



STOCK CATALOG

Double Wall Special Gas Vent Ø4" - Ø16"

www.jeremiasinc.com



JEREMIAS CONTENTS

STOCK DWGV - Double Special Gas Vent

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JEREMIAS EXHAUST SYSTEMS

Jeremias Special Gas Vents, Models DWGV and SWGV, were designed specifically for the condensing boiler market where ease of assembly, overall time invested, and price are the main concerns. Unlike our other products, this Special Gas Vent does not have a conical joint. In diameters up to 12", it uses a gasket to seal the male-to-female connection and is secured by a locking band on the outside. In diameters 14"-16", it utilizes a male-to-female connection with a V-band and sealant on the inside connection and a Locking band on the outside jacket.

For use with temperatures not exceeding 550°F continuous and pressures not exceeding 20" W.C.

DWGV and SWGV may be intermixed in the same vent system assuming proper clearances and other installation guidelines are maintained for each system. Each may also be intermixed with the DWKL/SWKL Conical systems and/or the DWFL/SWFL Flanged systems.

Jeremias Special Gas Vents are also used for exhausting various other appliances to the outdoors. There are many other applications and uses including, but not limited to the following: boiler stacks, dishwasher exhaust, cool exhaust on coffee roasters, chimney liners, laundry dryer vents, fume venting, paint booth exhausts, particle conveying, chutes, and ventilation ducts.



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 complemented 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 is now also manufactured in the USA from 100% local materials!

JEREMIAS EXHAUST SYSTEMS

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.

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

Jeremias incorporates a UL 1738 approved stainless steel which is required to provide adequate corrosion resistance to flue gas condensation for our inner liner. Underwriters Laboratories (UL) has approved Jeremias (and all other brands) to use types 316L, 444, or AL29-4C° stainless steels for this Listing. These steels have various advantages over the others in this group including better forming, welding, and lower work hardening. The standard model Jeremias outer jacket is constructed of type 304 stainless steel with a bright annealed finish. 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 a Twenty-Five (25) Year Standard Warranty.

Ease of Installation

Models DWGV and SWGV (3"-12" I.D.) are a cylindrical, factory-built, modular venting system that incorporates a 2.2" overlap and sealed with a 3-ribbed gasket for a for quick and easy assembly in the field. The 2.2" overlap at each connection creates greater stiffness, sealing, and durability compared to ½" flange to flange systems or other gasketed systems. For example, 6" I.D. DWGV has a 41.45 square inch overlap at each joint where a ½" flanged system has only a 9.42 square inch overlap.

The larger diameters (13"-36") of DWGV and SWGV incorporate an overlapping male-to-female inner connection with external rolled flange for vee band connection. The overlapping inner involves a male spigot which extends completely through the joint 1.25" into the adjacent pipe section. This extended male spigot facilitates alignment of

WE AS MANUFACTURER GRANT YOU

25

YEARS

OF WARRANTY ON THE CORROSION RESISTANCE OF OUR STAINLESS STEEL PRODUCTS.

For the pre-conditions please view our General Terms of Guarantee on www.jeremias.de.

pipe sections, provides support, and isolates the flange/V-band connection and sealant from flue gas condensation. Then the outer jacket of the DWGV is attached with a locking band which securely locks into grooves on both sections of pipe. This makes for the strongest and most rigid joint in the industry.



TECHNICAL SPECIFICATIONS

Model and Part Identifications

DWGV, Double Wall Gas Vent (Ø4"-Ø12") 1" insulating air space (Ø14"-Ø16") 1.25" insulating air space

SWGV, Single Wall Gas Vent (Ø3"-Ø16")

Example 1:

DWGV8-36L for an 8 inch diameter Model DWGV Double Wall, airspace insulated, 36 inches in length

Example 2:

SWGV10-45EL for a 10 inch diameter Model SWGV Single > ULC S609 Standard for Low-Temperature Vents Type L Wall 45 Degree Elbow

Appliances, Categories II, III and IV

- > Class IIC & IIB PP (Polypropylene), CPVC, and/or PVC applications at 230°F and/or 194°F maximum flue gas temperatures and zero clearance to combustibles
- > UL 441 Standard, Gas Vents
- > UL 641 Standard, Type L Low-Temperature Vent

Canada:

- > ULC S636 Standard for Type BH Gas Venting Systems
- > Class IIC & IIB PP (Polypropylene), CPVC, and/or PVC applications at 230°F and/or 194°F maximum flue gas temperatures and zero clearance to combustibles
- > ULC S605 Standard for Gas Vents

Material Options and Thicknesses

DWGV

Inner Liner:

Type 316L or 444 UL 1738 approved stainless steel

Outer Jacket:

Type 304 stainless steel with a Bright Annealed finish

Insulation:

1" of air space

Accessories and Supports:

Type 304 stainless steel

SWGV

Inner Liner:

Type 316L or 444 UL 1738 approved stainless steel

Operating Pressures

Jeremias Inc. Gas Vents, Models DWGV and SWGV have been evaluated and Listed by UL for positive pressures up to 20" W.C. internal static pressure.

Underwriters Laboratories Listings

UL File Number for All Listings: MH59917

United States:

> UL 1738 Standard, Venting Systems for Gas-Burning

TECHNICAL SPECIFICATIONS

Code and Standards

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

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)

Joint Detail

All Jeremias Inc. Gas Vents Models DWGV and SWGV in 3" - 12" diameters are cylindrical, factory-built, modular

venting systems that incorporate a lengthy 2.2" overlapping joint with gasket and locking band system for quick and easy assembly in the field. The larger diameters (13"-36") incorporate an overlapping inner connection with external rolled flange for vee band connection. The overlapping inner protects the silicone seal from flue gas condensation.

The DWGV double wall models are insulated with 1" air space.

Benefits of the Jeremias double wall 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

The SWGV single wall model has no outer jacket.

Benefits of the Jeremias single wall systems include:

- a) Fast assembly
- b) Clean and neat assembled joint
- c) Low cost alternative when clearance to combustibles can be maintained



TECHNICAL SPECIFICATIONS

Product Specifications

DIAMETERS	4, 6, 8, 10, 12, 14, 16
AVAILABLE LENGTHS	12", 18", 24", 36", 48"
AVAILABLE FITTINGS	Any elbow or tee, over 20 catalog fittings per each diameter
AVAILABLE ACCESSORIES	All-stainless supports, guides, hangers, and adapters

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.

Submittal and Warranted Designs

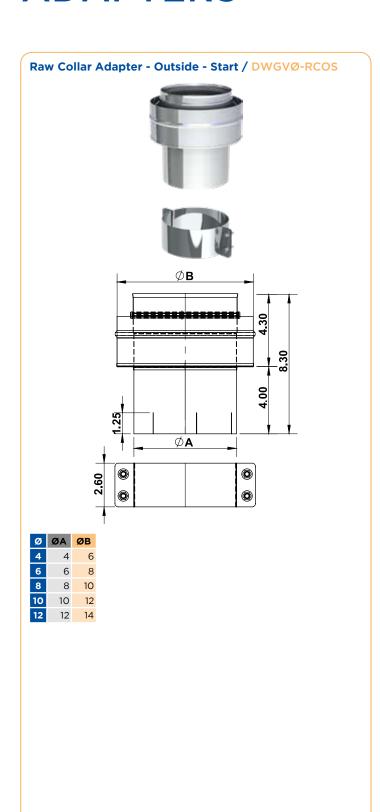
Jeremias can also provide submittals that show all required accessories, including drains, supports etc., to be in accordance with any specific appliance manufacturers' installation instructions.



Pipe Weight per Foot

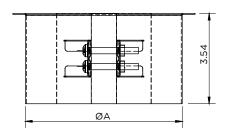
The approximate installed weight of the DWGV exhaust system can be found using this table. This table does not include accessories such as supports and guides, nor shipping packaging or palletizing weight (LBS per foot).

PIPE SIZE	WEIGHT (LBS. PER FT.)
4"	1.9
6"	2.5
8"	3.2
10"	4.0
12"	4.7
14"	12.0
16"	13.5



Raw Collar Outside Adapter / DWGVØ-RCO





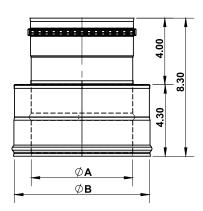


Includes Locking Band with Latch Clamp

 $\ensuremath{^*}$ - Installed lengths. Includes Locking Band with gear Clamp.

DWGV to **SWGV** Adapter / **DWGVØ-D2S**



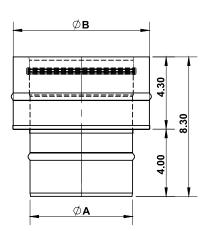




Includes Locking Band with gear Clamp

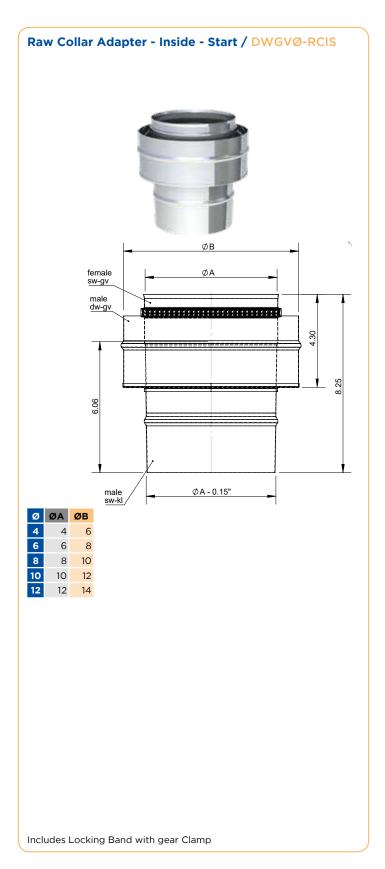


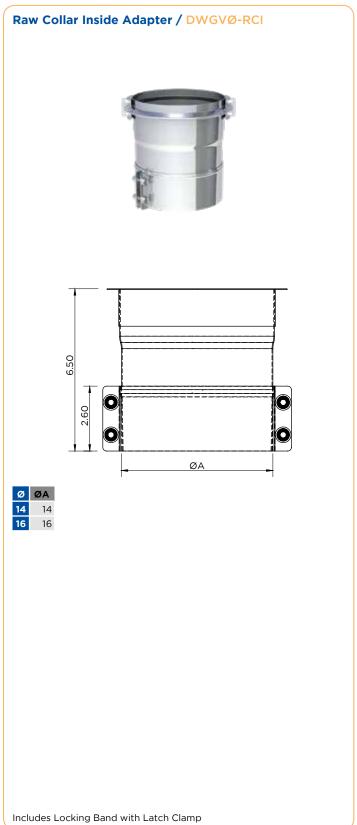


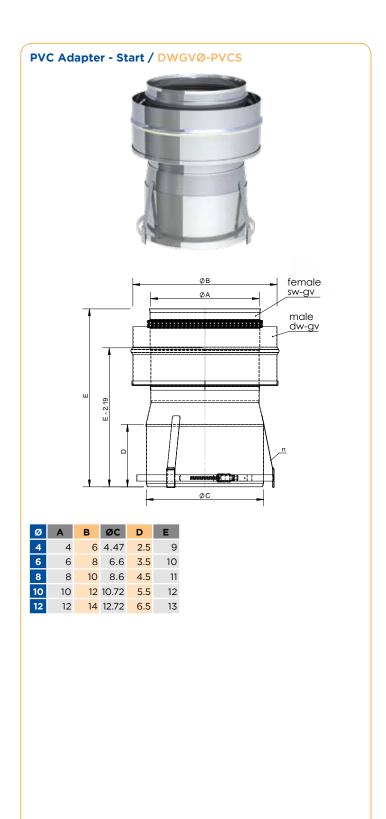


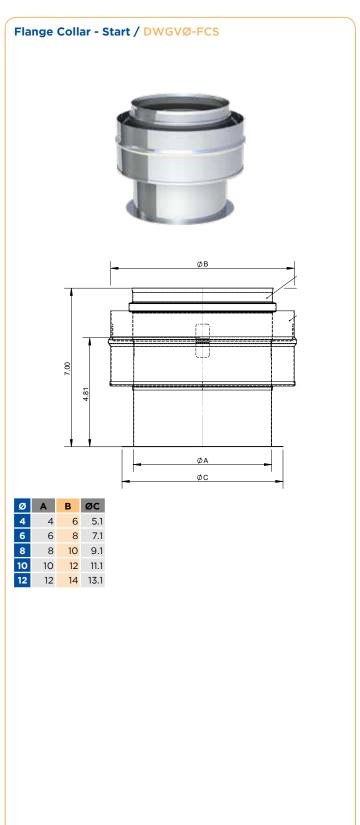
Ø	ØA	ØB
4	4	6
6	6	8
8	8	10
10	10	12
12	12	14

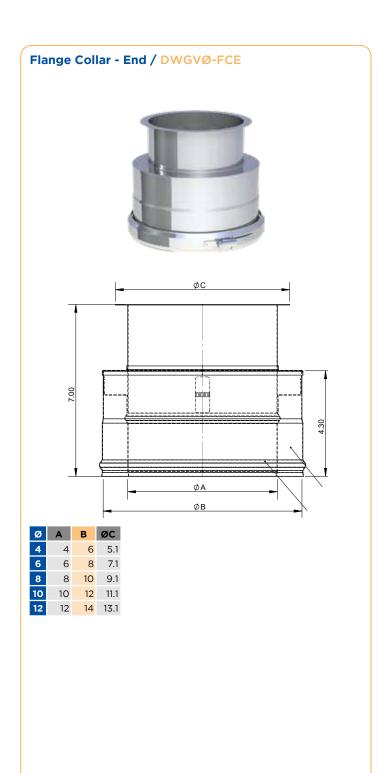
Includes Locking Band with Latch Clamp

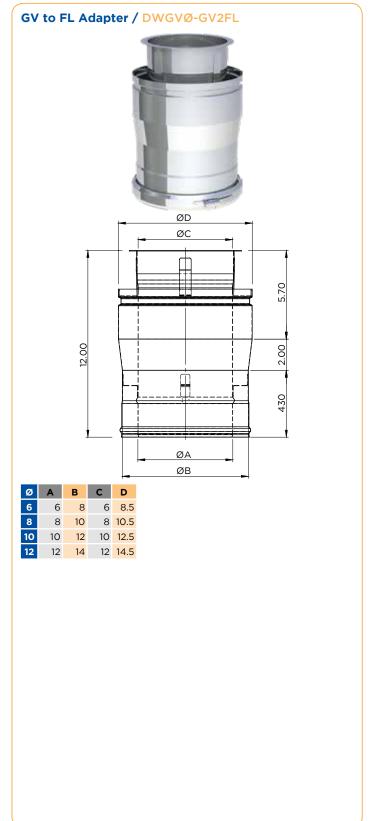






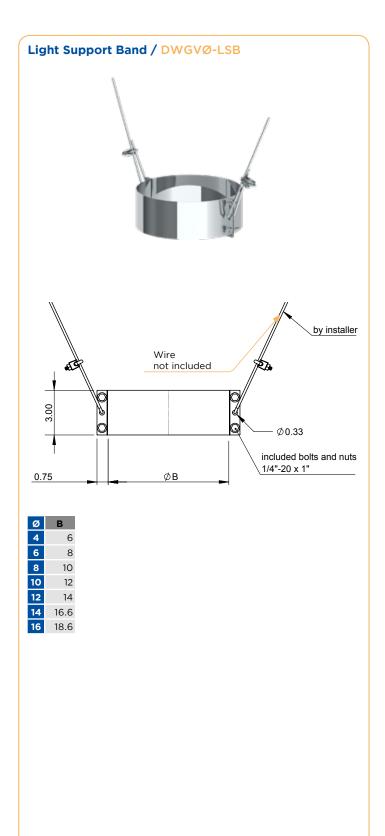


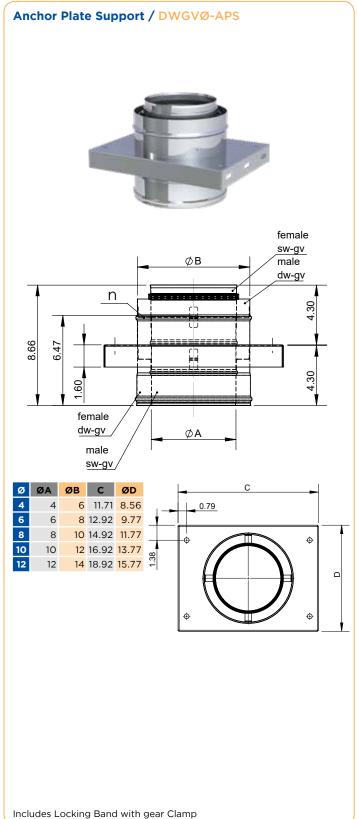




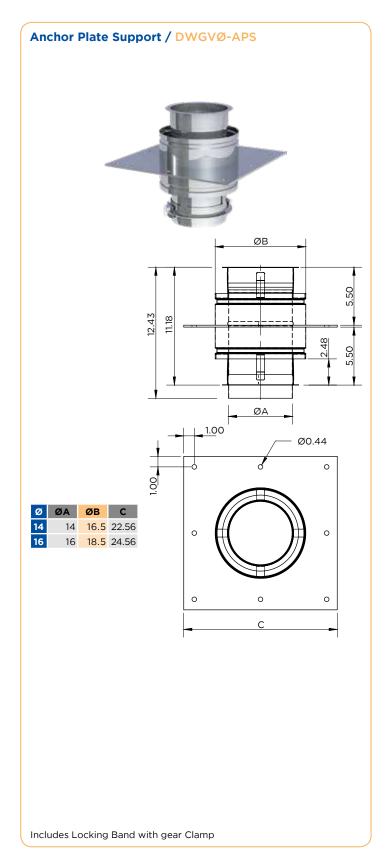
For more adapters, please see adapter matrix on website for complete listing.

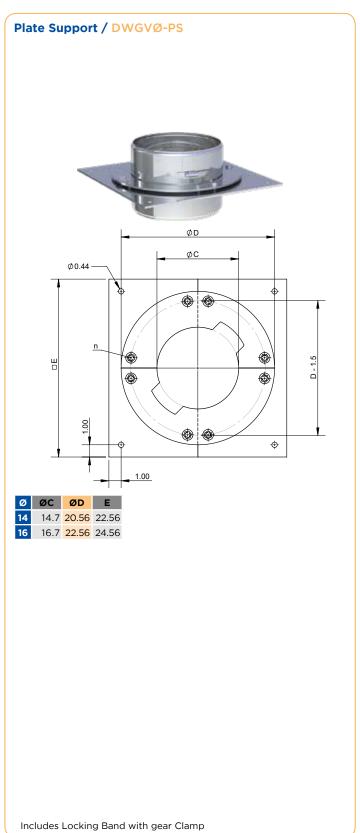
SUPPORTS



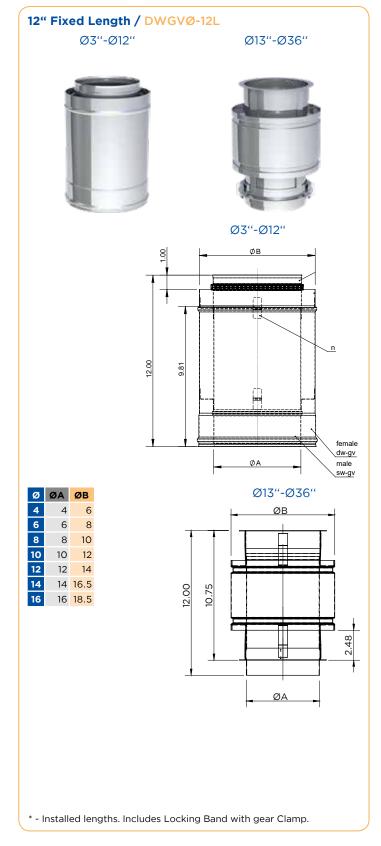


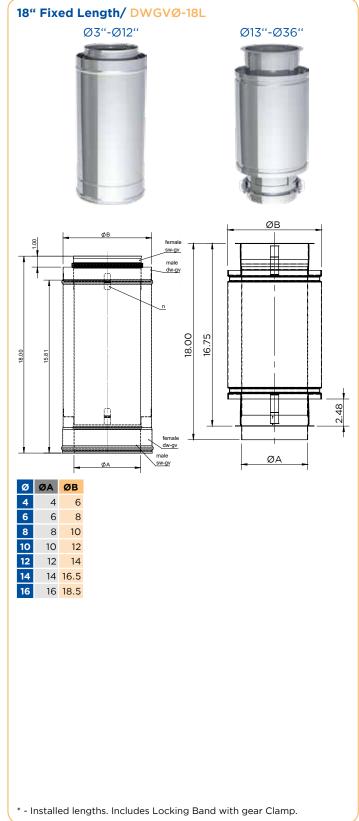
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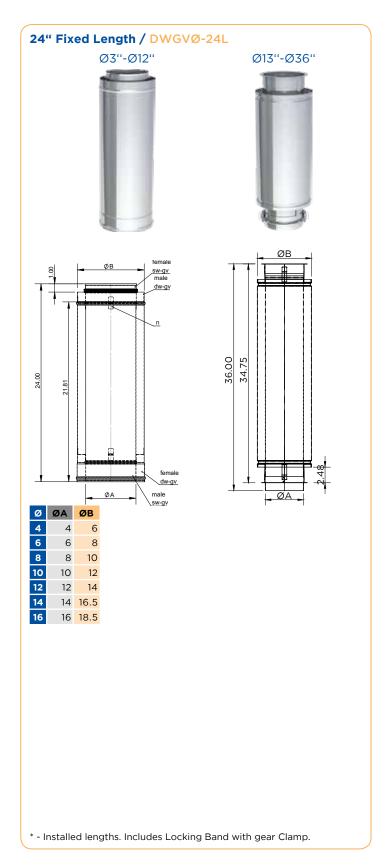


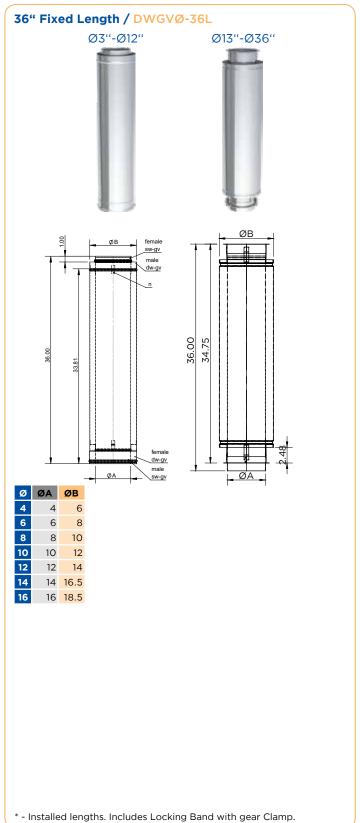
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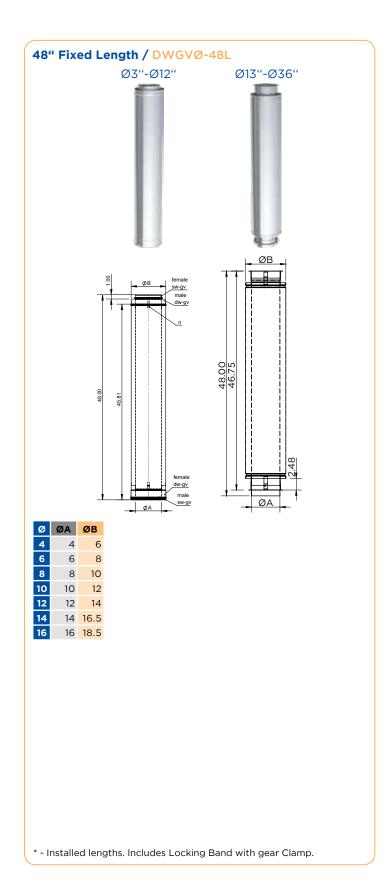


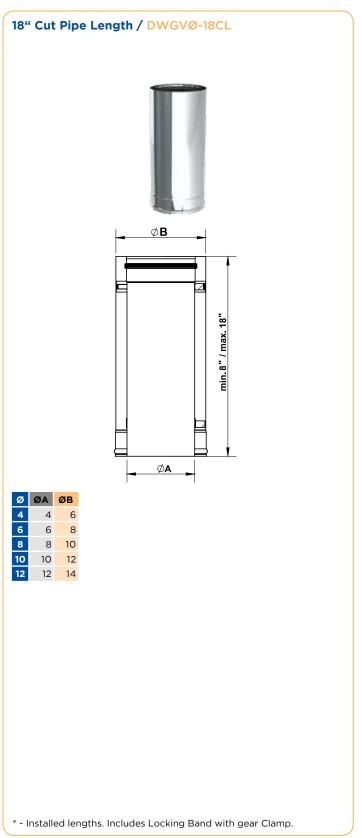
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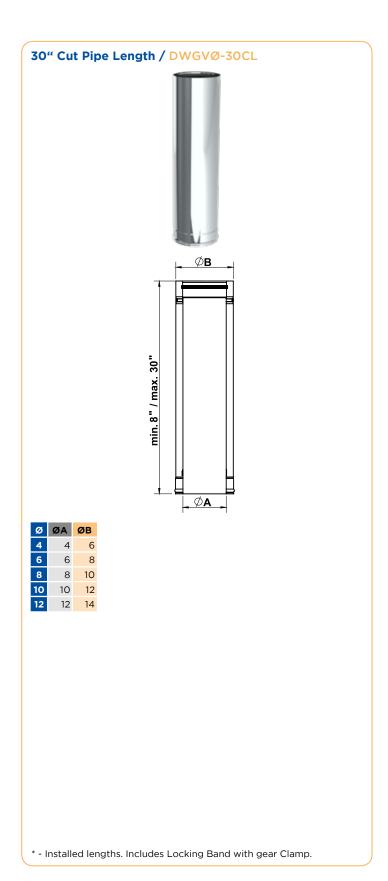


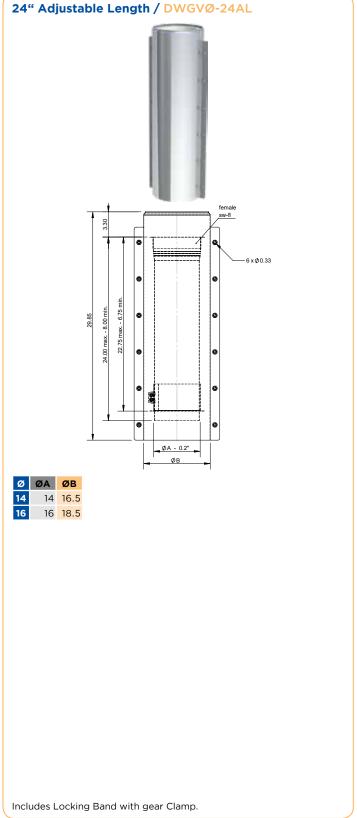
STRAIGHT LENGTHS



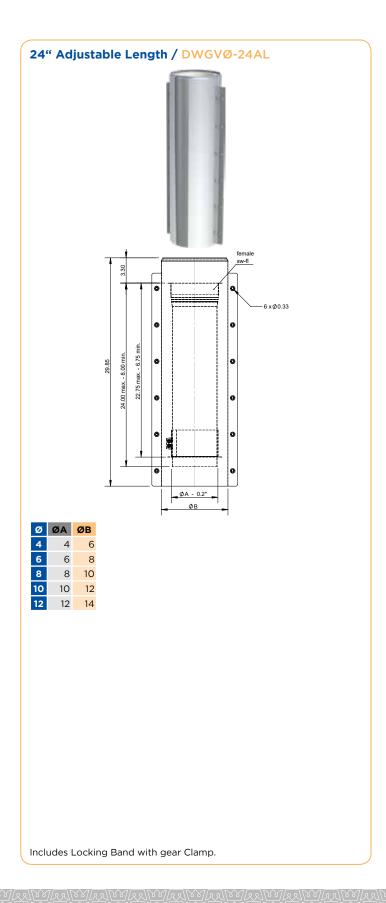


ADJUSTABLE LENGTHS



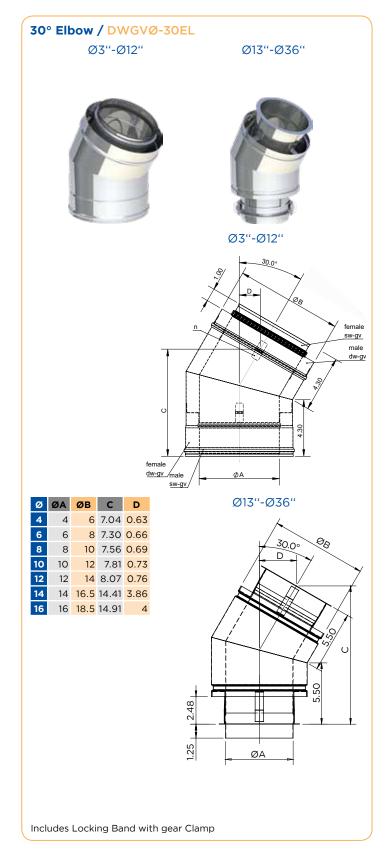


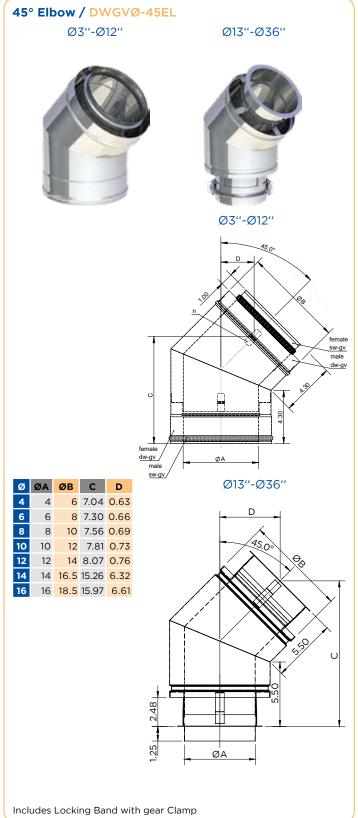
ADJUSTABLE LENGTHS



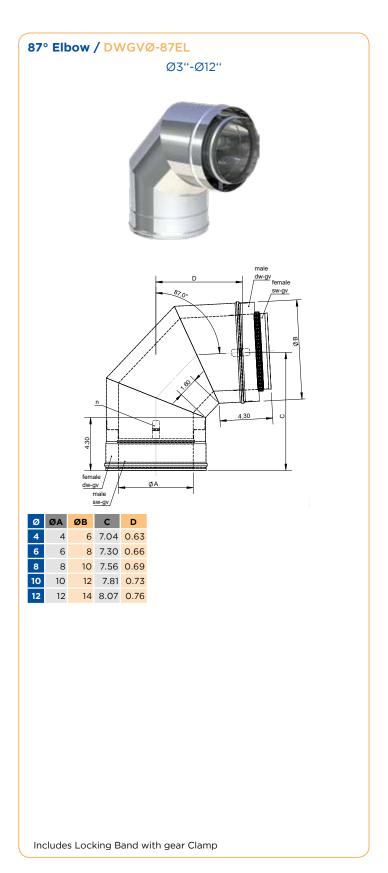
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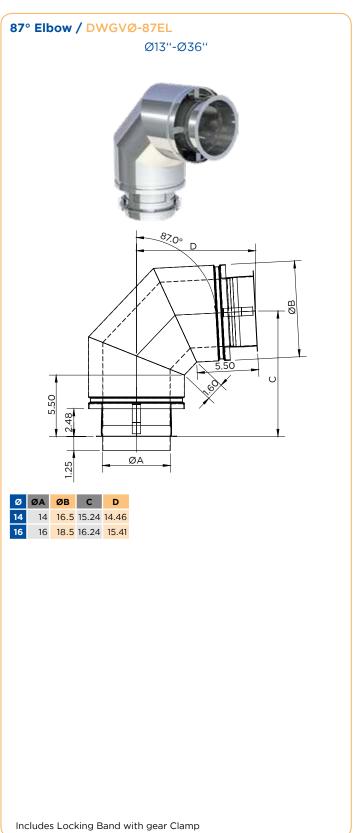
ELBOWS



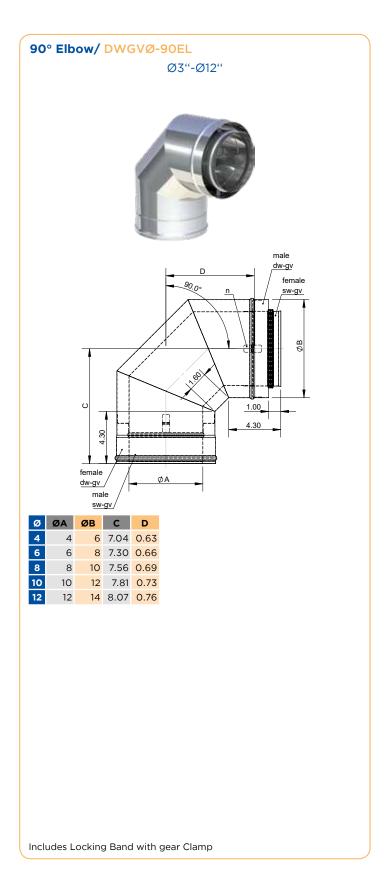


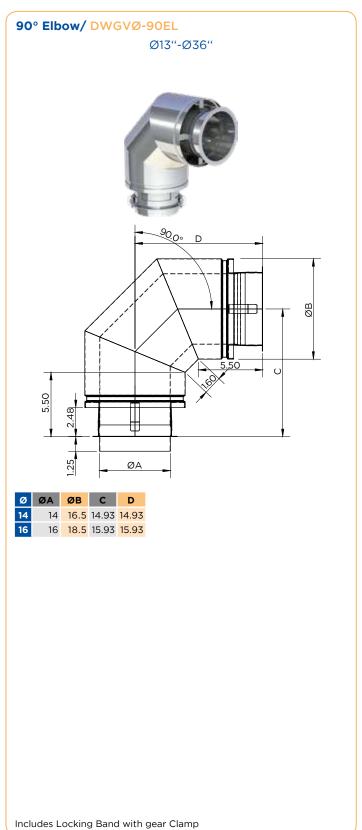
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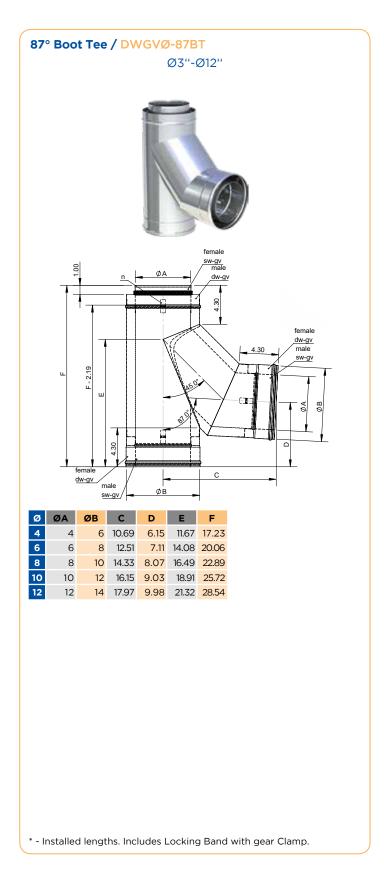


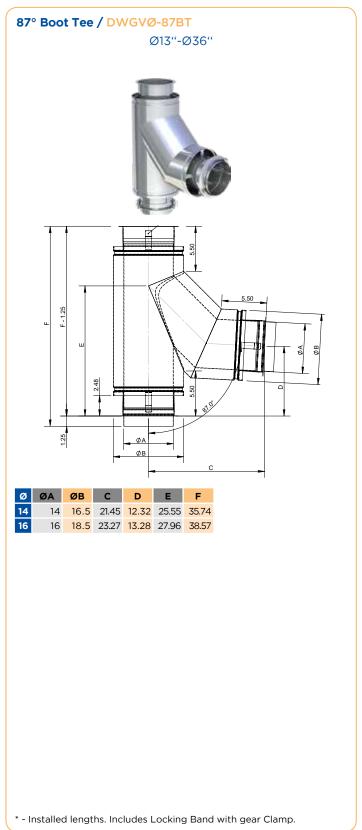
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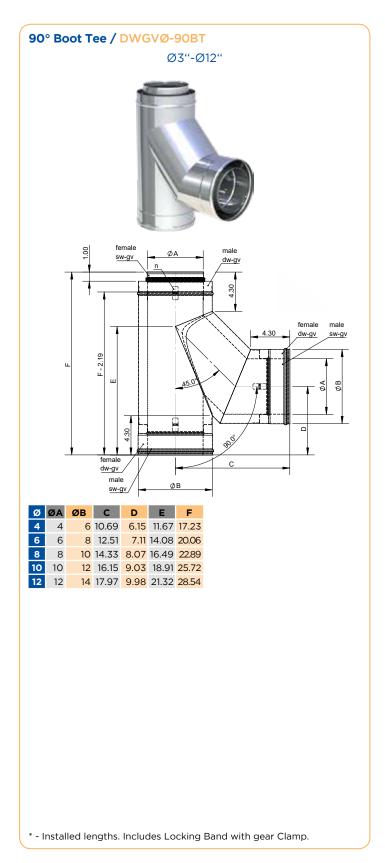


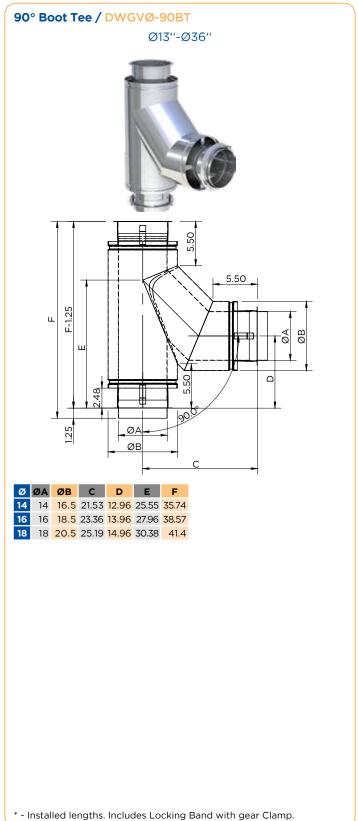
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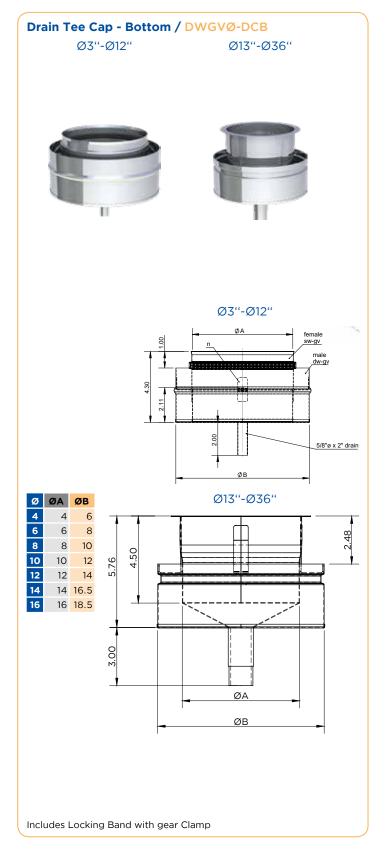


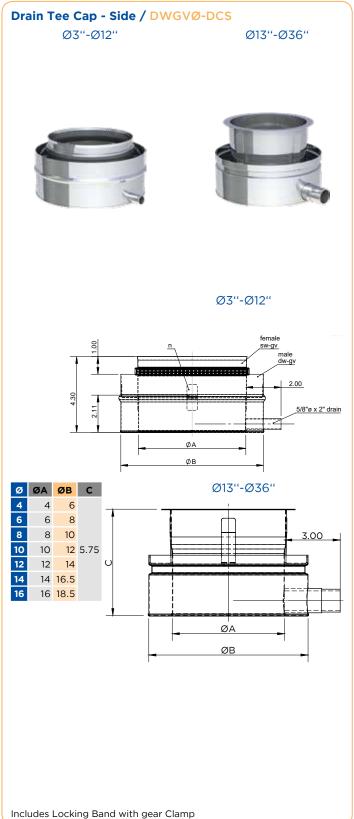
TEES



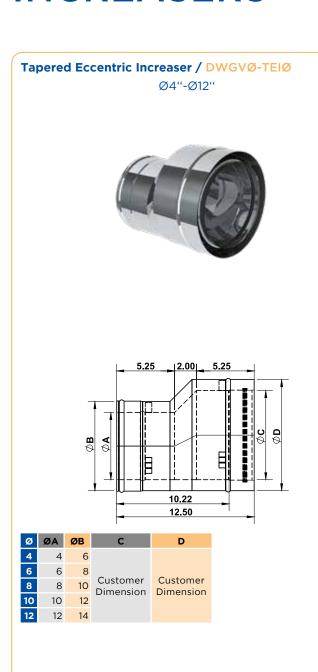


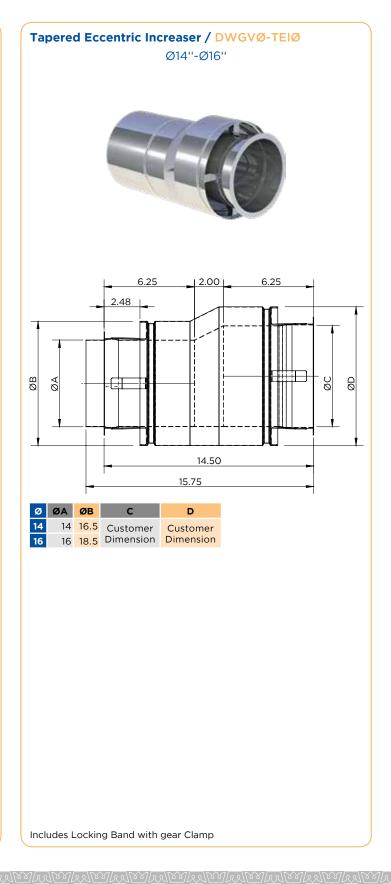
TEE CAPS





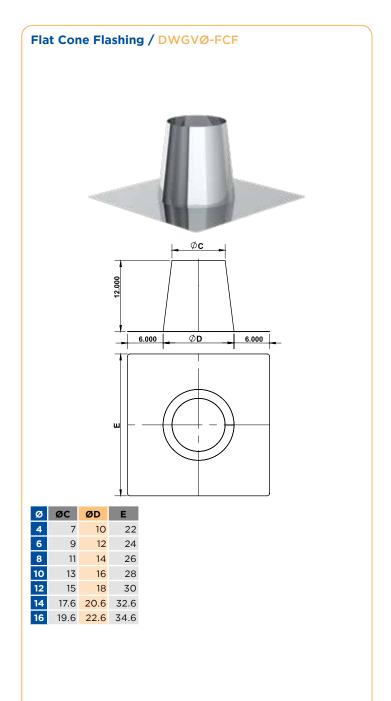
INCREASERS

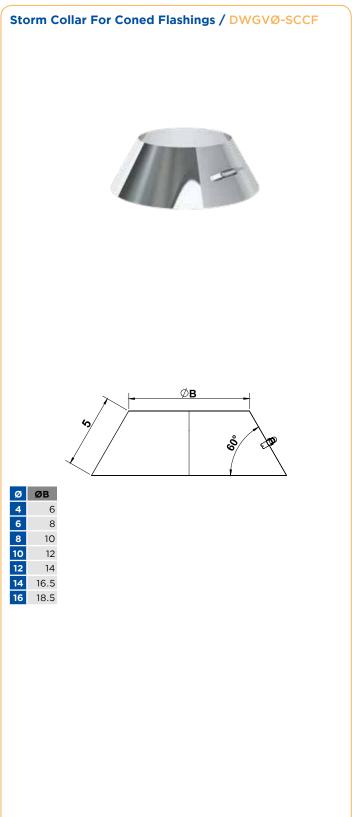




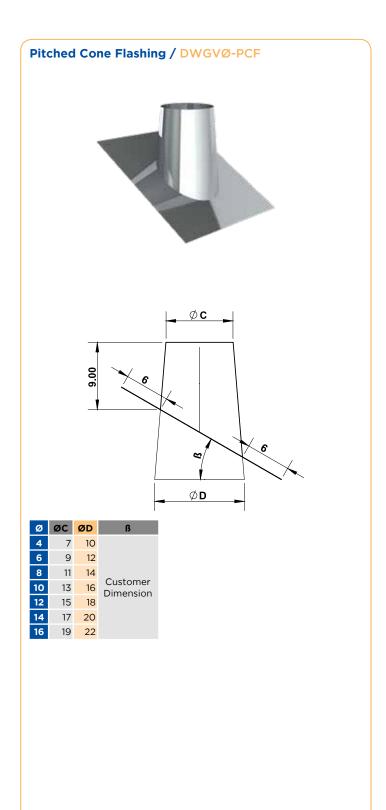
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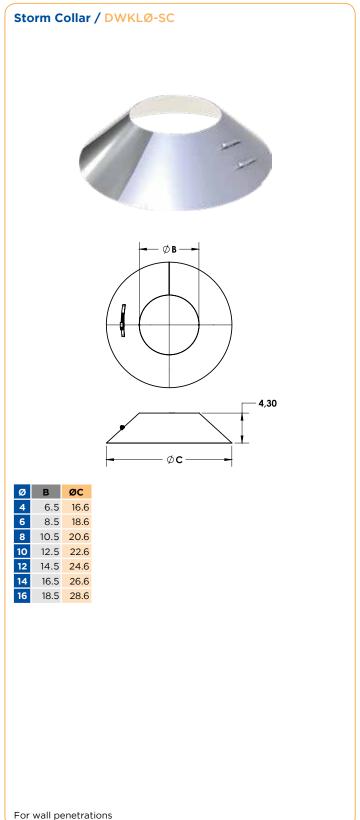
FLASHINGS





FLASHINGS

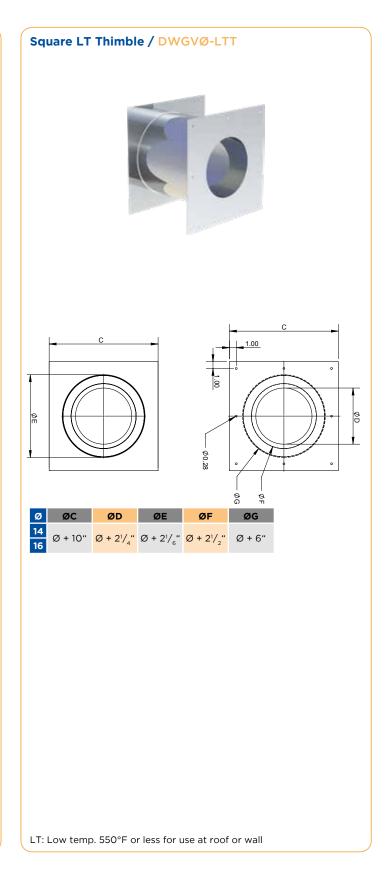




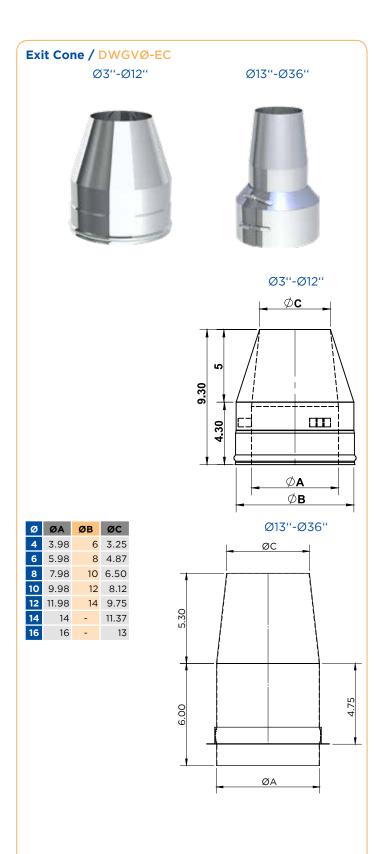
FLASHINGS / THIMBLES

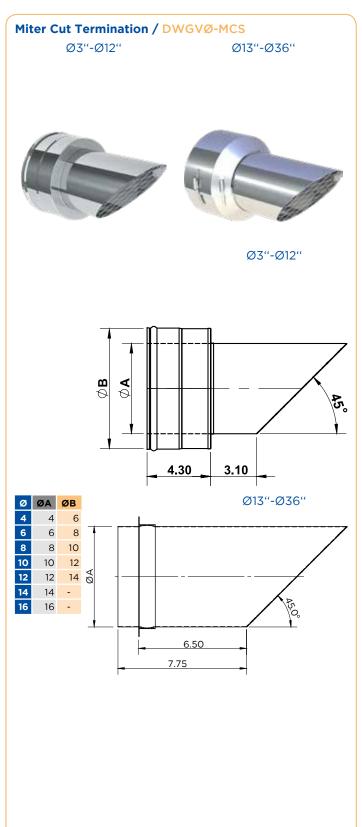
Square Wall Thimble / DWGVØ-SWT min, 5.5" / max. 10.00" C ØD ØE 14 6.50 8.50

Small diameter, Single-wall only

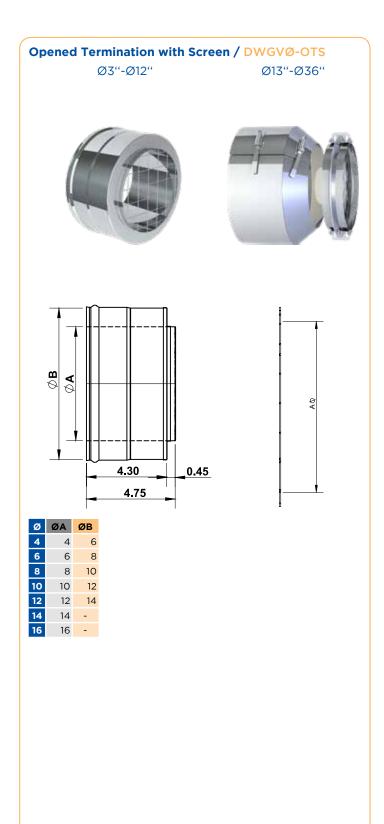


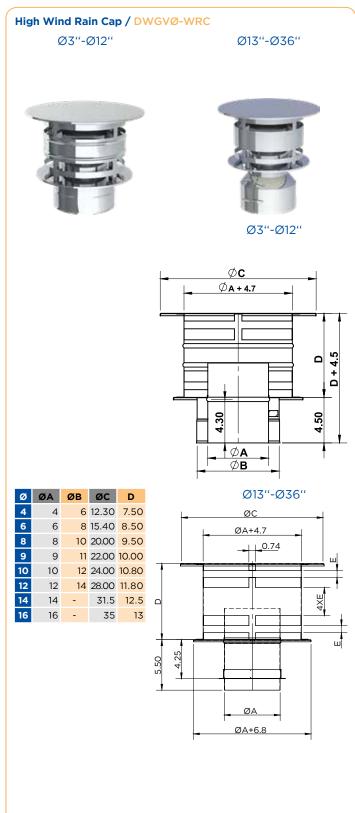
TERMINATIONS



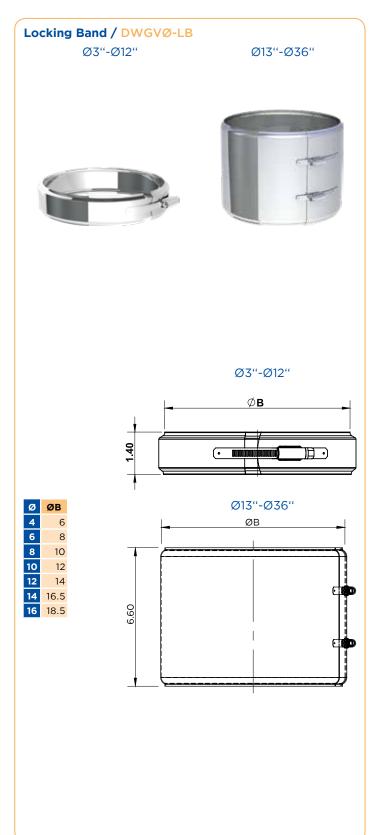


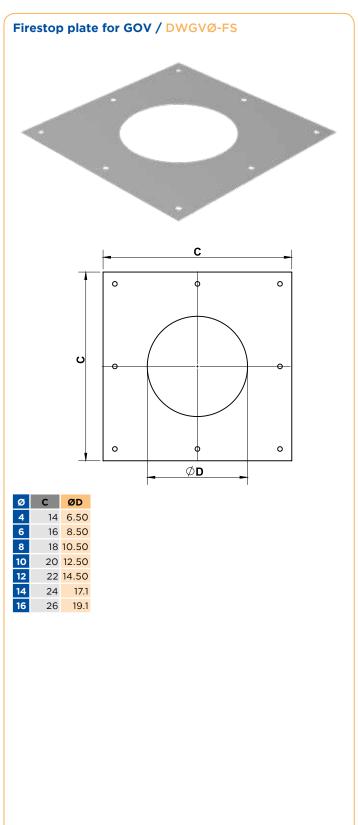
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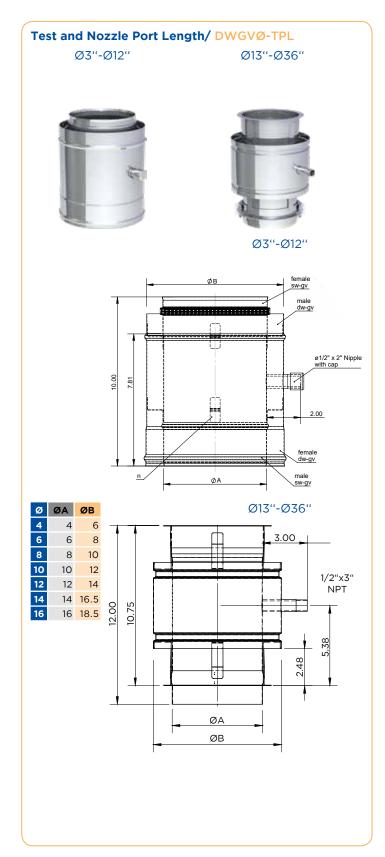


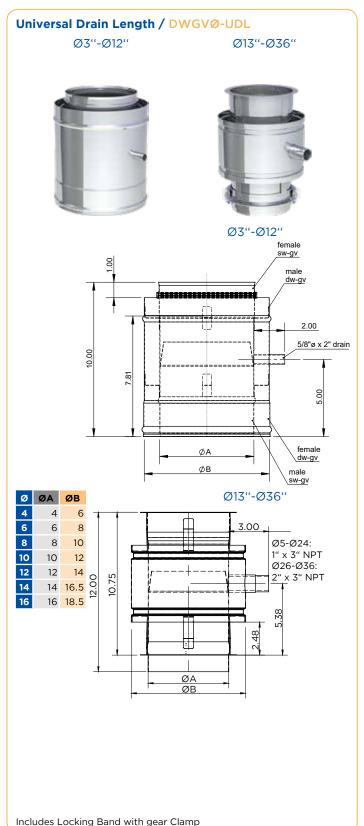
ACCESSORIES





ACCESSORIES





NOTES

PRODUCTION SITES

USA

Jeremias Inc.

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GERMANY

www.jeremias.de

CZECH REPUBLIC

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www.jeremias.pl

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The expert in your area:

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

