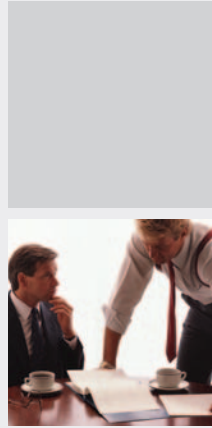
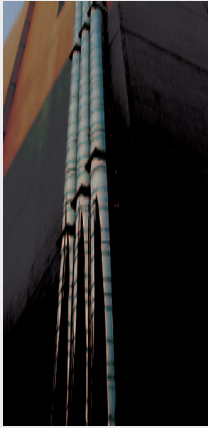


commercial systems



B Vent

Introduction

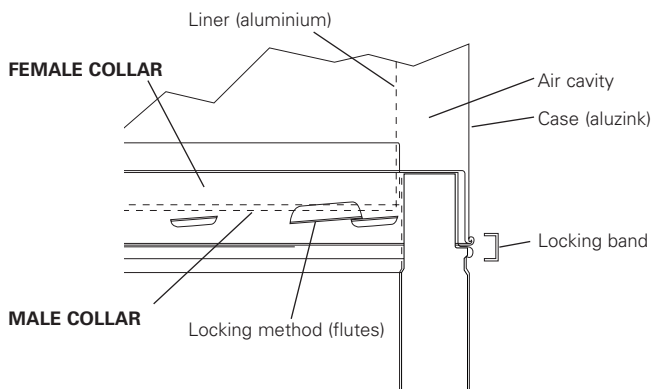
Commercial B-Vent is a comprehensive interconnecting range of twin wall vents designed specifically for fluing of commercial atmospheric gas and oil boilers. The diameter range is 180mm to 300mm. Smaller diameters are available in the residential B-Vent range which connect directly. ICS should be used for larger diameters. It too interconnects with B Vent.

Commercial B Vent

Commercial B Vent is a twin wall flue manufactured with an aluminium liner and an aluzink outer case. It is insulated with a 25mm air cavity and is designed for use on gas burning appliances with a zero or negative pressure at the appliance outlet. B-Vent commercial gas vent system is only suitable for use where the appliances are fitted with a draught diverter/hood, **and should not be used on forced draught or condensing applications.**

The flue is manufactured in accordance with BS 715 and British Gas Guidance IM 11 under the conditions of BS EN ISO 9001. The flue should be installed as detailed in BS 6644, with the termination point complying with the Clean Air Act and Document J of the building regulations.

Joining System



Technical Data

Fuel	Gas
Continuous firing temp	260°C
Outer Case	Aluzink
Outer case thickness	0.5mm
Liner	Aluminium
Liner thickness	0.5mm
Insulation	Air
Air cavity	25mm

Other Options (to special order)

Paint finish - B Vent can be supplied ready painted in any RAL or BS colour.

Specials - Rite Vent operates a full special component manufacturing service to meet difficult applications.

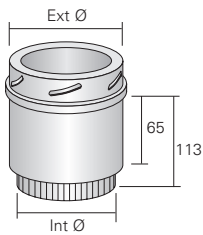
Product Ordering

To identify fully the component required, it is advised to state the product code followed by diameter as follows:-

For codes starting with number 1, quote the product code followed by the **internal diameter** e.g. for a 200mm Ø B-Vent 30° bend, the full code is **16019200**.

Codes starting with the number 9 are universal accessories common to a number of Rite-Vent ranges, and therefore requires the **external diameter** e.g. to specify the wallband to suit a 200mm int Ø system the external diameter is 250mm therefore the full code is **92940250**.

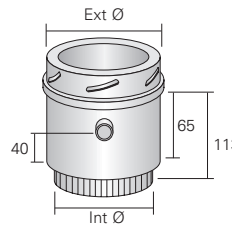
Starting Components



Appliance Connector 16047

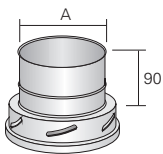
IntØ (mm)	180	200	250	300
ExtØ (mm)	227	247	295	346

Connector is tapered starting 5mm less than internal diameter.



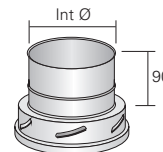
Appliance Connector with sample point 16053

IntØ (mm)	180	200	250	300
ExtØ (mm)	227	247	295	346



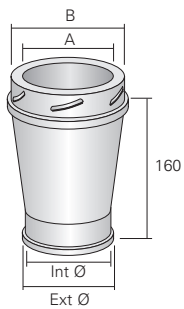
Vent to Flex Connector 16032

IntØ (mm)	180	200	250	300
A	188	208	258	308



B Vent to Single Wall 16031

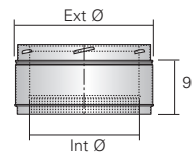
IntØ (mm)	180	200	250	300
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For best gas flow and moisture drainage.
Conical Increaser 16071 + int + A

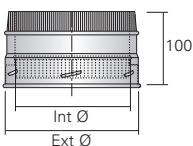
IntØ (mm)	150	180	200	250
ExtØ (mm)	178	235	256	308
A	180	200	250	300
B	235	256	308	358

Stepped increasers and other outlets sizes available to special order.



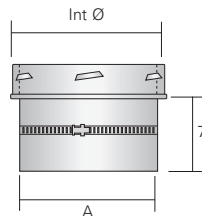
Selkirk QC to B Vent Adaptor 16034

IntØ (mm)	180	200	250	300
ExtØ (mm)	235	256	308	358



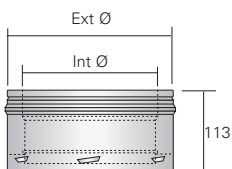
B Vent to Selkirk QC Adaptor 16035

IntØ (mm)	180	200	250	300
ExtØ (mm)	235	256	308	358



Flex to B Vent Adaptor 16033

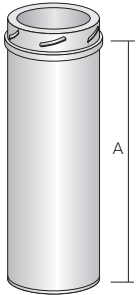
IntØ (mm)	180	200	250	300
A	186	206	256	306



B Vent to ICS Adaptor 17037

IntØ (mm)	180	200	250	300
ExtØ (mm)	230	250	300	355

Pipes

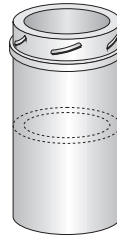


IntØ (mm)	180	200	250	300
ExtØ (mm)	235	256	308	358

Nominal Length	A	Code
16001	988	16001
16002	488	16002
16004	321	16004
16005	155	16005

Adjustable Pipe 75 - 450mm

16009

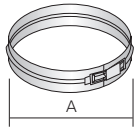


IntØ (mm)	180	200	250	300
ExtØ (mm)	235	256	308	358

Slides on pipe below. Minimum engagement should be half the diameter. Cut to length if necessary when fitting to tees or elbows. This component is **NOT** load bearing.

Locking Band-Clip Fastening

16083

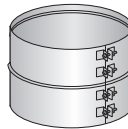


IntØ (mm)	180	200	250	300
ExtØ (mm)	235	256	308	358

Order separately. Use on all external joints. Optional on internal joints except elbow and tee female sockets which **MUST** be locked.

Extended Locking Band

16084

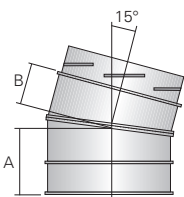


IntØ (mm)	180	200	250	300
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Use on horizontal runs to achieve 4m between supports. Also use to avoid guy wires and to achieve 3m unsupported above roof level by fitting to the joint immediately below every joint above roof level.

Bends

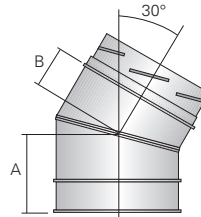
NOTE: Female sockets of bends **MUST** be locked after alignment either with a locking band or self-tapping screws ensuring not to penetrate inner skin.



15° Bend

16018

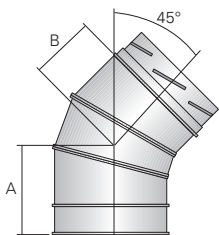
IntØ (mm)	180	200	250	300
ExtØ (mm)	235	256	308	358
A	90	87	97	125
B	65	62	69	89



30° Bend

16019

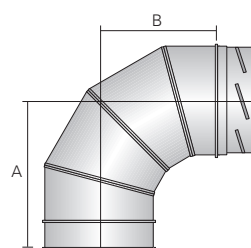
IntØ (mm)	180	200	250	300
ExtØ (mm)	235	256	308	358
A	89	81	84	117
B	77	90	99	117



45° Bend

16017

IntØ (mm)	180	200	250	300
ExtØ (mm)	235	256	308	358
A	134	184	158	183
B	99	142	150	143



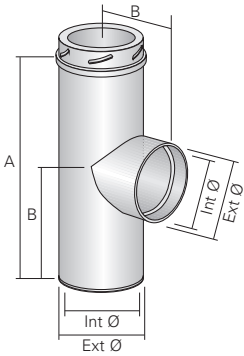
90° Bend

16015

IntØ (mm)	180	200	250	300
ExtØ (mm)	235	256	308	358
A	224	266	250	312
B	190	242	237	279

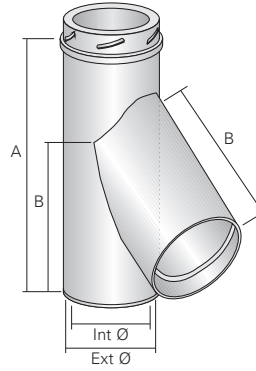
Tees

NOTE: Female sockets of tees **MUST** be locked after alignment either with a locking band or self-tapping screws.



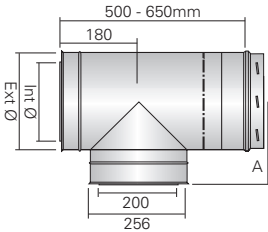
90° Tee 16020

IntØ (mm)	180	200	250	300
ExtØ (mm)	235	256	308	358
A	350	390	442	492
B	175	195	221	246



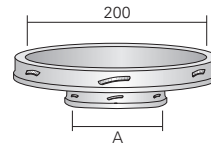
135° Tee 16021

IntØ (mm)	180	200	250	300
ExtØ (mm)	235	256	308	358
A	414	444	517	588
B	326	351	414	474



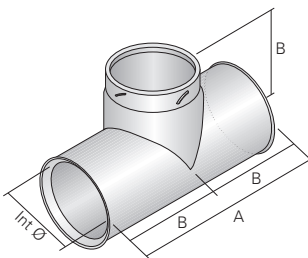
Telescopic Header Tee 200Ø Branch 16022

IntØ (mm)	200	250	300
ExtØ (mm)	256	308	358
A	228	254	279



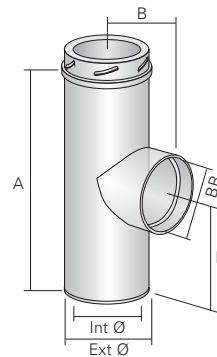
Telescopic Header Branch Increaser 16027 +A +200

A	100	125	150	180
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Centre Offtake Tee
For modular systems.
Double female entry. 16057

IntØ (mm)	200	250	300
ExtØ (mm)	256	308	358
A	390	442	492
B	195	221	246



90° Reducing Tee 16023
Make codes 'Double Barrelled'
e.g. 200 - 180 = 16023200180 + int + BR

IntØ	Ext	A	B	BR Dia available
200	256	390	195	180
250	308	442	221	180, 200
300	358	492	246	180, 200, 250



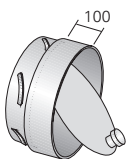
Tee Cap 16025

IntØ (mm)	180	200	250	300
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Tee Cap and Drain 16029

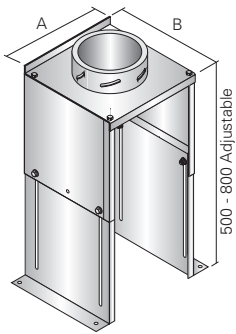
IntØ (mm)	180	200	250	300
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Draught Stabiliser 16026

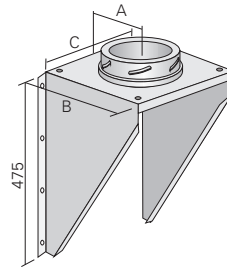
IntØ (mm)	180	200	250	300
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Support Components



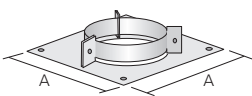
Floor Support Adjustable 17078

IntØ (mm)	180	200	250	300
ExtØ (mm)	235	256	308	358
A	285	305	362	412
B	341	363	413	463



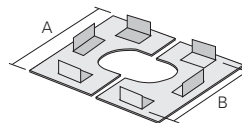
Wall Support Complete Assembly 17087
Top Plate Only 1708701

IntØ (mm)	180	200	250	300
ExtØ (mm)	235	256	308	358
A	168	178	204	229
B	335	355	405	455
C	291	311	368	418



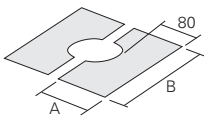
Support Plate 95680 + Ext

IntØ (mm)	180	200	250	300
ExtØ (mm)	235	256	308	358
A	385	406	458	508



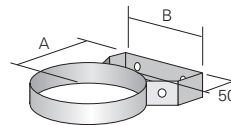
Firestop Plate Adjustable (2 piece) 94670 + Ext

IntØ (mm)	180	200	250	300
ExtØ (mm)	235	256	308	358
A	450	610	610	610
B	336	356	408	458



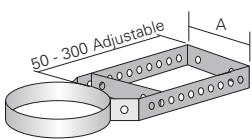
Roof Plate (2 piece) 94720 + Ext

IntØ (mm)	180	200	250	300
ExtØ (mm)	235	256	308	358
A	295	310	350	380
B	450	610	610	610



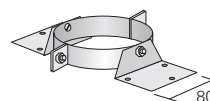
Wall Band 50mm 92940 + Ext

IntØ (mm)	180	200	250	300
ExtØ (mm)	235	256	308	358
A	168	178	204	229
B	233	254	306	356



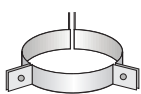
Wall Band 50 - 300mm 94960 + Ext

IntØ (mm)	180	200	250	300
ExtØ (mm)	235	256	308	358
A	240	261	313	363



Roof Support 94640 + Ext

IntØ (mm)	180	200	250	300
ExtØ (mm)	235	256	308	358



Guy Wire Bracket 95900 + Ext

IntØ (mm)	180	200	250	300
ExtØ (mm)	235	256	308	358

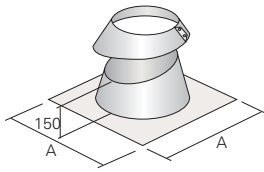


Ceiling Hanger 94750 + Ext

IntØ (mm)	180	200	250	300
ExtØ (mm)	235	256	308	358

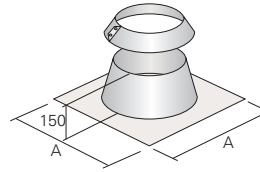
Flashings

Flashings are supplied complete with storm collar and sealant



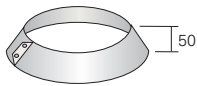
Angled Flashing Kit 5° - 45°
Aluminium
For use on pitched roofs. 95510 + Ext

IntØ (mm)	180	200	250	300
ExtØ (mm)	235	256	308	358
A	700	800	800	860



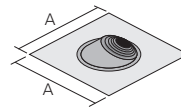
Flat Flashing Kit
Aluminium
For use on flat roofs. 95530 + Ext

IntØ (mm)	180	200	250	300
ExtØ (mm)	235	256	308	358
A	610	610	610	800



Storm Collar 95560 + Ext

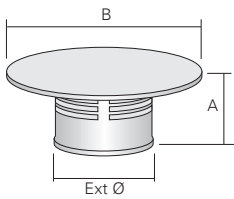
IntØ (mm)	180	200	250	300
ExtØ (mm)	235	256	308	358



Uniflash 94540
Universal EPDM rubber/aluminium flashing.
Just pull the required diameter tab on the rubber seal.

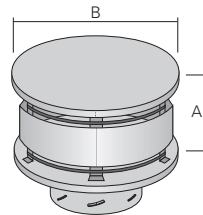
Code	94540001	94540001	94540001
ExtØ (mm)	80 - 200	80 - 200	80 - 200
A (mm)	500	500	500

Terminals



Raincap 16037

IntØ (mm)	180	200	250	300
ExtØ (mm)	235	256	308	358
A	245	245	295	320
B	455	455	555	655

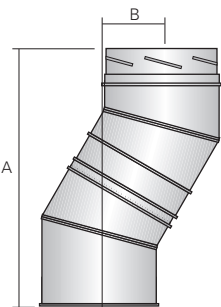


Anti-Splash, Anti-Downdraught Terminal
16039 with mesh
(Gastec Approved) 16038 without mesh

IntØ (mm)	180	200	250	300
ExtØ (mm)	235	256	308	358
A	200	200	250	300
B	359	409	509	609

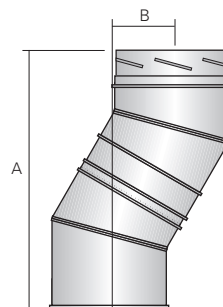
Offsets

The introduction of a double bend into the system offsets the chimney's axis.



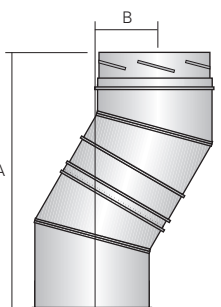
15° Bend

IntØ (mm)	180	200	250	300
ExtØ (mm)	235	256	308	358
A	305	293	326	421
B	40	39	43	55



30° Bend

IntØ (mm)	180	200	250	300
ExtØ (mm)	235	256	308	358
A	310	319	341	437
B	83	85	92	117



45° Bend

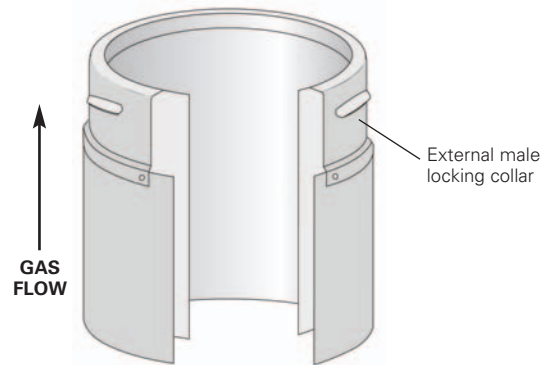
IntØ (mm)	180	200	250	300
ExtØ (mm)	235	256	308	358
A	398	557	526	557
B	165	231	218	231

Installation Instructions

Jointing System

Flue sections and accessories are joined together by placing the female collar of one section over the corresponding male collar of the preceding section then locking by rotating the upper section clockwise. It is vital that all flue gas carrying components are installed with the external collar pointing upwards. The arrow on the label indicates the direction of the flue gas flow.

For added joint security, locking bands are available as an optional extra. Alternatively self tapping screws with a maximum length of 15mm can be used, but care must be taken to avoid penetrating the inner liner. Avoid making joints within wall, floor or ceiling joist space.



Jointing of bends and tees

To allow system alignment, the female sections of the locking collar on tees and elbows have no locating flutes. For this reason, these joints **must** be secured using either a locking band or self tapping screws. See paragraph above.

Appliance connection

The appropriate appliance connector should be used and sealed to the appliance using fibre rope (or similar alternative) and fire cement, and/or high temperature silicone sealant.

Support components

A wall support at the base of the stack will support 15m of B-Vent. Inverting the support increases the amount (see load bearing tables below). Wall supports can then be used in intermediate positions thereafter every 10-22m as appropriate per the load table.

Wall brackets and roof brackets are not load bearing and give lateral support only. Wall brackets should be fitted every 3m and at any offsets to ensure the system is rigidly supported. Horizontal runs should be supported every 1.5m. This can be increased to 4m with use of the extended locking band.

Where the flue is free standing above the roof and its height exceeds 1.5m beyond the last support or the roof, a guy wire bracket must be used, and every 1.5m thereafter. Alternatively, a height of up to 3m can be achieved unsupported with the use of an extended locking band at the joint immediately below the last support and every joint above the roof level.

Load bearing data

Description	180 Ø	200 Ø	250 Ø	300 Ø
Floor support adj.	27m	27m	27m	27m
Wall support	15m	15m	15m	15m
Wall support (inverted)	22m	22m	22m	22m
90° Tee	27m	27m	27m	27m
135° Tee	15m	15m	15m	15m
Inspection length	27m	27m	27m	27m
Support plate	9m	9m	9m	9m

Product weights

Description	180 Ø	200 Ø	250 Ø	300 Ø
1000mm pipe	4.18	4.42	5.39	6.32
900mm pipe	-	-	-	-
500mm pipe	2.29	2.37	2.92	3.44
450mm pipe	-	-	-	-
300mm pipe	1.61	1.64	2.04	2.40
150mm pipe	1.03	1.14	1.26	1.50
90° Tee	2.10	2.35	3.12	4.00
135° Tee	3.01	3.17	4.25	5.98



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www.schiedelrite-vent.co.uk