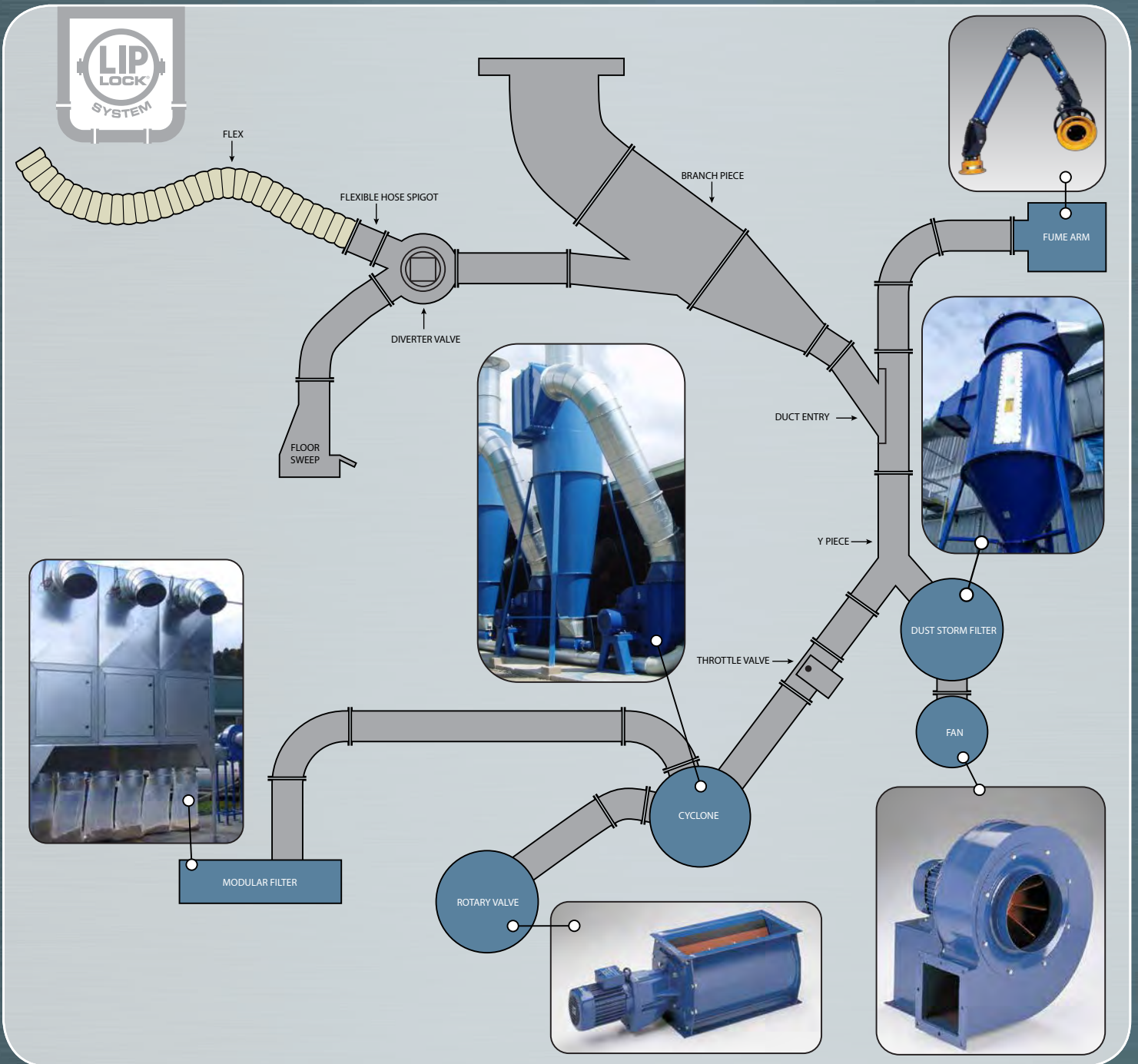




New Zealand DUCT & FLEX

Product Catalogue
May 2013



OUR BUSINESS IS IN PROVIDING THE PARTS THAT GIVE YOU THE BEST SOLUTION

WHY BUY FROM NZ DUCT & FLEX



PRODUCT IN STOCK

New Zealand Duct & Flex is the country's largest stockist of 'off the shelf' modular ducting, and flex. This allows us to deliver to you the following day*.



EXPERIENCE

With our products established in NZ over 25 years ago, we also offer the technical and engineering experience and support of two large European suppliers

NO COMPROMISE

We aim to ensure your system has no compromises that affect efficiency, saving you energy and/or running costs longer term.

OVERNIGHT DELIVERY

We offer overnight dispatch to our customers. Orders received by 4pm for in-stock items can be couriered to you for delivery the next morning. We hold stock in Auckland and Christchurch. **(Some items over 1.5m and large items for the South Island may take 2 -3 days).*

PLANNING FOR THE FUTURE

Our planning service is FREE and we always aim to save you costs now, but also protect your ability to grow in the future, with the product and layouts we suggest.

ORDERING WITHOUT HIDDEN COSTS

Our Quotes specify each single item. We are happy for you to order just the additional items you need for your system and will help you re-use existing items and machinery where practical. (In many cases this is our duct product from 2 decades ago.)

EXTRAS AND SURPLUS - WORKING WITH YOU

Installations frequently change from the original plan – additional items can be ordered overnight and unused ones returned for credit as long as they are in original condition within 1 month of initial delivery.

We do not accept returns of flex (as it can become damaged invisibly). In common with industry practise, once flex has been cut it's not returnable!



QUALITY AT COMPETITIVE PRICES

We believe we offer the finest quality available and the widest and most comprehensive range. Due to the size of our supplier factories, and our high turnover, we are able to offer quality at very competitive prices.

We will always match, or beat, any price, from any competitor, for the SAME product specification. The Filters, fans and ducting are all sourced from the same supplier, with full warranty regarding quality and performance.

SWEDISH STEEL

Our 'galv' ducting is made from finest quality Swedish steel, galvanised at source, for long lasting performance (unlike cheaper 'spangled' type galv).

Our heavy 2mm repainted steel is surface treated in JKF's own state of the art automatic powder coating plant ensuring high and uniform quality for an impact and scratch resistant surface.

Stainless Steel duct is manufactured in AISI 304 stainless steel with unique stainless pressed bends in some sizes. It is laser welded, removing the particle traps of folded stainless ducting. Filters, fans and ducting, all from the same supplier, with full warranty regarding quality and performance.



Spangled cheaper galv process

Fine longer lasting finish



WHY CHOOSE MODULAR DUCTING

- Easy to install or alter by your own staff
- Worn parts can be replaced in minutes
- Reusable in different layouts or when new machines are introduced
- Interchangeable with other thicknesses i.e. 2mm bends can be substituted into a 1mm layout to reduce wear
- Smooth pressed bends for less wear and lower running costs
- Excellent seals and rigidity – leaks in an extraction system mean loss of capacity and additional noise. Our connectors ensure tight joints as well as strength.



WHY CHOOSE OUR FLEX

We have specialist ranges including:

- Antistatic poly for reduced dust retention in ducting and no static electric shock or explosion risks
- Specialist CNC flex for wood working CNC routers that is very flexible but doesn't implode under pressure
- High Temp – Silicon flex for up to 300°C

Other products include Agriflex, Chemical resistant flex, PVC suction flex and flex suitable for garage exhausts – see pages 22-25



WE BELIEVE IN LOW PRESSURE, LOW MAINTENANCE DESIGN. WE GIVE YOU A BIGGER FILTER WITH MORE SURFACE AREA.

WHEN COMBINED WITH CLEANING SYSTEMS TO PROLONG THE LIFE OF THE FILTERS, OUR FILTERS USE LESS POWER, AND REQUIRE LITTLE MAINTENANCE.

FILTER SYSTEMS

Our filter range is manufactured by JKF Industri based in Denmark. JKF has one of the most extensive ranges of filters in the industry- from extraction systems to suit small to medium workshops, to systems for large industrial 24/7 plants.

FILTER SELECTION

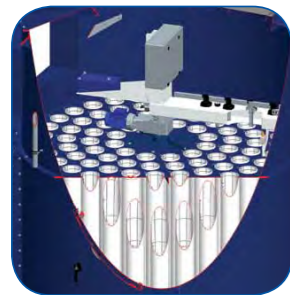
We offer a full range of traditional Modular Filter Bag Houses, Intake and Silo filters, Point filters and Pulse filters ranging from 1000m³/hour or less, to over 500,000m³/hour. These are all standard filters, tried and tested over 60 years manufacturing from Europe's leading supplier.

They are available to the highest construction standards, meeting specified corrosion class and available with the world's most advanced explosion safety design.

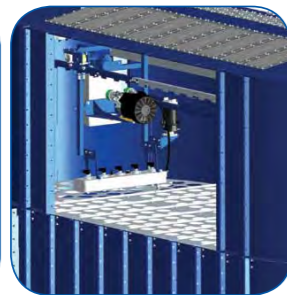
The range includes models with PowerPulse® Cleaning giving market leading low energy consumption.

All filter products meet EN ISO 9001:2008 and are manufactured under EN ISO 18001 and EN ISO 14001 environmental standards.

Filter Type	Super Blower Filter	Blower Filter	Jet Filter JF9-18	Blower Filter BF-ET	Dust Storm	Dust Storm DST-12EC	Super-Jet Filter	Multi Modular Bag Filter	Modular Bag Filter	Intake Filter	Point Filter
ATEX APPROVED	✓			✓	✓	✓	✓	✓			
POSITIVE PRESSURE	✓	✓	✓	✓	✓	✓	✓	✓	✓		
NEGATIVE PRESSURE	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓
INLET											
Tangential	✓	✓	✓	✓	✓	✓					
Air Supply Chamber								✓	✓	✓	
Side Inlet Settling Chamber	✓								✓		
Side Inlet Partial Downflow					✓		✓				
DISCHARGE											
Conical Bottom	✓	✓	✓	✓	✓	✓		✓	✓		
Screw	✓							✓	✓		
Rotary Valve	✓	✓	✓	✓	✓	✓	✓	✓	✓		
Scraper Bottom	✓	✓	✓	✓	✓	✓	✓				
Bucket	✓	✓	✓	✓	✓	✓			✓	✓	
Bag								✓	✓		
FILTER CLEANING											
Blower Cleaning		✓									
Jet Cleaning			✓							✓	✓
Power Pulse Cleaning	✓			✓	✓		✓				
HPBS Cleaning	✓										
Regenerating Blower								✓	✓		
EC Cleaning						✓					



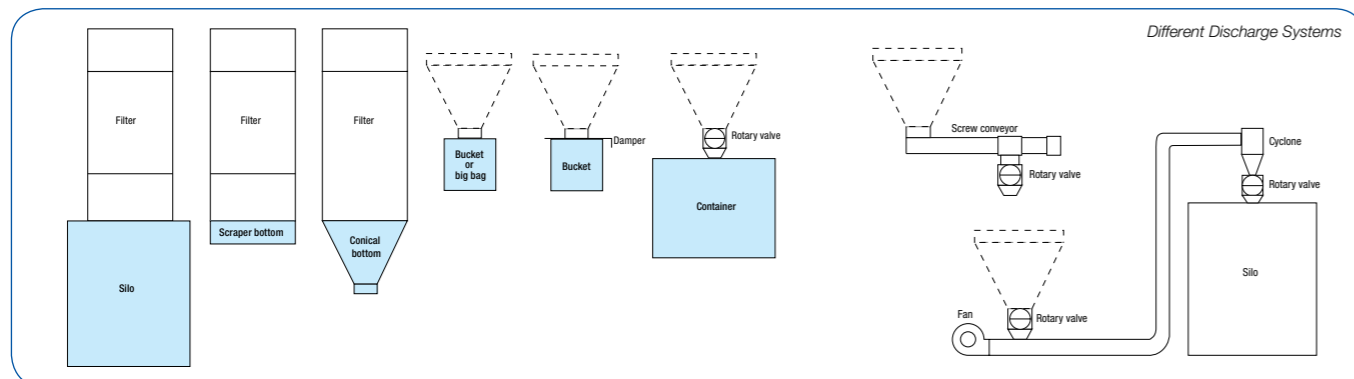
PowerPulse® cleaning in BF



PowerPulse® cleaning in SBF

DISCHARGE SYSTEMS

Filter discharge of dust is dependent upon type and volume of dust and customer requirements. Modular filters can also have chain or screw(auger) type conveying to rotary valve exits.



EXPLOSION SAFETY SYSTEMS

2 levels of systems are available

- ATEX approval
- ATEX plus VFV venting

ATEX APPROVAL



Explosion relief venting in the filter body

Dust can be very explosive. Industrial filters consist of a dust filled part on the inlet side and a clean air part on the outlet side. Dust explosions occur in the dust filled part of the filter. Instances occur around the world every year where employees are killed or injured by explosions of this type. A spark ignites the dust causing an explosion inside the filter. The filter, having no means of releasing this energy is blown apart and fire, parts of the filter and dust erupts with great force against the surrounding building, equipment and people.

In order to address this Europe has introduced a safety directive called ATEX.

This provides for the release of this explosive force in a controlled manner. This normally consists of an explosion panel located in the side of the filter that opens like a pressure release valve.

All our applicable filters can be fitted with this system and certified to ATEX approval standard.

ATEX + VFV EXPLOSION RELIEF VENTING



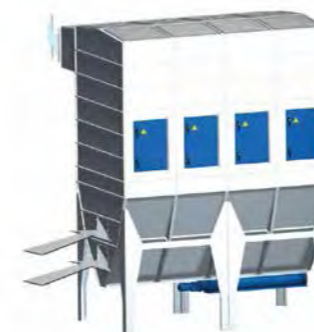
VFV explosion relief venting

In addition, to provide ultimate safety for you and your staff we can supply applicable filters with an enhanced system of safeguards.

One of the problems with explosion membranes as shown above is that risk of damage to building and injury to personnel in the vicinity of the filter still exists. While the filter remains in one piece, the hot gas, dust and fire that emerges from the filter can still injure.

We therefore can offer VFV explosion relief venting which releases the explosion into the clean air side of the filter. Explosion release vents are then fitted to the roof of the filter and any explosive dust is kept within the filter and only the shock wave is released to atmosphere. This eliminates the danger of secondary explosion and anyone near the filter at the time of explosion will not be exposed to heat or the shockwave.

MODULAR MMBF FILTER FITTED WITH VFV EXPLOSION VENTING



Provided the filter is located outside the building we believe this VFV vertical venting of the shockwave while containing the dust and heat is the best system currently available to protect you, your staff and colleagues.

Full details of both these safety systems are available. They are calculated according to VDI 3763, part 1 2002 and European Standard EN 14491:2002.

DUST FILTERS

A COMPLETE RANGE OF ENERGY LEADING FILTERS TO SUIT ANY DUST TYPE. MOST CAN BE FITTED WITH POWERPULSE® OPTIMUM CLEANING WITH LOWER ENERGY CONSUMPTION THAN OTHER COMPRESSED AIR BASED SYSTEMS.

Available to European Atex safety approval standards if required.



Filter type	Modular Filter	DustStorm Pulse Filter	Blower Jet Filter	SuperJet Filters	SuperBlower Energy Saving Filter
Air volume	1500m³/hour to 50,000m³/hour	1400m³/hour to 25,000m³/hour	1300m³/hour to 40,000m³/hour	34,000m³/hour to 53,800m³/hour	40,000m³/hour to 276,000m³/hour
Pressure type	Positive or negative pressure depending on type	Positive or negative pressure filter	Positive or negative pressure filter	Positive or negative pressure filter	Positive or negative pressure filter
Cleaning system	Antistatic bags as standard Reverse air regenerating fan option	PowerPulse® available. Market leading, energy saving, cleaning system. Filter access from clean side	PowerPulse® available. Market leading, energy saving, cleaning system. Individual bag cleaning gives very long filter bag life	PowerPulse® available. Market leading, energy saving, cleaning system. Individual bag cleaning gives very long filter bag life	PowerPulse® available. Market leading, energy saving, cleaning system. Large volumes of air and dust can be expanded with inserts
Compressed air requirement	N/A (Blower Fans)	5 bar	5 bar	6.5 to 8 bar	5 bar
Safety systems	Can be supplied with European Atex approved explosion membranes	Supplied as standard with full Atex approved explosion membranes	Supplied as standard with full Atex approved explosion membranes	Supplied as standard with full Atex approved explosion membranes	Supplied as standard with full Atex approved vertical explosion membranes
Other features	Low cost and low maintenance. Can be quickly expanded with business growth. Some units stocked for overnight delivery if required	Designed for continuous operation if required. Pulse cleaning either by simple, low cost electronic control or fully automatic sensor cleaning	Designed for continuous operation if required. Rotating arm cleans one filter bag at a time to maintain suction and results in long filter life	Inlet is 'partial down flow' for use when dust particles may damage filter socks Side or roof explosion venting	Designed to run in constant operation. Available with unique Coanda Inlet system - a highly efficient pre separator A very efficient low cost high volume duct filter system
Inlet	Into bottom of chamber below filter bags	Tangential Inlet	Tangential Inlet	Tangential Inlet	Tangential or settling chamber inlet
Discharge	Bags / Rotary Valve or scraper /screw or silo fitting	Conical or scraper system but silo fitting also available	Conical or scraper bottom but silo fitting also available	Scraper bottom with discharge to one or two rotary valves	Conical bottom with screw and rotary valve or scraper bottom with valve or bucket/container
Dust types	Most dusts but especially sawdust grain, seed, fertilizers and other similar dusts	Most high air volume dusts particularly suitable for cement, metal dusts, fine powders and dust types	Large Volume dust loads powders, grains rubber and other problem dust types	Very Large dust loads especially for timber and associated industries	Extremely large air and dust loads of all types
Filter Bag Access	Via easy access large doors maximum 30 bags per door so problem bag is never far from doorway	Roof opens like car bonnet giving access from clean air side of filter	From clean air compartment at top of unit	From clean air compartment at top of unit	From clean air compartment at top of unit
Operation	Short time or 24/7 operation	Short time or 24/7 operation	24/7 all year operation	24/7 high load all year	Very large scale all year operation
County of Origin	Made in Denmark and Malaysia	Manufactured in Denmark	Manufactured in Denmark	Manufactured in Denmark	Manufactured in Denmark

CYCLONES

Cyclones Type JA

- Cyclone Type JA is intended for separation of fine grain particles in transport and dust extraction plants.
- Cyclones are designed for high efficiency.
- Powder coating corrosion class C3
- Legs are non standard, but available as optional extras.
- Cleaning door in cone is an optional extra.

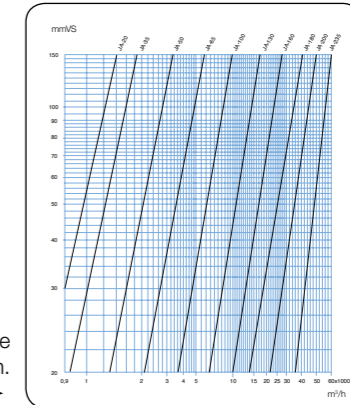


Diagram states pressure loss in cyclone at a given air volume measured in m³/h.



Cyclone Type CS

- Spiral Cyclones Type CS are used for air treatment plants in the wood and paper industries and for corn and feed to separate chaff and corn dust in exhaust air from drying and cleaning plants.
- They are made of rolled and riveted hot-dip galvanised sheet metal, but can be supplied in welded 2-3mm sheet.
- Type CS-20 is painted in RAL 5010.
- Cleaning door in cone is an optional extra.

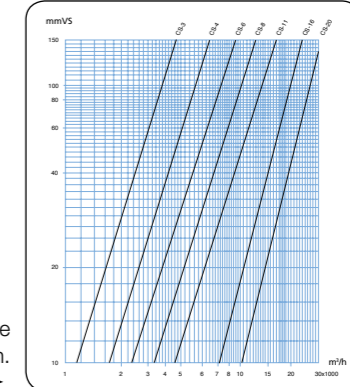
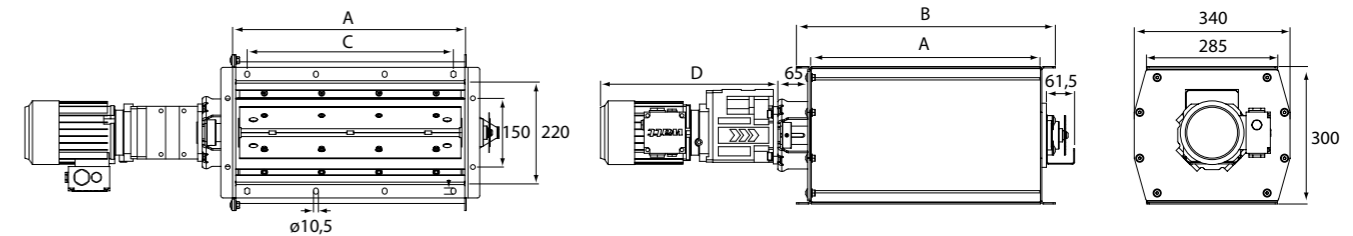


Diagram states pressure loss in cyclone at a given air volume measured in m³/h.



ROTARY VALVES



- Rotary Valves are fitted with a 6-bladed rotor with hard-wearing rubber blades bolted to the rotor shaft plate profiles.
- The rotor is separated from the rotor housing by rubber seals.
- The shaft is suspended on bearings and connected directly to the gear motor. Type JK200-S is also fitted with a safety coupling between rotor and gear motor.
- The rotor is made of 2mm plate and painted with industrial primer:
 - > Neoprene rubber blades for -10°C to max. 70°C
 - > Silicon rubber blades for 60°C to max. 250°C

Rotation Sensor

- Supplied as standard ready for fitting of rotation sensor.
- JK-S Rotary Valve is ATEX approved for category 2D.
- JK-EXS is approved for category 1D safety system



TYPE	A mm	B mm	D mm	C mm	WT Kg	MOTOR OUTPUT kW	AMP consumption at 400V	min-1	CAPACITY 50% FULL m³/h
JK-25S	250	315	387	1X150	45	0.55	1.38	20	10
JK-50S	500	565	387	3X150	59	0.55	1.38	20	20
JK-75S	750	815	387	4X150	73	0.55	1.38	20	32
JK-100S	1000	1065	416	6X150	94	0.55	1.38	20	42
JK-150S	1500	1565	416	9X150	122	0.55	1.38	20	63
JK-200S	2000	2065	416	13X150	165	0.55	1.38	20	83



CLEANING SYSTEMS

Various systems are used to clean the filter units depending upon filter type.

- PowerPulse Cleaning – market leading, low energy cleaning
- Blower cleaning
- Jet cleaning
- EC cleaning
- Regenerating fan cleaning

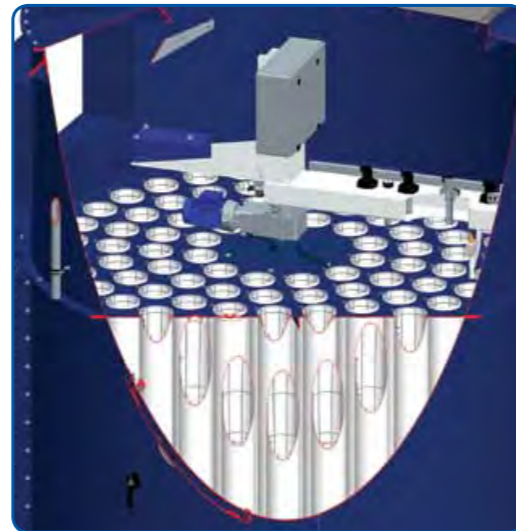
POWERPULSE CLEANING

The PowerPulse cleaning system uses compressed air pulsed from a moving arm on which the systems jets are mounted. The arm moves accurately from bag to bag dosing precisely the correct air pressure by measuring air velocity through the filter unit. One filter bag at a time is cleaned. The PowerPulse system uses low pressure of 1.5 to 3 bar only meaning low energy consumption, uniform filter cleaning and minimal wear on the filter media.

This system gives optimum cleaning with lower energy consumption than other compressed air based systems. PowerPulse is available for Blower, SuperBlower, DustStorm and SuperJet filters

The PowerPulse system is available with Atex Approval (European safety approval) and can be supplied with or without separate compressor in built 2.2kw maintenance – free compressor with a capacity of 350lt /minute.

PowerPulse is supplied with an electronic control systems that is CPU based and can communicate with most PC's and PLC's. The system can be configured to monitor all components in the cleaning system and any faults displayed on either the main control panel or the control unit.



BLOWER CLEANING

This is by means of a contra flow air flow in the filter bags. A high pressure blower passes cleaning air through special nozzles to the filter bags. These are mounted on a moving arm cleaning a given number of bags at a time depending upon filter model.

The main benefits of this system are the accurate delivery of the cleaning air and less wear on the filter media than most pulse type cleaning.



EC CLEANING

This system cleans filter bags using compressed air. 4 Filter elements at a time are cleaned by a single jet valve. These are specially designed jet nozzles sitting precisely above each filter element. The benefits of this system are

- Manual setting of pulse and pause times
- Can be controlled by an external pressure valve or simple electronic control system
- One or more 'end of use close down cleaning' to remove residual dust from the filter. End of use cleaning starts whenever the main fan is shut down
- Low cost for basic electronic system yet very flexible



REGENERATING BLOWER

This system is used for cleaning Modular Filters. One module at a time is regenerated as there are partition walls between each of the filters modules. The regenerating fan cycle is regulated depending upon filter load and dust volume. Cleaning is achieved by reversing the air flow and causing dust to become dislodged down the inside of the filter bags and into the bottom of the filter in the dust collection chamber. The regenerating fan is axial and designed to deliver high pressure during cleaning and low flow resistance when idle.

Shaker – or vibrating cleaning systems

We no longer offer this type of cleaning system in our filters as we believe one of the above cleaning systems will be far more efficient. For basic filters with no cleaning system operating, we use antistatic filter media as standard which we find gives better results for the same or less capital expenditure, and no maintenance required.

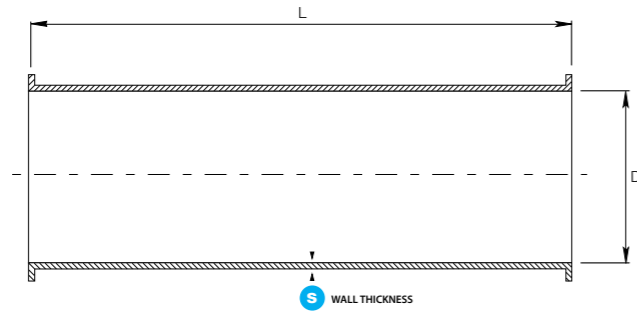


PowerPulse® cleaning

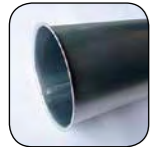


Regenerating Blower

STRAIGHT DUCT

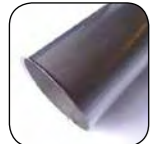


Galvanised Duct



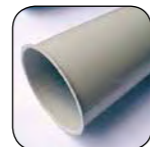
- Manufactured from finely galvanised Swedish steel for better resistance to rust
- Modular system with 5mm lip to lock together with chosen connector
- Easy to reconfigure and re-use

Stainless Steel



- AISI304 Stainless steel ideal for food applications
- Laser welded – no seam to trap particles
- 5mm lip to lock together with chosen connector

2mm Heavy Duty Powder Coated Steel



- Robust and wear resistant product where abrasive particles are being carried
- Ideal for saw mills, cement powder
- 5mm lip to lock together with chosen connector
- Can be incorporated with standard galvanised duct system
- Powder coated on outside (colour beige/cream)

Seed Duct

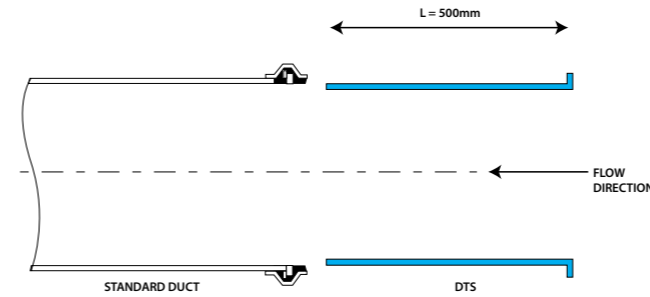


- Designed for pneumatic or mechanical conveyance of seed, grain plastic and paper
- 0.9mm thick walls in galvanised steel with rolled edge
- Tight assembly with Lever Lock Seed connectors

Inside Diameter D = mm	Galvanised Steel				Heavy Duty Powder Coated			Stainless Steel 304		Seed Duct	
	Wall Thickness S = mm	S = 0.75-0.9 mm depending on size			S = 2.0mm			S = 0.7mm		S = 0.9mm	
		L = 0.5m	L = 1.0m	L = 2.0m	L = 0.5m	L = 1.0m	L = 2.0m	L = 1.0m	L = 2.0m	Note Seed Duct available as D = 160mm OD	
80	0.75	D80/0.5	D80/1	D80/2	SO	SO	SO	SO	SO	DSEED160/0.5	L = 0.5m
100	0.75	D100/0.5	D100/1	D100/2	DH100/0.5	DH100/1	DH100/2	DS100/1	DS100/2	DSEED160/1	L = 1.0m
125	0.75	D125/0.5	D125/1	D125/2	DH125/0.5	DH125/1	DH125/2	SO	SO	DSEED160/2	L = 2.0m
140	0.75	D140/0.5	D140/1	D140/2	SO	SO	SO	SO	SO	OD = Outside Diameter	
150	0.75	D150/0.5	D150/1	D150/2	DH150/0.5	DH150/1	DH150/2	DS150/1	DS150/2		
160	0.75	D160/0.5	D160/1	D160/2	SO	SO	SO	SO	SO		
180	0.75	D180/0.5	D180/1	D180/2	DH180/0.5	DH180/1	DH180/2	SO	SO		
200	0.75	D200/0.5	D200/1	D200/2	DH200/0.5	DH200/1	DH200/2	DS200/1	DS200/2		
225	0.75	D225/0.5	D225/1	D225/2	DH225/0.5	DH225/1	DH225/2	SO	SO		
250	0.75	D250/0.5	D250/1	D250/2	DH250/0.5	DH250/1	DH250/2	DS250/1	DS250/2		
275	0.75	D275/0.5	D275/1	D275/2	SO	SO	SO	SO	SO		
300	0.75	D300/0.5	D300/1	D300/2	DH300/0.5	DH300/1	DH300/2	DS300/1	DS300/2		
350	0.75	D350/0.5	D350/1	D350/2	DH350/0.5	DH350/1	DH350/2	DS350/1	DS350/2		
400	0.9	D400/0.5	D400/1	D400/2	DH400/0.5	DH400/1	DH400/2	DS400/1	DS400/2		
450	0.9	D450/0.5	D450/1	D450/2	SO	SO	SO	SO	SO		
500	0.9	D500/0.5	D500/1	D500/2	SO	SO	SO	SO	SO		
550	0.9	D550/0.5	D550/1	D550/2	SO	SO	SO	SO	SO		
600+	SO	SO	SO	SO	SO	SO	SO	SO	SO		

SO Special Order allow 3-5days D = Diameter L=Length

TELESCOPIC DUCT



- Eliminates cutting and welding
- Saves time for installers if duct system distances change
- Telescopic Ducts are a single item 500mm long and ideal to fill gaps left that are less than 400mm. (They do not include the 0.5, 1.0 or 2.0m duct that it slips onto)
- Supplied with specially profiled rubber sealed Lever Locks
- Can be undone and adjusted as required

To install:

- Simply slip Telescopic section inside the 'down wind' section of duct run
- Slide Telescopic Duct up to meet 'Up wind' section and connect
- Secure Telescopic using Lever Lock provided



Inside Diameter D = mm	Wall Thickness S = mm	Galvanised Steel* L = 500mm all sizes
80	0.75	DTS80
100	0.75	DTS100
125	0.75	DTS125
140	0.75	DTS140
150	0.75	DTS150
160	0.75	DTS160
180	0.75	DTS180
200	0.75	DTS200
225	0.75	DTS225
250	0.75	DTS250
275	0.75	DTS275
300	0.75	DTS300
350	0.75	DTS350
400	0.9	DTS400
500	0.9	DTS500
550	0.9	DTS550

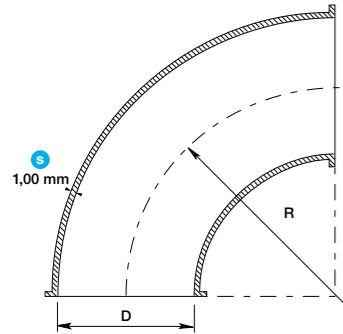
* Available only as galvanised

SAVE TIME FOR INSTALLERS!
NO CUTTING OR WELDING REQUIRED!



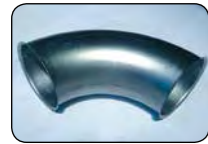
SMOOTH PRESSED BENDS

Benefits

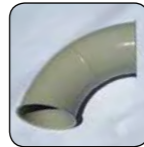


- **Reduce Pressure loss** – Smooth bends allow better airflow with less turbulence than segmented bends
- **Last longer** as they resist the flow of particles less, lower abrasion and no welds to open up
- **Save energy** and power costs for your extraction system
- Wide range sizes 80-400mm Diameter

Galvanised Bends



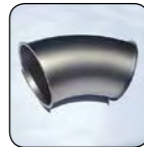
- Manufactured from finely galvanised steel for better resistance to rust
- 5mm lip to lock onto duct with chosen connector
- Smooth Pressed bends uniquely offered up to 400mm
- Wall thickness 1.0mm



2mm Heavy Duty Powder Coated Steel

- Robust and wear resistant in 2mm steel plate
- Can be used with galvanised duct for a longer lasting solution to 'problem' wearing bends
- 5mm lip to lock together with chosen connector
- Powder coated on outside (colour beige/cream)
- Manufactured in sections but is smooth bore

Stainless Steel



- AISI304 (EN1.4301) Stainless steel ideal for food applications
- Smooth pressed bends in sizes up to 200mm (250-400mm segmented)

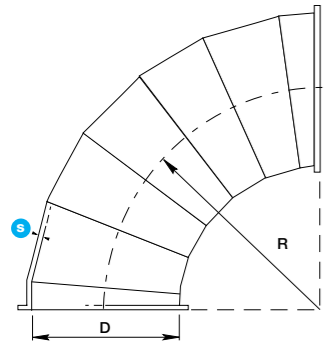
Seed Duct Range



- Hard wearing with 1.5mm on outside bend wall
- Longer radius (R=D x3 ie 480mm) to reduce transport damage and abrasion
- Outside powder coated (colour pale grey)

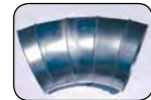


SEGMENTED BENDS



Galvanised Bends

Galvanised Bends from 450mm diameter are available as 'Segmented Bends'. While the airflow may not be quite as efficient, at these large diameters, it is less critical.



2mm Heavy Bends

2mm Heavy Bends are available as segmented in 225mm and 275mm.



Stainless Steel Bends

Stainless Steel Bends are segmented 250mm and above.



SMOOTH PRESSED & SEGMENTED BENDS TABLE

Inside Diameter	Galvanised Steel							Heavy Duty Powder Coated			Stainless Steel 304			Seed Duct		
	S = 1.0mm Segmented Bends S = 0.9mm							S = 2.0mm			S = 1.0mm up to 150mm D S = 1.5mm 200mm D Segmented Bends S = 0.8mm			S = 1.5mm outside wall S = 1.0mm inside wall		
	Radius = 1.5 x D							Radius = 1.5 x D			Radius = 2 x D			Radius = 3 x D (ie 480mm) Note Seed Duct available as D = 160mm OD		
	90°	60°	45°	30°	15°	7.5°	90°	45°	30°	90°	45°	30°	90°	45°	30°	
80	B80/90	B80/60	B80/45	B80/30	B80/15	B80/7.5	SO	SO	SO	SO	SO	SO	BSEED160/90	BSEED160/45	BSEED160/30	
100	B100/90	B100/60	B100/45	B100/30	B100/15	B100/7.5	BH100/90	BH100/45	BH100/30	BS100/90	BS100/45	BS100/30	SO	SO	SO	
125	B125/90	B125/60	B125/45	B125/30	B125/15	B125/7.5	BH125/90	BH125/45	BH125/30	SO	SO	SO	SO	SO	SO	
140	B140/90	B140/60	B140/45	B140/30	B140/15	B140/7.5	SO	SO	SO	SO	SO	SO	SO	SO	SO	
150	B150/90	B150/60	B150/45	B150/30	B150/15	B150/7.5	BH150/90	BH150/45	BH150/30	BS150/90	BS150/45	BS150/30	SO	SO	SO	
160	B160/90	B160/60	B160/45	B160/30	B160/15	B160/7.5	SO	SO	SO	SO	SO	SO	SO	SO	SO	
180	B180/90	B180/60	B180/45	B180/30	B180/15	B180/7.5	BH180/90	BH180/45	BH180/30	SO	SO	SO	SO	SO	SO	
200	B200/90	B200/60	B200/45	B200/30	B200/15	B200/7.5	BH200/90	BH200/45	BH200/30	BS200/90	BS200/45	BS200/30	SO	SO	SO	
225	B225/90	B225/60	B225/45	B225/30	B225/15	B225/7.5	*BH225/90	*BH225/45	*BH225/30	SO	SO	SO	SO	SO	SO	
250	B250/90	B250/60	B250/45	B250/30	B250/15	B250/7.5	BH250/90	BH250/45	BH250/30	*BS250/90	*BS250/45	*BS250/30	SO	SO	SO	
275	B275/90	B275/60	B275/45	B275/30	B275/15	B275/7.5	*BH275/90	*BH275/45	*BH275/30	SO	SO	SO	SO	SO	SO	
300	B300/90	B300/60	B300/45	B300/30	B300/15	B300/7.5	BH300/90	BH300/45	BH300/30	*BS300/90	*BS300/45	*BS300/30	SO	SO	SO	
350	B350/90	B350/60	B350/45	B350/30	B350/15	B350/7.5	BH350/90	BH350/45	BH350/30	*BS350/90	*BS350/45	*BS350/30	SO	SO	SO	
400	B400/90	B400/60	B400/45	B400/30	B400/15	B400/7.5	BH400/90	BH400/45	BH400/30	*BS400/90	*BS400/45	*BS400/30	SO	SO	SO	
450	*B450/90	*B450/60	*B450/45	*B450/30	*B450/15	*B450/7.5	SO	SO	SO	SO	SO	SO	SO	SO	SO	
500	*B500/90	*B500/60	*B500/45	*B500/30	*B500/15	*B500/7.5	SO	SO	SO	SO	SO	SO	SO	SO	SO	
550	*B550/90	*B550/60	*B550/45	*B550/30	*B550/15	*B550/7.5	SO	SO	SO	SO	SO	SO	SO	SO	SO	

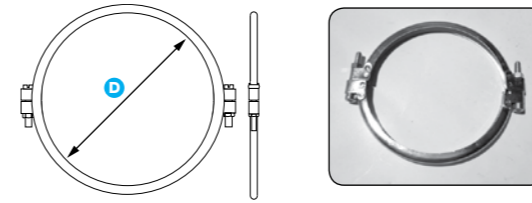
SO = Special Order (allow 3-5days) OD = Outside Diameter D = Diameter * Segmented

CONNECTORS



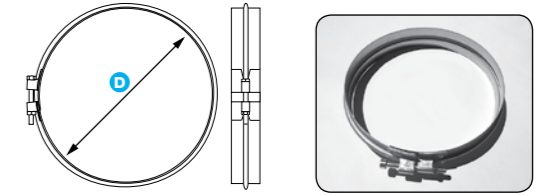
Our Modular ducting system can easily be connected at installation using the range of connectors below – and easily un-locked for inspection, cleaning or to re-use in a new duct layout.

Standard Locks SL 80-400mm



- Low cost, as two halves, nuts and bolts included
- Slim fitting electro galvanised (zinc plated)
- As they tighten, these pull the lips of the duct together to form a 99% airtight seal
- For a complete seal use Rubber gasket rings – see page 12

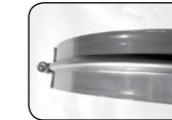
Wide Locks



- WL 200-700mm
- As duct diameters increase, so does the weight, and wide locks give more support
- We recommend the use of wide locks rather than standard locks for diameters over 200mm especially for a horizontal duct run



Heavy Standard Locks SLH 100-400mm are available for 2mm heavy duct. Electro galvanised and supplied as 2 halves with nuts, bolts and seals.

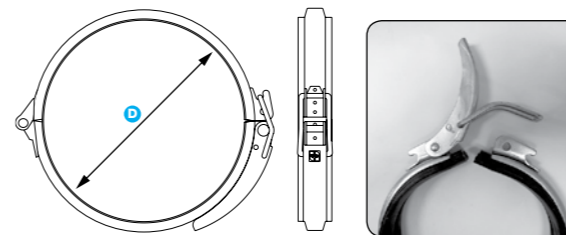


Stainless Wide Locks WLS 250-400mm these are available for use with the stainless duct straights and bends if stainless is required.



Stainless Standard Locks SLS 100-400mm are available for the stainless duct range. Supplied as two halves with nuts and bolts.

Lever Locks



- LL 80-550mm
- Ideal if a section of duct will be taken apart regularly
- Fitted with a wide air tight rubber seal which gives additional support to the duct
- Strong spring with heavy metal lever handle allows it to be opened manually with ease
- 450mm and over have a bolt type opening.



Heavy Lever Locks LLH 80-200mm are available for use with 2mm Heavy Duty duct range (above 400 uses bolt).



Stainless Lever Locks LLS 80-250mm are available for the Stainless Duct system – these are fitted with Food Grade silicon seals suitable for temperatures up to 275°C.

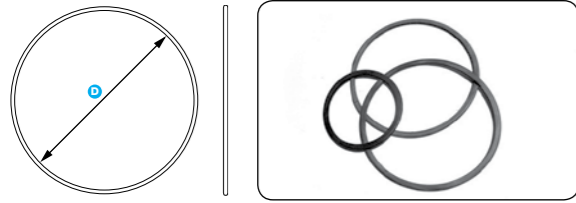


Lever Locks for Seed Duct – available for use with the 160mm Seed Duct range, the profile on these quick releasing Lever Locks ensures an air tight seal.



- ✓ EASY TO CONNECT WHEN INSTALLING
- ✓ EASY TO UNLOCK FOR INSPECTION OR CLEANING
- ✓ EASY TO REUSE
- ✓ EXCELLENT SEAL RIGIDITY

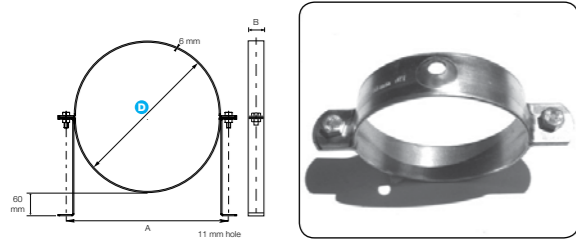
RUBBER GASKET RINGS



- **DES 80-300mm** (Duct End Seal)
- Made from EPDM rubber
- Use in conjunction with Standard Lock to give improved seal
- Fit seal over lip of one end of duct and connect as normal
- Use only ONE rubber ring per connection



HANGING BRACKETS



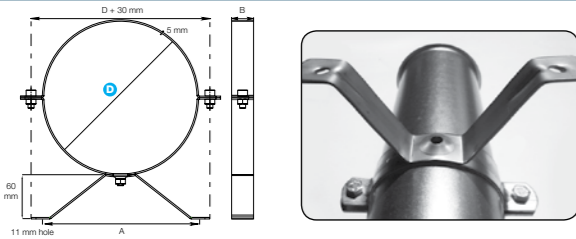
- **HB 80-300mm** 1mm steel thick
- **HB 350-550mm** 3mm steel thick
- Made to suit each duct diameter
- 2 semi circular rings that bolt together around duct
- Bracket can be connected to 'legs' for wall or floor or a threaded rod to hang from roof
- Complete with all nuts and bolts
- Legs order as separate item to bracket

Stainless Hanging Brackets

HBS 100,150,200 available for stainless range



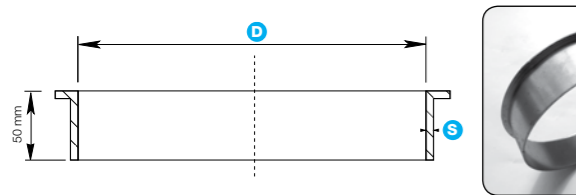
WALL BRACKET LEGS



- **WBL** for duct diameter 80-500mm
- **WBL160** for duct diameter 80-160mm
- **WBL300** for duct diameter 180-300mm
- Order WBL350, WBL400, WBL450, WBL500 for these specific sizes
- Used to support Hanging Brackets or off set duct from a wall
- Larger sizes can be purchased as Special Order



WELDING ENDS



- **WEH 80-400mm**
- 2mm steel plate – untreated s=2mm
- Designed to connect straight edge weld or pipe to our Lip Lock modular system
- Weld flat end on to existing system – the other end has our standard lip to lock onto any of our range



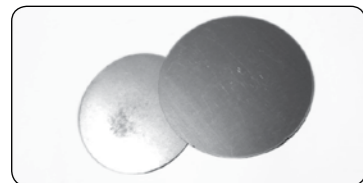
HOSE SPIGOTS



- **FHS 80-550mm**
- Use to join flex to modular Lip Lock galvanised duct system
- One end has 5mm lip to lock with connector of choice.
- Feature raised ring to give improved hold for flex



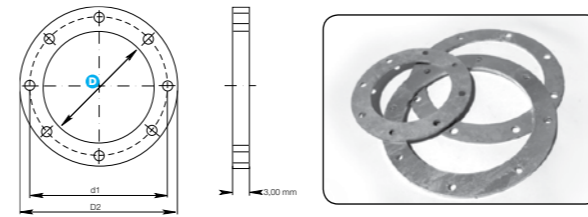
END DISC



- **ED 80-250mm**
- These blanks close off unused duct runs
- Fit End Discs with Standard Locks or Lever Locks



FLANGES



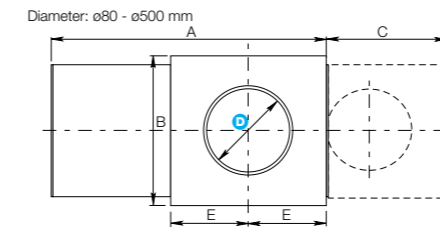
- **F 80-850mm**
- Made from hot galvanised flat iron or supplied untreated
- s= thickness in mm and varies with Diameter

Diameter Duct Run	D mm	D1 mm	D2 mm	Thickness S	Flange Width mm	Hole Size mm	Nuber of Holes
100	103	135	153	3.00	25	9	8
125	128	160	178	3.00	25	9	8
150	155	185	205	5.00	25	9	8
180	185	215	235	5.00	25	9	8
200	205	235	255	5.00	25	9	12
250	255	285	305	5.00	25	9	12
300	305	336	355	5.00	25	9	12
350	355	389	415	6.00	26	11	12
400	405	439	465	6.00	30	11	16

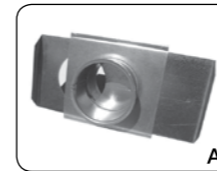


BLAST GATES (DAMPERS)

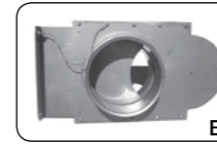
Manually Operated Blast Gates



Designed to close off the airflow to one duct at a time allowing the remaining duct system to get the benefit of the increased suction available.



- Close by hand but rely on staff remembering to reopen the closed gate when machines are turned back on

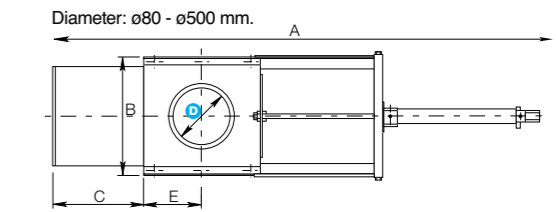


- Sealed Manually operated Blast Gates available by special order (Air freight 2 weeks, Sea freight 10 weeks)



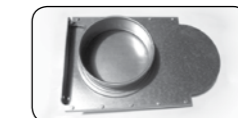
- **Standard Galvanised BG80-600 (A)**
- **Sealed Stainless Steel Blast Gates BGSS100-400** – All stainless steel Blast Gates are sealed (B)
- **Blast Gates with Flexible Hose spigots (Hose Tails) Standard Galvanised BGHT80-150 (C)**

Pneumatic Blast Gates



Standard Galvanised BG80SP-BG600SP

- Are like the manual version but are connected to the machine ON/OFF switch
- Supplied with pneumatic cylinder but no Solenoid (due to the permutations of voltage possibilities)
- Manufactured from 0.9mm Galvanised sheet metal with a 2mm Damper (Steel plate)



Seed Duct Range Blast Gates

- Available for 160mm Seed Duct range

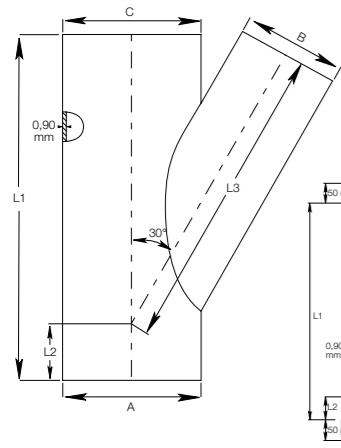
Diameter	Manually Operated Blast Gates (mm)					Manually Op With Flexible Hose Spigots	Manually Op Stainless Steel (Sealed)	Pneumatically Operated (mm)						
	S1	A	B	C	E			S1	A	B	C	E		
80	BG80	1.25	255	145	105	75	BGHT80	SO	BG80SP	1.25	550	145	100	75
100	BG100	1.25	340	185	150	95	BGHT100	BGSS100	BG100SP	1.25	800	185	160	95
125	BG125	1.25	340	185	150	95	BGHT125	SO	BG125SP	1.25	800	185	160	95
140	BG140	1.25	405	225	175	115	SO	SO	SO	1.25	975	225	200	155
150	BG150	1.25	405	225	175	115	BGHT150	BGSS150	BG150SP	1.25	975	225	200	115
160	BG160	1.25	405	225	175	115	SO	SO	SO	1.25	975	225	200	115
180	BG180	1.25	525	295	225	150	SO	SO	BG180SP	1.25	1180	295	250	150
200	BG200	1.25	525	295	225	150	SO	BGSS200	BG200SP	1.25	1180	295	250	150
225	BG225	1.5	590	325	270	160	SO	SO	SO	1.5	1365	325	300	160
250	BG250	1.5	650	350	300	175	SO	SO	BG250SP	1.5	1390	350	300	175
275	BG275	1.5	705	380	325	190	SO	SO	BG275SP	1.5	1725	380	400	190
300	BG300	1.5	755	400	345	205	SO	SO	BG300SP	1.5	1750	400	400	205
350	BG350	1.5	885	450	435	200	SO	SO	BG350SP	1.5	2000	450	400	200
400	BG400	1.5	960	500	460	250	SO	SO	BG400SP	1.5	2150	500	500	250
450	BG450	1.5	1050	550	500	275	SO	SO	SO	1.5	2225	550	500	275
500	BG500	1.5	1160	600	550	300	SO	SO	SO	1.5	2575	600	600	300

SO = Special Order (allow 3-5days)

L=130mm on all sizes

Sliding Damper = 2mm galvanised steel on ALL blastgates

BRANCH PIECES



BP80-350

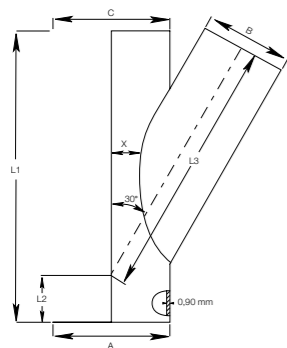
- Usually 30° angle to give least turbulence to air flow
- Regular sizes in stock ie 100-100-100, 350-350-350
- Any other size manufactured locally – allow 2-3 days depending on quantity

Reducing Branch Pieces

- Use when 2 sections of duct join
- Joining 2 sections of duct usually results in added airflow, so the size of continuing duct should increase. Use a reducing branch piece at this point
- Manufactured to order
- Allow us to assist in calculating required sizes
- Saves cost of separate reducers

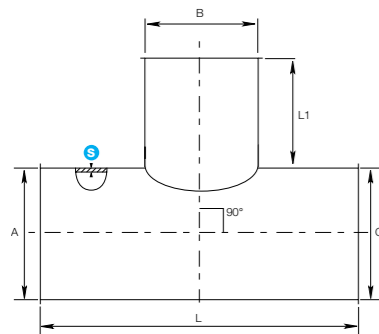


DUCT ENTRIES (SADDLES)



- Manufactured to order
- Advise main duct size and joining duct size

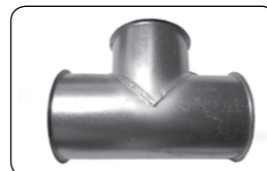
T PIECES



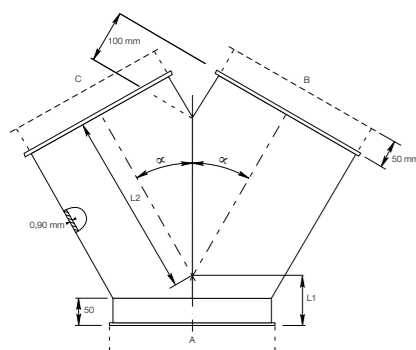
TP80-200

- Available in standard sizes $s = 0.9\text{mm}$
- Other sizes manufactured to order
- T pieces introduce air flow at 90° - we recommend using Branch pieces (30°) if possible

	A=B=C mm	L = mm	L1 = mm
TP80	80	230	75
TP100	100	250	75
TP125	125	275	75
TP150	150	300	75
TP200	200	350	75



Y PIECES (TROUSER LEGS)



YP80-250

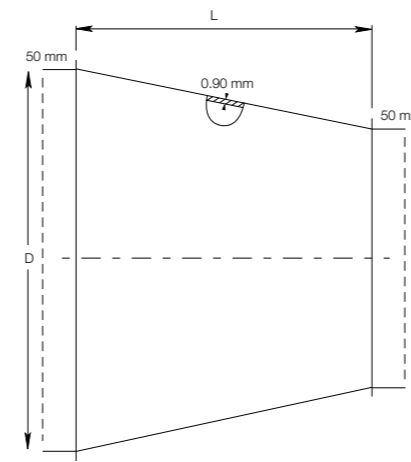
- Give both airflows equal priority and use to join two ducts of equal size
- Standard sizes 'off shelf' stock ie 80-80-80, 250-250-250, $s = 0.9\text{mm}$
- Other sizes manufactured to order

	A=B=C mm
YP80	80
YP100	100
YP125	125
YP150	150
YP180	180
YP200	200
YP250	250



$\alpha = 30^\circ \text{ or } 45^\circ$

REDUCING CONES/REDUCERS

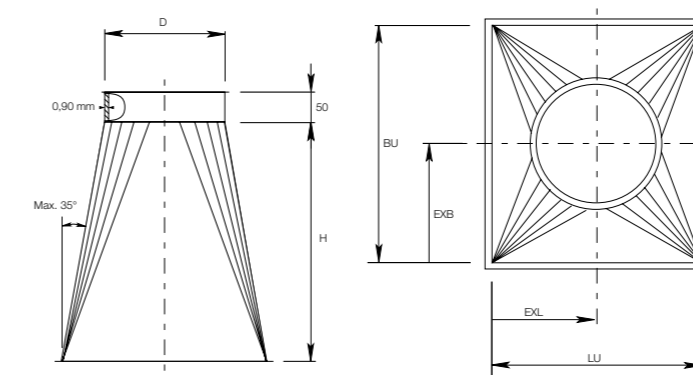


- $s = 0.9\text{mm}$
- Listed sizes available off shelf, overnight
- Other sizes manufactured to order, 3-4 days

	D mm	d = mm
RC100-80	100	80
RC125-100	125	100
RC125-80	125	80
RC150-125	150	125
RC150-100	150	100
RC150-80	150	80
RC180-150	180	150
RC180-125	180	125
RC200-180	200	180
RC200-150	200	150
RC200-125	200	125
RC200-100	200	100
RC200-80	200	80
RC225-200	225	200
RC250-225	250	225
RC250-200	250	200
RC250-150	250	150
RC250-100	250	100
RC300-250	300	250
RC300-125	300	125
RC300-100	300	100
RC400-350	400	350



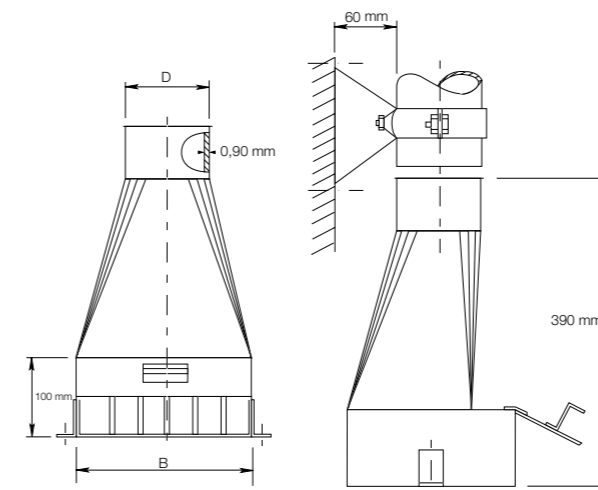
SQUARE TO ROUNDS



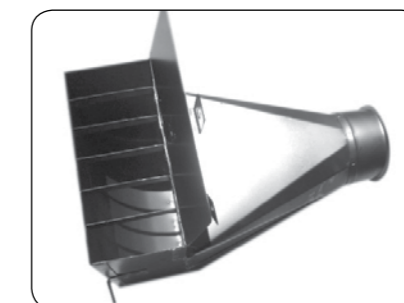
- Usually required above hoods, or fans
- Manufactured to order – please provide round duct internal diameter, size of square or oblong and required flange width



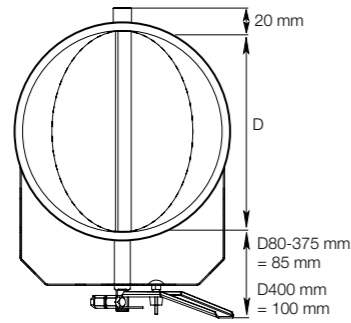
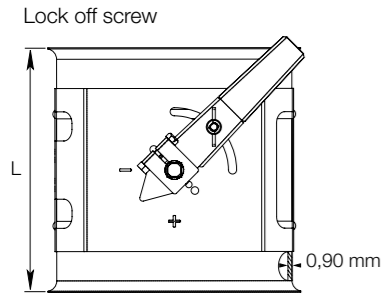
FLOOR SWEEPS



- Fitted with grill to prevent large items entering which may cause damage to duct system
- Ideal for schools, small joinery workshops and factories
- Popular sizes in stock ($s = 0.9\text{mm}$) and others available by Special Order



THROTTLE VALVES



Diameter	Throttle Valves Standard		
		L (mm)	Stainless Steel
80	TV80	125	TVS080
100	TV100	125	TVS100
125	TV125	135	SO
140	TV140	170	SO
150	TV150	170	TVS150
160	TV160	170	SO
180	TV180	210	SO
200	TV200	210	TVS200
225	TV225	240	SO
250	TV250	265	SO
275	TV275	290	SO
300	TV300	315	SO
350	TV350	365	SO
400	TV400	415	SO
450	TV450	465	SO

SO = Special Order (allow 3-5days)



Galvanised Throttle Valves

- TV80-450
- Butterfly valves to regulate the air flow
- Pneumatic Electric Throttle valves available by Special Order

Stainless Throttle valves

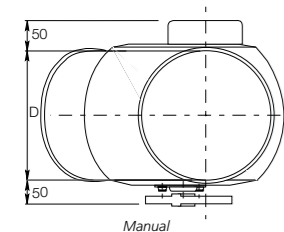
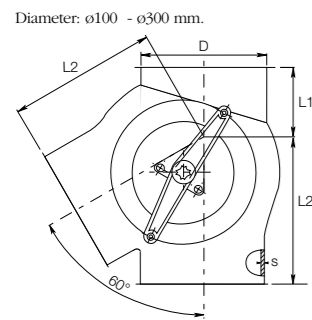
- TVS080-200

DIVERTER VALVES - BRANCH TYPE



DVB80-250

- Divert duct into choice of two eg. fitted as a switch for two filter points or bag filling positions
- Manually operated but can be fitted with Pneumatics or specially ordered
- Damper suspended on brass bearings
- Branch at 60° angle, supplied with LEFT branch
- Powder coated steel



Diameter	Diverter Valves Branch Type – 60° Manual			
		S1	C	E
80	SO			
100	DVB100	1.5	70	145
125	DVB125	1.5	90	170
140	SO			
150	DVB150	2.0	100	190
160	SO			
180	DVB180	2.0	195	315
200	DVB200	2.0	110	230
225	SO			
250	DVB250	2.0	135	270
275	SO			
300	DVB300	2.0	160	325
350	SO			
400	SO			
450	SO			

SO = Special Order (allow 3-5days)

FANS - IN STOCK

- Manufactured by JKF Industri Denmark
- All fan noise and pressure Graphs available by ringing 0508 69 38 28 or download directly from www.jkf.dk
- All fans finished in blue (RAL 5010) powder paint min 80µm over primer 70µm



Material Handling Direct Drive

- **Stocked in New Zealand for overnight delivery** (allow 2-3 days South Island)
- Direct Drive fans designed for material handling
- Self cleaning impellers with backward inclined blades statically and dynamically balanced

Model Number	Inlet Size mm	Motor Size kW	Max RPM	Air Volume m³/h	Pressure mmWG	Power Supply	Delivery
FAN JK20D	220	1.1	3,200	750-1,800	110-155	230V-50Hz	8 weeks*
FAN JK22D	250	2.2	3,200	1,000-3,100	130-200	230V-50Hz	Overnight
FAN JK25D	250	4	3,200	1,500-4,500	160-240	400V-50Hz	Overnight
FAN JK30D	300	5.5 or 7.5	3,200	2,500-6,500	200-290	400V-50Hz	Overnight
FAN JK35D	350	11 or 15	3,200	3,000-8,500	260-375	400V-50Hz	Overnight
FAN JK40D	400	18.5 or 22	3,200	5,000-11,000	340-440	400V-50Hz	Overnight

FANS AVAILABLE BY SPECIAL ORDER (3 TO 8 WEEKS DELIVERY)



Clean Air Direct Drive

- Designed for transport of clean air, or as fan from negative pressure filters
- With backward inclined blades statically and dynamically balanced

Model Number	Inlet Size mm	Motor Size kW	Max RPM	Air Volume m³/h	Pressure mmWG	Power Supply	Delivery
FAN 30MTD	300	4	3,575	2,000-6,000	120-330	230/400V 50Hz	3-8 weeks
FAN 40MTD	400	11	3,575	2,500-14,000	120-460	400/690V 50Hz	3-8 weeks
FAN 50MTD	500	18.5	3,575	2,500-22,000	160-590	400/690V 50Hz	3-8 weeks



Material Handling Indirect Drive

Model Number	Inlet Size mm	Motor Size kW	Max RPM	Air Volume m³/h	Pressure mmWG	Power Supply	Delivery
FAN 45K	450mm	18.5kw-30kw	2,450	6,000-20,000	180-520	400V 50Hz	3-8 weeks
FAN 55K	550mm	30kw-55kw	2,350	8,000-29,000	160-600	400V 50Hz	3-8 weeks
FAN 75K	750mm	55kw-75kw	2,050	25,000-40,000	200-370	400V 50Hz	3-8 weeks



Fans for concentrated handling over long distances

Model Number	Inlet Size mm	Motor Size kW	Max RPM	Air Volume m³/h	Pressure mmWG	Power Supply	Delivery
FAN T200K	200mm	15kw-22kw	2,900	2,000-5,500	250-750	400V 50Hz	3-8 weeks
FAN T300K	300mm	22kw-37kw	2,900	5,000-13,000	350-1,000	400V 50Hz	3-8 weeks



Clean Air Indirect fans

Model Number	Inlet Size mm	Motor Size kW	Max RPM	Air Volume m³/h	Pressure mmWG	Power Supply	Delivery
FAN 60/70/80/90 MTD	600-900mm	45kw-90kw	1770-1800	4,000-76,000	180-550	400V 50Hz	3-8 weeks

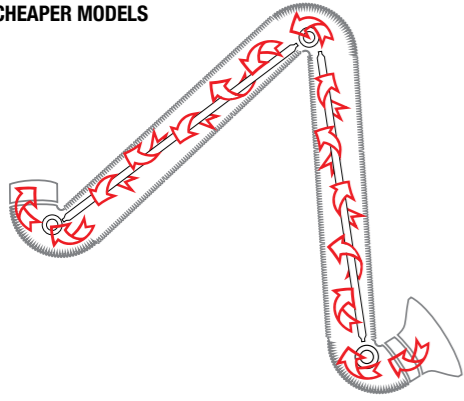


High Pressure fans for transport of grain or similar with density of 0.2 to 1.2 tons/m³

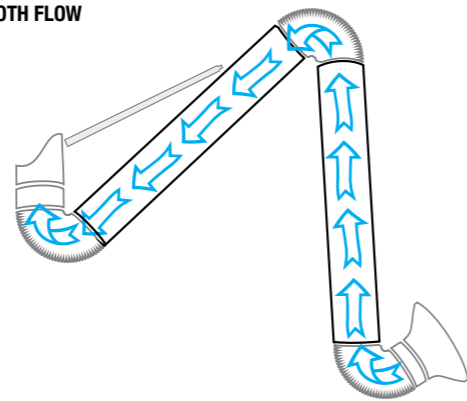
Model Number	Duct Size mm	Motor Size kW	Max RPM	Air Volume m³/h	Pressure mmWG	Power Supply	Delivery
FAN 2/HT 4/HT 5/HT 7/HT 10/HT 15/HT	160mm	1.5KW-11KW	2,850		250-1,300	400V 50Hz	3-8 weeks

FUMES ARMS - SMOOTH FLOW

CHEAPER MODELS



SMOOTH FLOW



- **External joints** allow smooth air flow and lower static pressure
- No internal build up on hinges etc
- European quality with durable external cast aluminium joints
- Damper included on all models
- Self supporting, easy to position pivotal joints –top 360deg swivel with safety stop

Standard

- Heavy Duty Galvanised tubes powder coated in blue
- Metal Hoods – (Aluminium) powder coated in yellow

Stainless Steel

- Stainless Steel 304 Hood
- Stainless Steel 304 Tubes

	Tube Diam mm	Hood Diam mm	Horizontal Reach mm	Vertical Reach mm
STANDARD				
FUME 075/1.5	75	160	1515	1600
FUME100/2	100	200	2000	2125
FUME125/3	125	250	2745	2930
FUME160/3	160	315	2830	3010
FUME160/4	160	315	3630	3810
STAINLESS				
FUMESS100/2	100	200	2000	2125
FUMESS125/3	125	250	2745	2930
FUMESS160/3	160	315	2830	3010



FUME BOOM

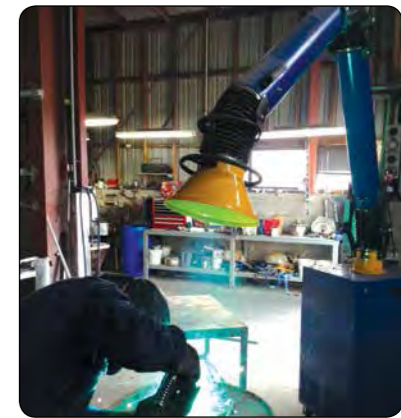


- Extension booms, fold flat against the wall, capable of 2/3/4m reach
- Can support Fume Arms to give radius reach of up to 8 metres

FUME CUBE



- Designed to filter dry impurities in welding, grinding/ polishing metals, plastics
- Ideal where continuous use is not required
- Very quiet operation
- Strong welded steel housing
- Aluminium mesh pre- filter which protects cartridge from sparks
- Replaceable cellulose main cassette filter (Class 7) recommended for 500 hour life
- Easy to position (castor wheels including locks)
- Use with Standing Fume Arm 160mm mounted on top of unit
- 1000m³ at hood
- 1.1kW motor included
- Requires 3 phase supply



FUME ARM FANS



- Designed for non-explosive and chemically neutral air and gas.
- European quality powder coated welded sheet iron
- Aluminium impellers mounted directly on motor shaft
- 0.7kw motor for use with 160mm Fume Arm
- Includes fan inlet connection collar and wall mount bracket
- Very quiet – can be mounted inside or outside working area
- Requires 3 phase supply

GARAGE EXHAUST REELS



- Ideal for extraction of car and truck exhaust gases at tailpipe in conjunction with Duct/Fan extract system
- Suitable for Vehicle Service garages
- Flexible hose allows extraction of gas and air mixture to max. temperature 150° (or intermittently to 170°C)
- A spring mechanism is housed in one of the steel reel side plates which allows the flex to be unrolled easily
- Flex automatically retracts
- Stainless Steel Nozzle
- Sizes 100 | 150 | 200 DIA (special order)

WHEN ONLY THE BEST FLEX WILL DO

We source our flex from Germany for optimum quality and performance. With high quality production control, the best raw materials, and a wide range of sizes, means our range of flexible ducting will meet most fume extraction needs.

Our well earned reputation for providing quality flex means that our customers continually return to us – they buy ‘our’ flex because it lasts.

Most of our flex products are designed to be as smooth as possible on the inside to promote easy airflow and discourage particle entrapment.



Antistatic Range

All the flex in our Antistatic Polyester Polyurethane range is naturally antistatic ie. the static charge flows through the material itself. Because it is manufactured with a compound within the actual wall material, the usual need to earth the helix wire is not as essential as any static build up will discharge to ground via the connecting metal components. We recommend you earth the helix wire for added protection in very dry conditions.

Polyester polyurethane flex is generally more resistant to abrasion, chemicals and is lighter than similar diameter PVC flex, but the biggest advantage is you will not receive a ‘belt’ from touching it.

Antistatic flex should always be chosen where potentially explosive material eg. sawdust, flour, sugar are being extracted.



Minimum Order

The range is mostly available in 10m lengths and there are discounts for purchasing complete coils or 10 metre rolls.

We cut in whole metre increments ie 1m, 2m, 6m etc.

Returns Policy

We will always endeavour to assist you in choosing the best flex to meet your needs when you place your order, however we regret we cannot accept returns of flex once it has been dispatched. Flex can be damaged invisibly and it is our policy that every customer should receive their flex in excellent ex-factory condition.

Why buy our flex?

- Feel the World Leading Quality
- Wide range with flex available for specific applications
- Overnight Delivery (large diameters to South Island allow 2-3 days)
- **Because you need it to last!**

WORKING PRESSURE/VACUUM CHARTS

Maximum Working Pressure (Bar)

Diam mm ID	Antistatic Polyurethane					PVC-CLEAR			Food Grade	Garage Flex	Chem/Fume Flex	High Temp Flex
	Light	Medium	Heavy	Xtra Hvy	CNC	Light	Heavy	Agri Flex				
25	0.65	1.65				0.45	1.70		1.65			
32	0.60		2.10			0.40			1.50		0.40	
40	0.50	1.40	2.00	2.30		0.40	1.40		1.40		0.35	
52	0.40	1.30	1.80			0.35	1.30		1.30		0.35	0.85
63	0.40	1.10	1.60			0.35	1.10				0.35	0.68
76	0.30	0.80	1.40			0.30	1.00	1.10	0.80		0.20	0.47
82	0.28	0.70	1.20			0.25	0.80	1.00	0.70		0.20	0.43
90		0.65										
102	0.20	0.60	1.00	1.10		0.20	0.60	1.00	0.60	N/A	0.15	0.30
110							0.50					
120	0.20	0.50										
127	0.20	0.40	0.75			0.15	0.40	0.70	0.40		0.13	0.21
140	0.15	0.30	0.60									
152	0.10	0.25	0.50	0.70		0.08	0.25	0.50	0.25		0.11	0.16
160	0.09	0.25	0.50									
180	0.09	0.25	0.45		0.22	0.06	0.25	0.40			0.09	
203	0.08	0.20	0.35		0.20	0.05	0.20		0.20		0.08	0.10
229	0.06	0.20	0.30			0.04						
254	0.05	0.15	0.25		0.15	0.03	0.15				0.07	0.70
279	0.04	0.13										
305	0.03	0.12	0.20			0.03					0.05	
356	0.02	0.10	0.15			0.02					0.04	
406	0.02	0.08	0.10			0.02					0.04	
457	0.01					0.01					0.03	
508	0.01					0.01					0.03	

Maximum Vacuum (Bar)

Diam mm ID	Antistatic Polyurethane					PVC-CLEAR			Food Grade	Garage Flex	Chem/Fume Flex	High Temp Flex
	Light	Medium	Heavy	Xtra Hvy	CNC	Light	Heavy	Agri Flex				
25	0.30	0.40				0.22	0.45		0.40			
32	0.30		0.50			0.20			0.35		0.20	
40	0.25	0.30	0.45	0.70		0.18	0.30		0.30		0.15	
52	0.20	0.28	0.40			0.15	0.28		0.28		0.10	0.32
63	0.16	0.25	0.35			0.14	0.25				0.08	0.22
76	0.14	0.20	0.35			0.10	0.20	0.15	0.20		0.07	0.14
82	0.10	0.18	0.30			0.09	0.18	0.15	0.18		0.06	0.13
90		0.16										
102	0.09	0.15	0.30	0.40		0.08	0.15	0.13	0.15	0.10	0.05	0.08
110							0.14					
120	0.08	0.15										
127	0.08	0.12	0.25			0.06	0.12	0.11	0.12		0.04	0.05
140	0.06	0.12	0.20									
152	0.06	0.10	0.20	0.20		0.05	0.10	0.10	0.10		0.04	0.04
160	0.06	0.10	0.18									
180	0.05	0.10	0.15		0.9	0.04	0.10	0.10			0.03	
203	0.05	0.09	0.12		0.8	0.03	0.09		0.09		0.02	0.02
229	0.04	0.09	0.10			0.03						
254	0.04	0.06	0.10		0.6	0.03	0.08				0.02	0.01
279	0.03	0.06										
305	0.03	0.06	0.09			0.02					0.01	
356	0.02	0.04	0.09			0.02					0.01	
406	0.02	0.03	0.08			0.01					0.01	
457	0.01					0.01					0.01	
508	0.01					0.01					0.01	
508	0.01					0.01					0.03	
508	0.01					0.01					0.03	



POLY LIGHT

Code	POLYLGHT025-POLYLGHT508
Temperature Range	-40° - 100°C
Description	Polyester Polyurethane
Wall Thickness	0.4mm
Colour	Clear with copper wire helix
Uses	<ul style="list-style-type: none"> • Ideal for fumes, powders and fine sawdust etc • Excellent flexibility • Antistatic R<10⁸ Ohm – normally no need to ground wire

WITH OUR ANTISTATIC FLEX, THE STATIC CHARGE FLOWS THROUGH THE MATERIAL ITSELF.



POLY MEDIUM

Code	POLYMED025-POLYMED406
Temperature Range	-40° - 100°C
Description	Polyester Polyurethane
Wall Thickness	0.5mm<100mm, 100mm and over 0.6mm
Colour	Opaque with white coated wire helix
Uses	<ul style="list-style-type: none"> • Ideal for light materials, paper, sawdust, shavings • General transport of particles • Smooth bore • Antistatic R<10⁸ Ohm – normally no need to ground wire

WITH OUR ANTISTATIC FLEX, THE STATIC CHARGE FLOWS THROUGH THE MATERIAL ITSELF.



POLY HEAVY

Code	POLYHVV032-POLYHVV406
Temperature Range	-40° - 100°C
Description	Polyester Polyurethane
Wall Thickness	<100mm 0.9mm 100-203mm 1.1mm 250mm and over 1.3mm
Colour	Opaque with cream wire helix
Uses	<ul style="list-style-type: none"> • Ideal for suction and transport of abarasive materials • Transport of granules, wood chip and grain • Ideal for industrial sweepers, lawn mowers • Smooth bore • Antistatic R<10⁸ Ohm – normally no need to ground wire

WITH OUR ANTISTATIC FLEX, THE STATIC CHARGE FLOWS THROUGH THE MATERIAL ITSELF.



POLY EXTRA HEAVY

Code	POLYEXTRAHV040,100,150
Temperature Range	-40° - 100°C
Description	Polyester Polyurethane
Wall Thickness	1.4mm
Colour	Opaque with green helix
Uses	<ul style="list-style-type: none"> • Ideal for transport of air, fumes, wood chips, grain and other very abrasive materials • Good for transport under high vacuum/ pressure • Good resistance to oil and petrol • Smooth bore • Antistatic R<10⁸ Ohm

WITH OUR ANTISTATIC FLEX, THE STATIC CHARGE FLOWS THROUGH THE MATERIAL ITSELF.



CNC FLEX

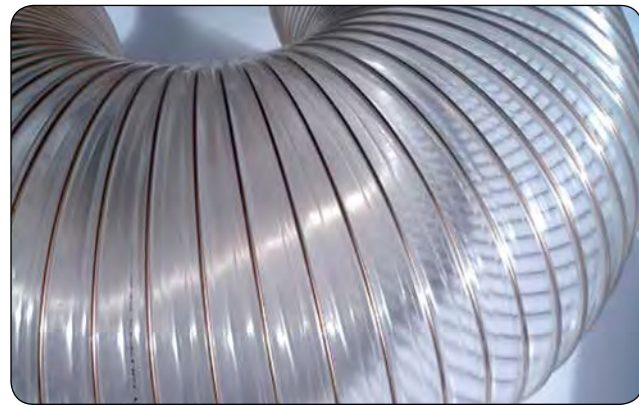
Code	CNCPOLY180,200,250
Temperature Range	-40° - 100°C
Description	Polyester Polyurethane
Wall Thickness	0.8mm
Colour	Opaque with wide spaced cream helix
Uses	<ul style="list-style-type: none"> • specially designed for movement of woodworking CNC machines • Very flexible but durable • Does not implode under CNC suction • Smooth bore – good abrasion resistance • Antistatic R<10⁸ Ohm

WITH OUR ANTISTATIC FLEX, THE STATIC CHARGE FLOWS THROUGH THE MATERIAL ITSELF.



HOSE CLAMPS

Code	WDCS 80-300
Temperature Range	-60-300°C
Description	Stainless Steel 304
Notes	Can be ordered to fit flex size



CLEAR LIGHT

Code CLEAR025-CLEAR508
Temperature Range 0° - 70°C
Description PVC
Wall Thickness 0.4mm
Colour Clear with wire helix
Uses

- Ideal for suction of fumes, light fibres, air conditioning and ventilation, protecting cables in conduits
- Excellent flexibility
- Excellent compressibility



CLEAR HEAVY

Code CLEARHVV025-CLEARHVV254
Temperature Range 0° - 70°C
Description PVC
Wall Thickness 0.8mm
Colour Clear with white coated wire helix
Uses

- Ideal for industrial vacuum cleaners, material handling conduit and protection
- Very versatile and solid construction
- Smooth bore



FOOD GRADE FLEX – FDA/EU APPROVED

Code FOOD025-FOOD203
Temperature Range -40° - 100°C
Description POLYETHER - POLYURETHANE
Wall Thickness <100mm 0.5mm, 100-203mm 0.6mm
Colour Clear with white coated wire helix
Uses

- Ideal for suction and conveyance of food powders and products
- Material is FDA and EU approved for food use
- Resistant to microbes and hydrolysis
- Non toxic
- Non anitistatic



HIGH TEMPERATURE FLEX

Code HIGHTEMP052 – HIGHTEMP254
Temperature Range -60° - 300°C
Description Silicon coated glass fabric with external helix
Wall Thickness 0.4mm
Colour Silver with steel external helix
Uses

- Ideal for suction of hot gases in all fields of industry, glass, plastic moulding, hot exhausts, engines
- Light weight and very flexible
- Good temperature, UV and ozone resistance
- Flame retardant, excellent axial compressibility



CHEM/FUME FLEX

Code UV032-UV508
Temperature Range -40° - 150°C
Description TPE COATED POLYESTER
Wall Thickness 0.4mm
Colour Black
Uses

- Ideal for suction of chemical fumes and gases, air conditioning, vehicle construction
- Very good resistance to acids, UV, Ozone resistant, rot proofed
- Withstands severe flexing



AGRI FLEX

Code AGRIFLEX075-AGRIFLEX180
Temperature Range 0° - 60°C
Description PVC
Wall Thickness < 150mm 1.0mm
 150mm 1.1mm
 180mm 1.2mm
Colour Grey with rigid PVC helix ie no metal wire
Uses

- Ideal for transport of fertilisers, air, suction of light vine leaves
- Smooth bore
- Medium weight and solid



GARAGE FLEX

Code GARAGE075, 102, 150
Temperature Range -40° - 150°C Intermittent to 170°C
Description TPE Coated Polyester, Helix PA6.6 Heat Stabilized
Wall Thickness 0.4mm
Colour Black with black wear strip ie no metal wire
Uses

- Ideal for suction of exhaust gases
- Excellent chemical resistance especially against oil and petrol fumes
- Crush recoverable
- Ideal for over the floor applications with reel systems

OUR BUSINESS IS IN PROVIDING THE PARTS THAT GIVE YOU THE BEST SOLUTION

New Zealand Duct & Flex are committed to assisting you find the solution to your individual installation requirements.
Please ask us how we can help you.



New Zealand Duct & Flex 13F Saleyards Road, Otahuhu, Auckland 1062

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