.
- > Products were at all times operated and maintained in full compliance with Jeremias’ operation and maintenance instructions as published at the time of installation or as later provided to Purchaser by Jeremias.

## III. Exclusion of Limited Warranty

The 1-Year Limited Warranty and the 25-Year Limited Warranty (collectively the “Limited Warranty”) shall not cover (i) damages to:

wear parts, e.g. seals; demonstration units; paintwork; moving parts, including but not limited to compensators, flue gas dampers, draught regulators, chimney, doors; flexible piping; insulation; consumables, such as granulates; minor Product deviations which do not effect functionality; or (ii) damages caused by: contamination of ambient air or combustion air by chlorinated hydrocarbons or other vapors which may cause excessively severe acid condensate to form within the Products; merchandise provided by other manufacturers; installation, transport or commissioning; Purchaser, an installer or other third parties; normal wear and tear; any party other than Jeremias in a willful manner; force majeure, including, but not limited to flood, fire or frost; non-compliance with the assembly, installation, operation and maintenance instructions available at [www.JeremiasInc.com](http://www.JeremiasInc.com); assembly, installation, maintenance or repair by unqualified personnel; improper commissioning; use of Products not in accordance with their intended purpose; exposure of Products to any metals of an inferior quality; contamination of the Products between unpacking and assembly; burning of wood other than unpainted, natural wood, which has been stored for at least 3 years and which moisture level does not exceed 20%; or burning of chipboard or domestic waste.

## IV. Remedies

If a valid Limited Warranty claim arises, Jeremias shall, in its sole discretion, either repair the Product or deliver a properly functioning Product. This Limited Warranty is limited to repair or replacement of the Product plus shipping cost to the location of the defective Product. The Limited Warranty does not cover labor costs for removal or replacement of the defective Product, unless such labor shall be carried out by Jeremias itself in its sole discretion.

## V. Filing of a Limited Warranty Claim

Limited Warranty claims may only be asserted during the term of the applicable Limited Warranty period. Any extension of the term of the Limited Warranties shall be excluded, regardless of the legal basis. If Purchaser believes that there is a justified Limited Warranty claim, Purchaser shall notify Jeremias to that effect in writing. Any claims stemming from or relating to a Limited Warranty shall be asserted in detail within eight weeks after the discovery of the defect (the time when the notification is received by Jeremias will be the basis for determining whether a claim has been reported within this deadline) or else shall be excluded and not be recognized by Purchaser. Such notification shall include a description of the defect, original proof of purchase, and a copy of the written inspection report as described in Section II above (if applicable).

## VI. No Other Warranty

EXCEPT AS SET FORTH EXPRESSLY THEREIN, JEREMIAS MAKES NO WARRANTIES, EITHER EXPRESS OR IMPLIED, REGARDING THE PRODUCTS, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

## VII. Damages Disclaimer and Limitation

IN NO EVENT SHALL JEREMIAS BE LIABLE TO ANY CLIENT OR ANY OTHER PERSON FOR ANY (A) INDIRECT, INCIDENTAL, CONSEQUENTIAL OR PUNITIVE DAMAGES, INCLUDING LOSS OF PROFIT OR GOODWILL OR (B) DIRECT DAMAGES TO BODY, HEALTH OR PROPERTY FOR ANY MATTER ARISING OUT OF OR RELATING TO THE PRODUCTS, WHETHER SUCH LIABILITY IS ASSERTED ON THE BASIS OF CONTRACT, TORT OR OTHERWISE EVEN IF JEREMIAS HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. IN NO EVENT SHALL JEREMIAS’ TOTAL AGGREGATE LIABILITY FOR DAMAGES EXCEED THE GREATER OF THE AMOUNT OF (A) TOTAL COMPENSATION PAID BY PURCHASER TO JEREMIAS FOR THE PRODUCTS, OR (B) PROCEEDS AVAILABLE FROM ANY INSURANCE POLICY IN EFFECT AND APPLICABLE TO THE EVENT GIVING RISE TO SUCH LIABILITY.

## VIII. Notice

Any notice or other communication hereunder to Jeremias shall be sent postage prepaid, by certified mail, by courier such as United Parcel Service or e-mail, to the following: Jeremias Inc., 983 Industrial Park Drive, Marietta, GA 30062, E-mail: [Info@JeremiasInc.com](mailto:Info@JeremiasInc.com). Notices shall be effective upon receipt.

## IX. Terms and Conditions of Sale

Purchaser’s Terms and Conditions of Sale as currently in effect shall govern these Limited Warranties, including without limitation the rights and responsibilities granted hereunder.









## PRODUCTION SITES

### USA

Jeremias Inc.  
983 Industrial Park Drive  
Marietta, GA 30062, USA  
phone: +1 678 388 2740  
e-mail: info@jeremiasinc.com  
www.jeremiasinc.com

### GERMANY

www.jeremias.de

### POLAND

www.jeremias.pl

### SPAIN

www.jeremias.com.es

### RUSSIA

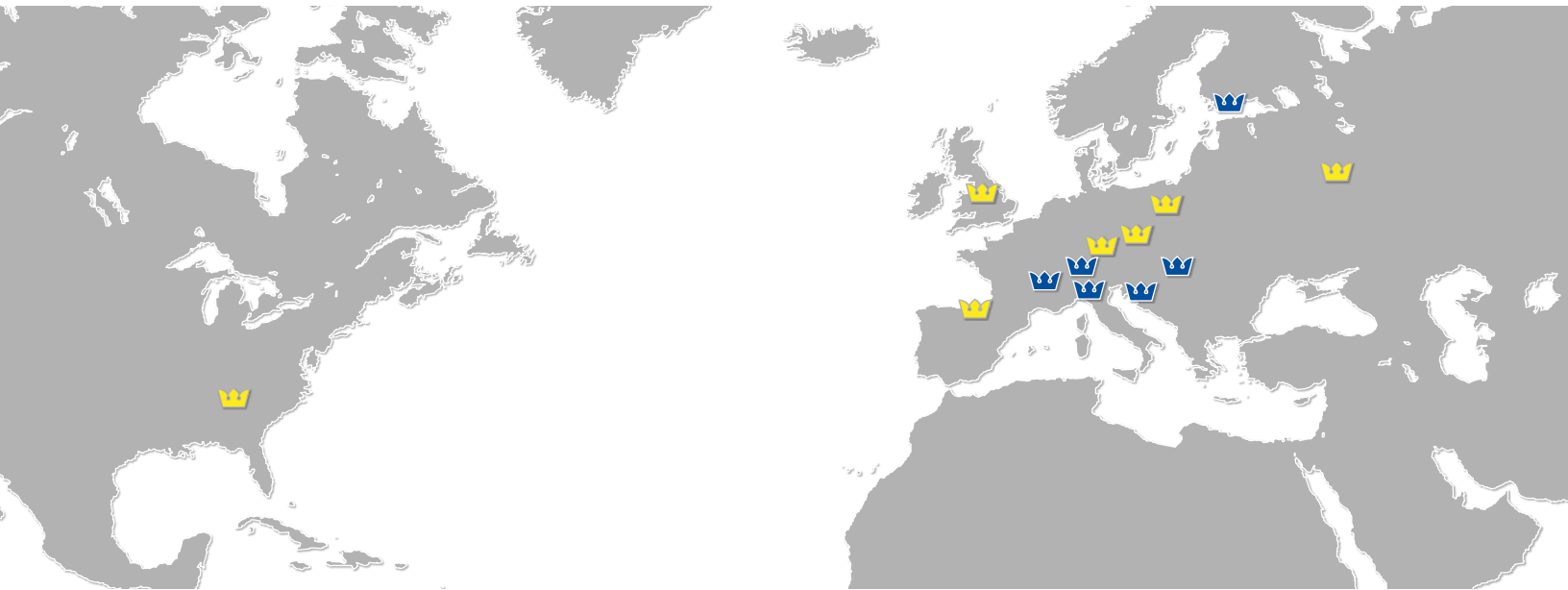
www.jeremias.ru

### CZECH REPUBLIC

www.jeremias.cz

### UNITED KINGDOM

www.jeremias.uk



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## JEREMIAS IS REPRESENTED IN THE FOLLOWING COUNTRIES:

Austria | Belarus | Belgium | Bulgaria | Brazil | Denmark | Estonia | Hong Kong | Ireland | Kazakhstan | Latvia | Lithuania | Luxembourg | Malta | Netherlands | Norway | Portugal | Romania | Saudi Arabia | Serbia | Singapore | Slovakia | Slovenia | South Africa | Sweden | Tunisia | UAE | Ukraine

The expert in your area:

Jeremias high quality products to be installed only by selected experts.