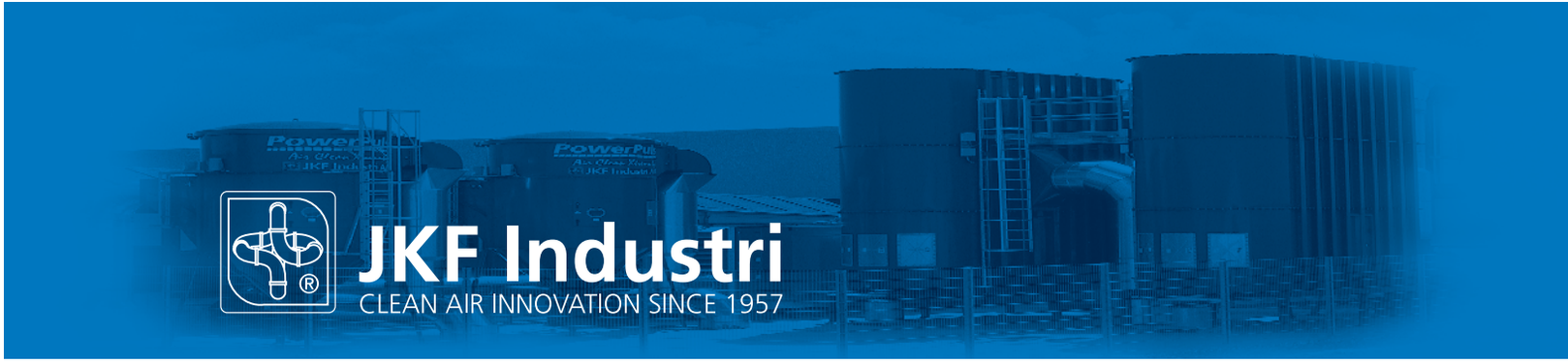


JKF Industri

CLEAN AIR INNOVATION SINCE 1957

JKF duct systems, stainless steel product programme

Sales, delivery and payment terms

1. Validity
These sales, delivery and payment terms apply to all offers, orders and deliveries unless otherwise agreed in writing.

2. Offer
All offers are made subject to the goods being unsold. If JKF Industri makes an offer that does not stipulate a specific time for acceptance, the offer will expire if acceptance is not submitted by the purchaser within 8 weeks of the date of the offer.

3. Price
All prices are in DKK and do not include VAT. For countries that are members of the single currency, prices are stated in EUR.

4. Payment
Payment terms are 14 days – 1,5% cash discount of item price excl. VAT or current month + 20 days net calculated from the date of invoice unless otherwise agreed in writing.
If payment is made after the due date, and the delay is no fault of JKF Industri's, JKF Industri is entitled to charge interest on the sum outstanding as from the due date, at a rate equivalent to 1,5% per month or part month.
The purchaser is not entitled to offset any counterclaims against JKF Industri that have not been recognized in writing by JKF Industri, and does not have the right to withhold any of the purchase by reason of counterclaims of any kind.

5. Retention of title
JKF Industri reserves the right, with the limitations resulting from mandatory laws, to retention of title to the item sold until payment of the entire purchase sum, plus any costs incurred, to JKF Industri.
If the item has been sold with a view to later being built into or joined to other objects, the item sold is not covered by the right of retention once that installation or joining has taken place.

6. Delivery
Unless otherwise agreed in writing between the parties, the stated delivery times are EXW JKF Industri's address, with reservation for any delays. In use of EXW, the goods are considered delivered and the order executed from the moment the goods are issued from JKF Industri's warehouse.
Unless otherwise agreed in writing between the parties, JKF Industri has the authority to order the transport on the usual conditions on behalf of the purchaser. The purchaser will continuously bear the risk that transport can be obtained, and if transport cannot be obtained, the goods are considered as delivered from the moment when JKF Industri has given the purchaser access to collect the goods. Dispatch is at the receiver's expense and risk. Any transport insurance is the responsibility of the purchaser. The delivery stipulations agreed between the parties are to be interpreted with reference to the INCOTERMS current at the time of signing the agreement.
The delivery date is set by JKF Industri to the best of their judgment, and if this cannot be kept to, the purchaser will be informed of this and of when, as far as possible, the delivery can be expected to take place. A delay does not give the purchaser the right to cancel the purchase.

7. Packaging
Packaging may only be returned by prior agreement. Return of packaging is at the purchaser's expense and risk.
The purchaser's packaging will be credited after reception and approval of the packaging.

8. Product information
All illustrations, technical drawings and brochures issued by JKF Industri before or after the agreement has been entered into remain the property of JKF Industri, and must be returned to JKF Industri on request. The aforementioned materials may not be passed on without written agreement or misused in any other way.

9. Defect liability in accordance with the Danish Sale of Goods Act and notification of defects
On delivery the purchaser must immediately carry out an examination of the goods in accordance with the Danish Sale of Goods Act. For a period of 12 successive months after delivery has taken place, JKF Industri undertakes to carry out replacement deliveries if there are defects in the order due to material or manufacturing faults.
Defects in goods will be either remedied or replaced at JKF Industri's discretion.
Modification of or interference with the goods without JKF Industri's written consent releases JKF Industri from any obligation.
If the purchaser wishes to complain about any defects, a written claim must be submitted without undue delay, and no later than 14 days after delivery had taken place. JKF Industri is entitled to reject any claims received after expiry of the period stated above.
If JKF Industri receives a prompt claim concerning a defect that is deemed to be covered by these regulations, JKF Industri will remedy the defect without delay.
JKF Industri offers the right for remedy of defects for parts of the order that have been replaced or repaired under the same terms and on the same basis as for the original order. JKF Industri's obligation to remedy defects does not, however, apply to any part of an order more than 1 year after delivery to the purchaser.
Once liability for the order has transferred to the purchaser, JKF Industri bears no responsibility for any defects over and above the obligations specified in these terms.
JKF Industri thus expressly renounces responsibility for any indirect loss such as operating loss, loss of time, loss of profits, etc. that the defect may have caused the purchaser.
Any compensation claim against JKF Industri may not exceed the invoice amount for the product sold.
JKF Industri is not liable for any operating loss, loss of profits or other indirect loss in consequence of the agreement, including indirect losses arising as a result of delays or defects with regard to the goods sold.
The following circumstances are intended as examples of events resulting in exemption from liability should they occur after the signing of the contract and prevent its fulfilment:
Industrial disputes, strikes, lockout or any other circumstance outside the control of the parties such as fire, war, mobilisation, unexpected military call-up, acts of sabotage, requisitioning, confiscation, currency restrictions, import ban, export ban, riots, unrest, fuel shortage, general scarcity of goods, restrictions in power supplies and defects in deliveries from sub-suppliers or delays with such deliveries as a result of any of the aforementioned circumstances.
It should be specifically noted that the above is not an exhaustive list of examples, and there may be other examples that come under limitation of liability.
If delivery is temporarily delayed by one or more of the aforementioned circumstances, the delivery time will be correspondingly postponed.

10. Return
Items sold will only be accepted for return by prior agreement. Return will be at the purchaser's expense and risk and should include reference to JKF Industri's invoice no. and the date of the original delivery.
Returned items will be credited after inspection by the Goods Received department, normally at 85% of the invoice price less costs for inspection and preparation.
If JKF Industri is charged for shipping costs etc., JKF Industri is entitled to demand these be refunded by the purchaser and to offset these against any claims by the purchaser against JKF Industri. After completion of repairs or in the case of replacement, delivery will take place from JKF Industri as per point 6.

11. Product liability
JKF Industri is not liable for damage to property or effects that occurs while the item is in the possession of the purchaser. Neither is JKF Industri liable for damage to products manufactured by the purchaser or to products of which these form a part. JKF Industri is not liable for any operating loss, lost earnings or other indirect loss.
To the extent that product liability may be imposed on JKF Industri with regard to third parties, the purchaser is obliged to compensate JKF Industri to the same extent that JKF Industri's liability is limited as per the above.
These limitations to JKF Industri's liability do not apply if JKF Industri is guilty of gross negligence.
If a third party puts forward a claim against one of the parties for compensation with reference to this point, this party must immediately inform the other party about this. The purchaser is obliged to allow themselves to be sued at the same court that handles the claims for compensation against JKF Industri in consequence of damage that is alleged to have been caused by a defect in one of JKF Industri's deliveries.
JKF Industri's liability for product damage may at no time exceed the cover amount of JKF Industri's product liability insurance.

12. Applicable law and venue
Any disagreement between the parties is to be finally settled in arbitration by the "common court of judgement and arbitration at the Copenhagen Stock Exchange" or by the court at 9575 in Terndrup, irrespective of whether the case is a High Court case by nature.
All disagreements between the parties must be settled according to Danish law, including the Danish Sale of Goods Act. The International Sale of Goods Act (CISG) is to be neither wholly nor partially applied.

Table of contents

JKF duct systems, stainless steel

JKF's stainless steel duct system covers a wide range of ducts, bends, valves, transition pieces, jet caps etc.
The duct system can be used for all extraction purposes for transport of particles and air, and includes all the components needed for a complete extraction solution.
All dimensions stated are internal.

Materials

The duct system is manufactured in stainless steel EN 1.4301 (AISI 304) in thicknesses of 0.70 - 1.00 mm.

Tightness

Leaks in a duct system mean loss of capacity and undesirable noise. The duct system is manufactured with minor tolerances to ensure tight joints. Use of pull rings ensures that the duct line fulfils tightness class C, the best tightness class within industrial extraction.
Joint sealing compound or rubber flanges (EPDM) are recommended for flange assemblies to ensure tight joints. Correct assembly with sealing compound or rubber flanges will result in assemblies which fulfil the requirements for tightness class C in accordance with DS447.
The duct system is particularly well suited for the stricter requirements on cleaning the duct system, and for installation with the special requirements for explosion prevention in accordance with EU directive 94/9 EC of 23 March 1994 (ATEX).

Laser welded and longitudinally lock formed duct system, stainless steel.

Sliding dampers and throttle valves, stainless steel.

Quality assurance

JKF's quality assurance system is certified according to DS/ISO9001 (DS/EN29001).

Assembly methods, stainless steel

Assembly methods

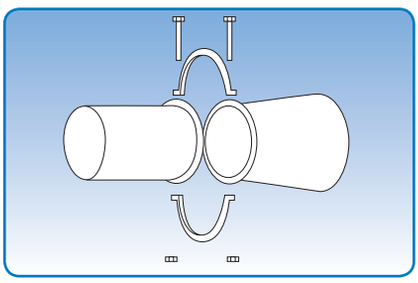
The high, uniform quality of the duct system along with efficient assembly and sealing ensures quick and easy assembly with the ability to perform subsequent modifications.

The components for the stainless steel duct system are made for a range of different assembly methods, which are also suitable for other systems.

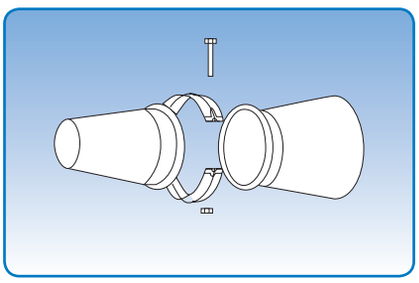
Pull rings or flat iron flanges are used for assembly, regardless of duct dimension, requirements for strength, tightness, noise and ease of assembly.

Assembly method must be stated when placing order. Assembly methods are stated under the illustrations.

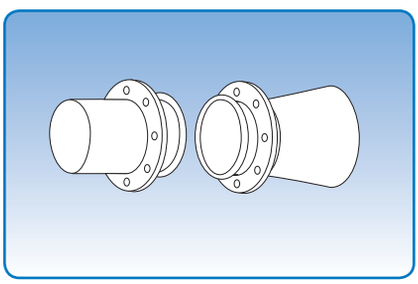
Item numbers for pull ring assembly products are stated in this catalogue [f.b].



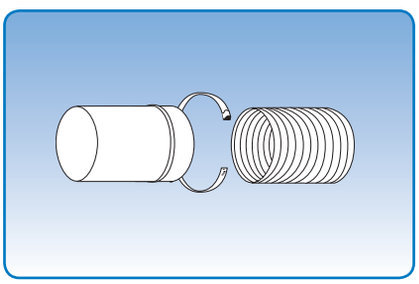
For pull rings [f.b]



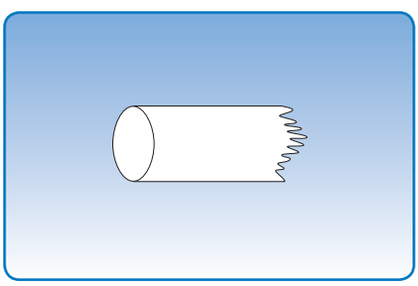
For wide pull rings [f.bb]



With loose flange fitted [f.b.m.fl]



For hoses [f.sl]



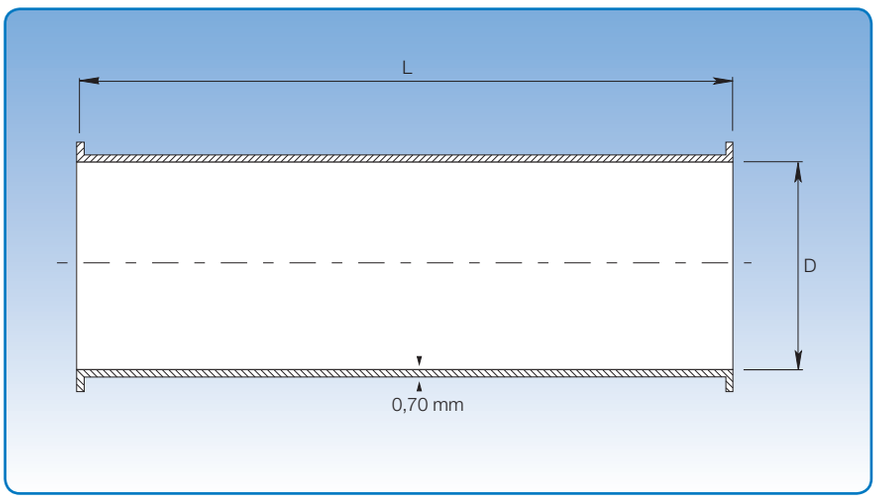
Smooth [gl]

Laser welded ducts, stainless steel

Diameter: ø80 - ø400 mm.

Laser welded ducts are made of 0.70 mm sheet metal.

Ducts are supplied in 0.5 m, 1.0 m and 2.0 m lengths.



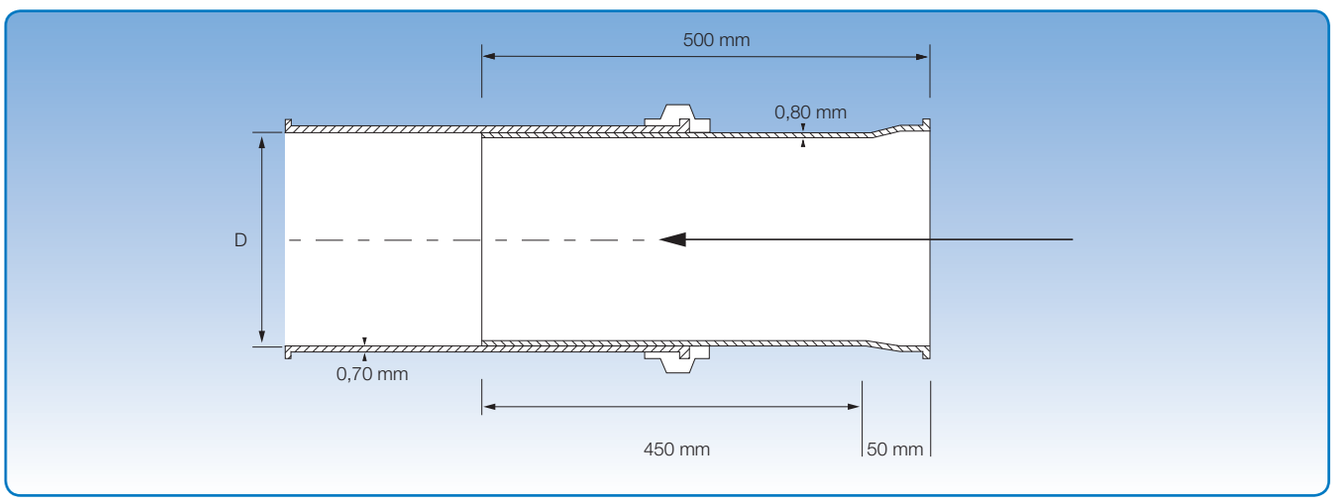
Dimensional specifications are given in the table below.

Dimensions						
D mm	Item no. L = 0.5 m	Weight at L = 0.5 m kg	Item no. L = 1.0 m	Weight at L = 1.0 m kg	Item no. L = 2.0 m	Weight at L = 2.0 m kg
80	10900011	0,70	10900021	1,41	10900031	2,81
100	10900111	0,88	10900121	1,76	10900131	3,52
120	10900211	1,06	10900221	2,11	10900231	4,22
140	10900411	1,23	10900421	2,46	10900431	4,93
150	10900511	1,32	10900521	2,64	10900531	5,28
175	10900711	1,58	10900721	3,17	10900731	6,33
200	10900811	1,76	10900821	3,52	10900831	7,04
224	10900911	1,98	10900921	3,96	10900931	7,92
250	10901011	2,20	10901021	4,40	10901031	8,80
300	10901211	2,64	10901221	5,28	10901231	10,56
350	10901411	3,08	10901421	6,16	10901431	12,32
400	10901511	3,52	10901521	7,04	10901531	14,07

The item numbers stated are for ducts assembled using pull rings [f.b].

Laser welded ducts are also available for other assembly methods. See p. 5 for assembly methods.

Telescopic ducts, stainless steel



Dimensional specifications are given in the table below.

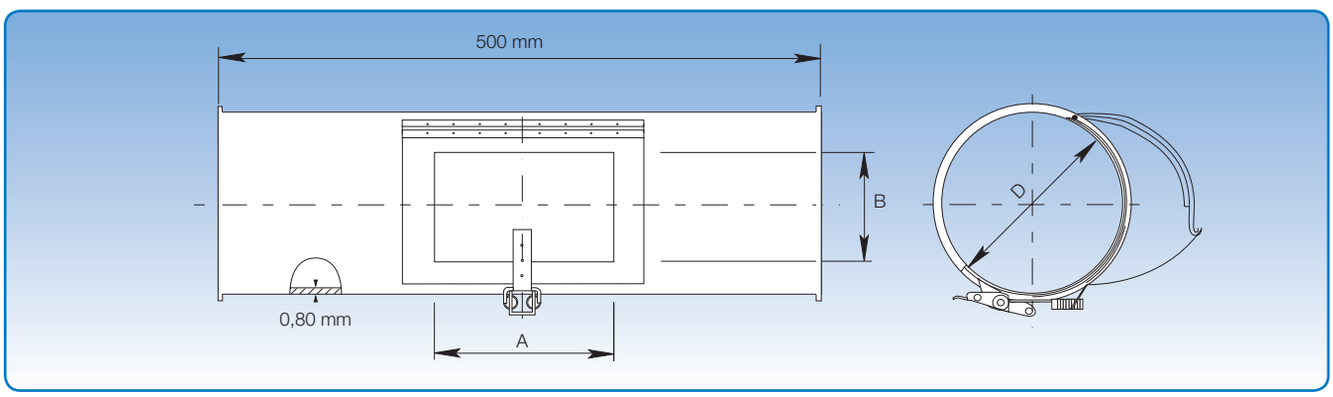
Diameter: ø100 - ø300 mm.

Telescopic ducts are made of 0.70 mm sheet metal, and supplied with rapid lock pull ring, including rubber insert. Rapid lock pull rings are electro-galvanised.

	Dimensions	
	D	Weight
Item no.	mm	kg
1099561	100	0,98
1099564	120	1,18
1099570	140	1,38
1099573	150	1,47
1099579	175	1,74
1099582	200	1,99
1099585	224	2,23
1099588	250	2,40
1099594	300	3,00

The item numbers stated are for telescopic ducts assembled using pull rings [f.b].
Telescopic ducts are also available for other assembly methods. See p. 5 for assembly methods.

Ducts with access door, stainless steel



Dimensional specifications are given in the table below.

Diameter: ø80 - ø400 mm.

Access doors are made of 0.80 mm and 1.00 mm sheet metal such that the inside is smooth and has a close fit.

Dimensions			
Item no.	D mm	B × A mm	Weight kg
4670370	80	80 x 150	0,80
4671370	100	100 x 150	1,00
4672370	120	100 x 150	1,20
4674370	140	100 x 150	1,40
4675370	150	100 x 150	1,50
4677370	175	100 x 150	1,75
4678370	200	100 x 150	2,00
4679370	224	100 x 150	2,25
4680370	250	100 x 150	2,50
4671370	300	100 x 150	2,85
4673370	350	150 x 200	3,25
4674370	400	150 x 200	4,50

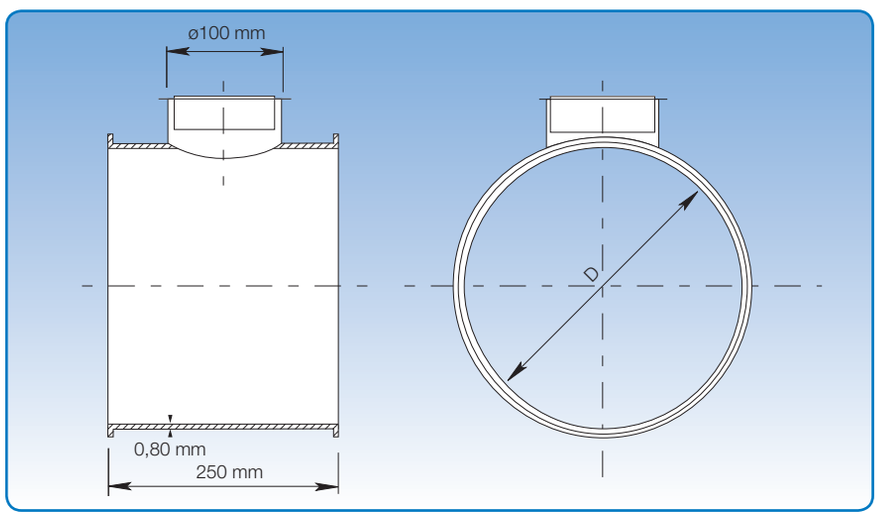
The item numbers stated are for ducts with access door assembled using pull rings [f.b].

Ducts with access door are also available for other assembly methods. See p. 5 for assembly methods.

Ducts with cleaning spigot, stainless steel

Diameter: ø100 - ø400 mm.

PVC lid is easy to put on and take off. All cleaning spigots have a ø100 mm opening.



Dimensional specifications are given in the table below.

Item no.	Dimensions D mm	Weight kg
4671115	100	0,90
4671116	120	1,14
4671118	140	1,33
4671119	150	1,43
4675116	175	1,66
4675117	200	1,90
4675118	224	2,14
4675119	250	2,38
4675120	300	2,52
4680116	350	3,09
4680117	400	4,28

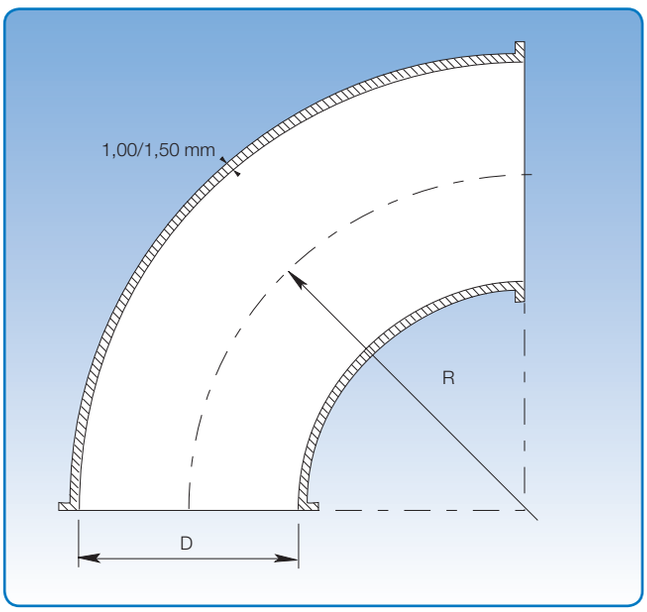
The item numbers stated are for ducts with cleaning spigot assembled using pull rings [f.b].

Ducts with cleaning spigot are also available for other assembly methods. See p. 5 for assembly methods.

Pressed bends, stainless steel

Diameter: ø80 - ø200 mm.

The bends are pressed.
Bends ø80 - ø150 mm are made of 1.00 mm sheet metal, and bends ø200 mm are made of 1.50 mm sheet metal.



Dimensional specifications are given in the table below.
Diameter = (D). R = 2 x D for all dimensions.

Dimensions

D mm	90° Item no.	90° kg	60° Item no.	60° kg	45° Item no.	45° kg	30° Item no.	30° kg
80	11990892	0,95	11990862	0,65	11990842	0,50	11990832	0,35
100	11991092	1,55	11991062	1,10	11991042	0,85	11991032	0,60
120	11991292	2,20	11991262	1,50	11991242	1,15	11991232	0,80
150	11991592	3,50	11991562	2,40	11991542	1,80	11991532	1,25
200	11992092	9,15	11992062	6,15	11992042	4,50	11992032	3,15

The item numbers stated are for bends assembled using pull rings [f.b].

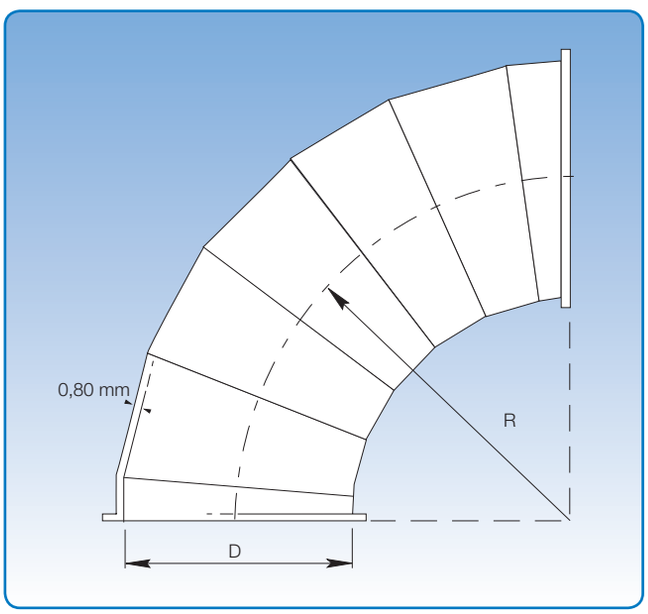
Bends are also available for other assembly methods. See p. 5 for assembly methods.

Segment bends, stainless steel

Diameter: ø140 - ø400 mm.

Segment bends are made of 0.80 mm sheet metal.

Segment bends are available in other radii to order.



Dimensional specifications are given in the table below.
R = 1.5 x D for all dimensions.

Dimensions

D mm	90° Item no.	kg	60° Item no.	kg	45° Item no.	kg	30° Item no.	kg	15° Item no.	kg
140	11991492	1,14	11991462	0,79	11991442	0,61	11991432	0,44	11991412	0,26
175	11991892	1,70	11991862	1,17	11991842	0,91	11991832	0,64	11991812	0,37
224	11992290	3,07	11992262	2,09	11992245	1,60	11992232	1,11	11992212	0,63
250	11992592	3,72	11992562	2,53	11992542	1,94	11992532	1,34	11992512	0,75
300	11993092	5,16	11993062	3,50	11993042	2,67	11993032	1,84	11993012	1,01
350	11993592	6,84	11993562	4,63	11993542	3,53	11993532	2,42	11993512	1,32
400	11994092	8,75	11994062	5,91	11994042	4,49	11994032	3,08	11994012	1,66

The item numbers stated are for segment bends assembled using pull rings [f.b].

Segement bends are also available for other assembly methods. See p. 5 for assembly methods.

30° straight branch pieces, stainless steel

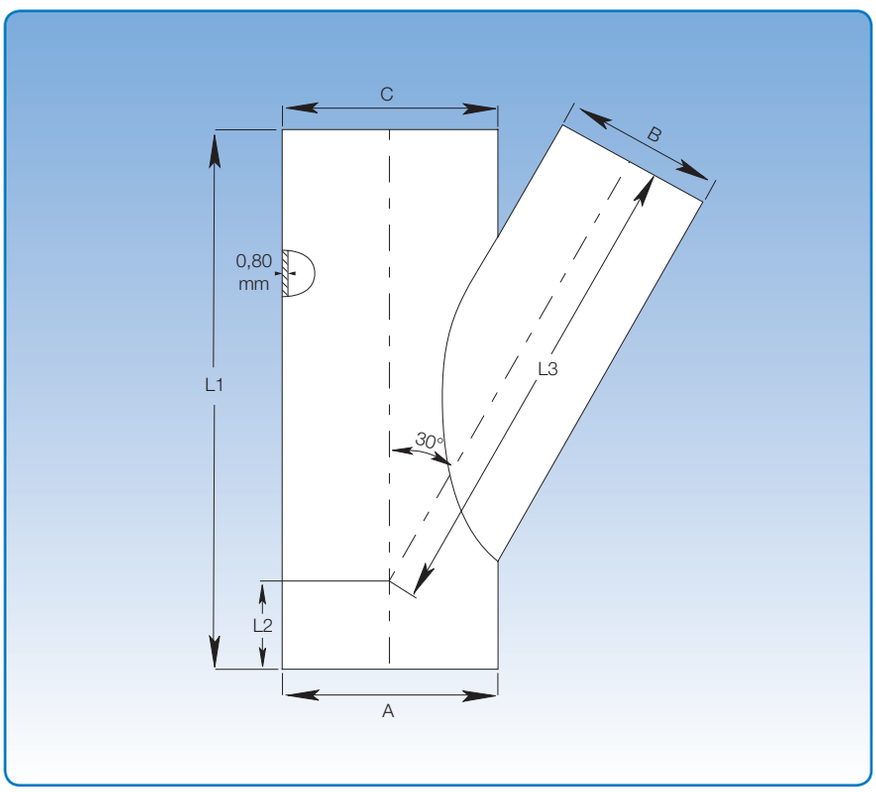
Diameter: ø80 - ø400 mm.

Branch pieces are made of 0.80 mm sheet metal.

When assembled with loose flanges, [f.b.m.fl], L1 is extended by 2 x 50 mm.

State A-, B- and C dimensions when ordering. Options are limited by A = C ≥ B.
A = C must be max. 400 mm.

The branch determines the length of L1. Branch pieces can only be fitted to straight ducts with the branch placed centrally.



Calculation of L2 og L3:

L1 = see table

$$L2 = \frac{1}{2} \times \left(L1 - \frac{A}{tg\alpha} \right)$$

$$L3 = \frac{L1-L2}{\cos\alpha} - \left(\frac{B}{2} \times tg\alpha \right)$$

Example:

A = 350, B = 300, C = 350

L1 = 750 mm

$$L2 = 0{,}5 \times \left(750 - \frac{350}{tg\ 29{,}6°} \right) = 375 - 308{,}06$$

L2 = 66,94 ~ 67 mm

$$L3 = \frac{750 - 67}{\cos 29{,}6} - \left(\frac{300}{2} \times tg\ 29{,}6 \right) = 785{,}51 - 85{,}21$$

L3 = 700,30 ~ 700 mm

Dimensions

A = C mm	B mm	L1 mm	L2 mm	L3 mm	∝
	80	350			28,0
	100	350			28,8
	120	350			28,8
	140	450			29,1
	150	450			29,2
	175	550			29,3
Choose	200	550	Calculated	Calculated	29,3
	224	600			29,4
	250	750			29,5
	300	750			29,6
	350	950			29,6
	400	1050			29,7

45° straight branch pieces, stainless steel

Diameter: ø80 - ø400 mm.

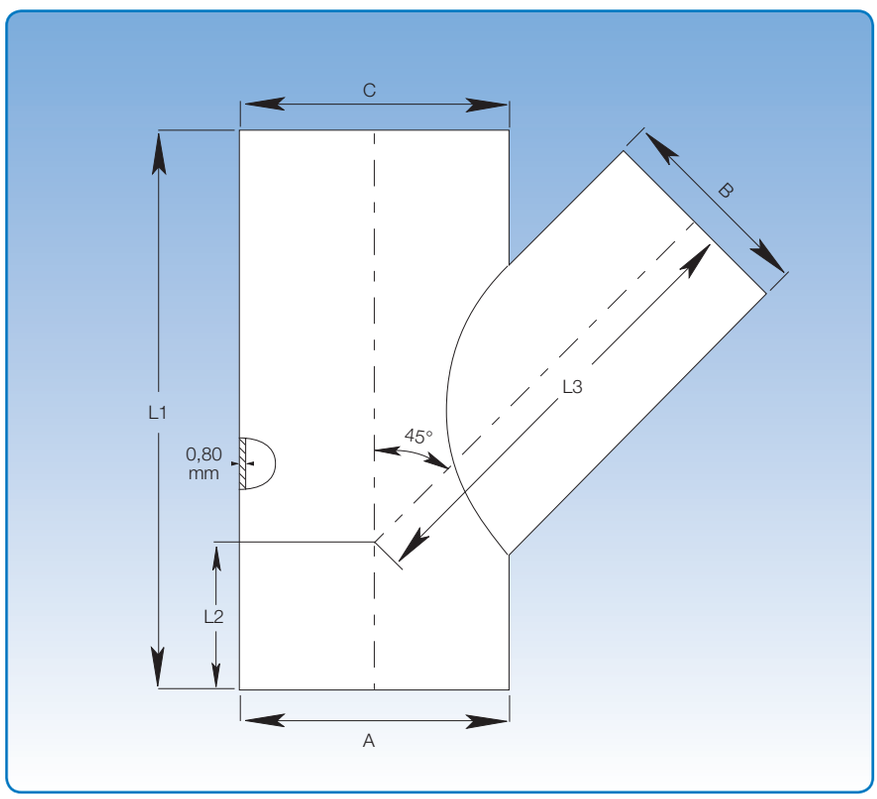
Branch pieces are made of 0.80 mm sheet metal.

When supplied with loose flanges, [f.b.m.fl], L1 is extended by 2 x 50 mm.

State A-, B- and C dimensions when ordering. Options are limited by A = C ≥ B.
A = C must be max. 400 mm.

The branch determines the length of L1.

Branch pieces can only be fitted to straight ducts with the branch placed centrally.



Calculation of L2 og L3:

L1 = see table

$$L2 = \frac{1}{2} \times \left(L1 - \frac{A}{tg\alpha} \right)$$

$$L3 = \frac{L1-L2}{\cos\alpha} - \left(\frac{B}{2} \times tg\alpha \right)$$

Example:

A = 300, B = 250, C = 300

L1 = 500 mm

$$L2 = 0{,}5 \times \left(500 - \frac{300}{tg\ 44{,}5°} \right) = 250 - 152{,}64$$

L2 = 97,36 ~ 97 mm

$$L3 = \frac{500 - 97}{\cos 44{,}5°} - \left(\frac{250}{2} \times tg\ 44{,}5° \right) = 565{,}02 - 122{,}84$$

L3 = 442,18 ~ 442 mm

Dimensions

A = C mm	B mm	L1 mm	L2 mm	L3 mm	∝
	80	300			43,8
	100	300			43,8
	120	350			44,0
	140	350			44,1
	150	400			44,2
	175	400			44,3
	200	450			44,4
Choose	224	500	Calculated	Calculated	44,5
	250	500			44,5
	300	600			44,6
	350	700			44,7
	400	800			44,7

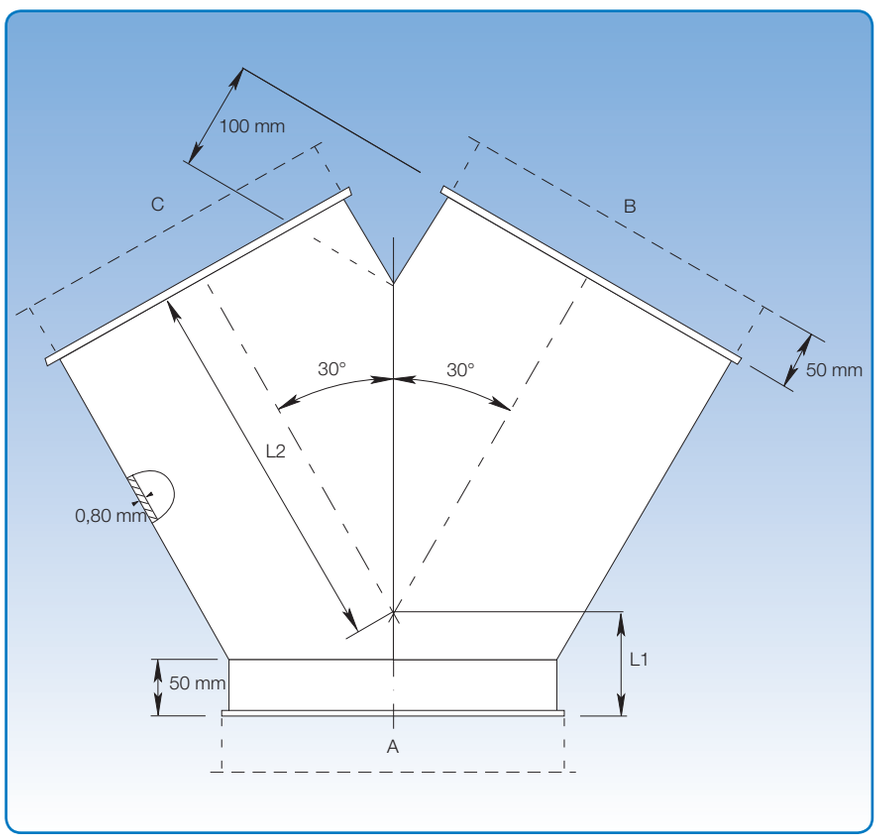
30° trouser pieces, stainless steel

Diameter: ø80 - ø400 mm.

Trouser pieces are made of 0.80 mm sheet metal.

State A-, B- and C dimensions when ordering.

The following apply to trouser pieces:
A = B = C.



Calculation of L1 and L2 for 2 · 30°:

L1 = (A · 0,134) + 50

L2 = (B · 0,866) + 100

Example:

A = B = C = 200
L1 = (200 · 0,134) + 50 = 76,8
L2 = (200 · 0,866) + 100 = 273,2

Dimensions

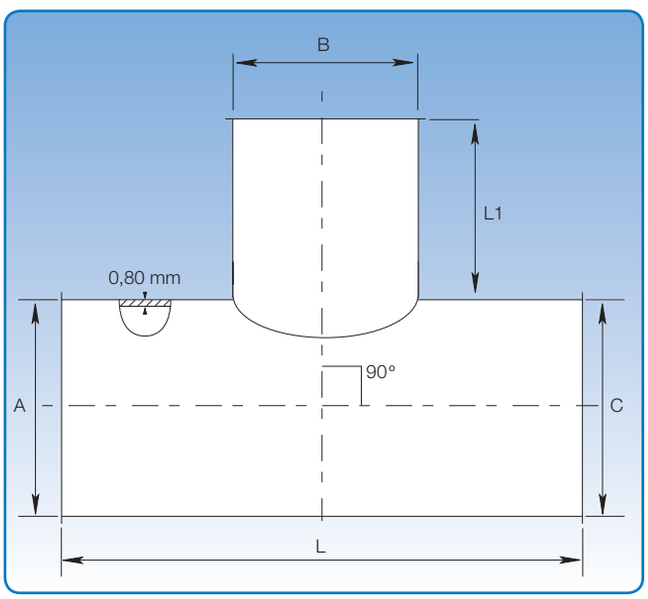
Item no.	B mm	Weight kg
13900000	80	0,54
13900100	100	0,89
13900200	120	1,12
13900400	140	1,38
13900500	150	1,52
13900700	175	1,95
13900800	200	2,34
13900900	224	3,05
13901000	250	3,55
13901200	300	4,62
13901300	350	4,97
13901500	400	7,10

90° T-pieces, stainless steel

Diameter: ø80 - ø400 mm.

T-pieces in stainless steel are made of 0.80 mm sheet metal.
For dimensions apply: A = C ≥ B.

State A-, B- and C dimensions when ordering.



Dimensional specifications are given in the table below.

Item no.	Dimensions B mm	L mm	L1 mm	Weight kg
4601200	80	230	75	0,67
4601205	100	250	75	0,89
4601210	120	270	75	1,12
4601220	140	290	75	1,38
4601225	150	300	75	1,52
4601235	175	330	75	1,95
4601240	200	350	75	2,34
4601245	224	425	100	3,05
4601250	250	450	100	3,55
4601260	300	500	100	4,62
4601270	350	550	100	5,39
4601275	400	600	100	7,15

The item numbers stated are for T-pieces assembled using pull rings [f.b].

T-pieces are also available for other assembly methods. See p. 5 for assembly methods.

Tapers, stainless steel

Diameter: ø80 - ø400 mm.

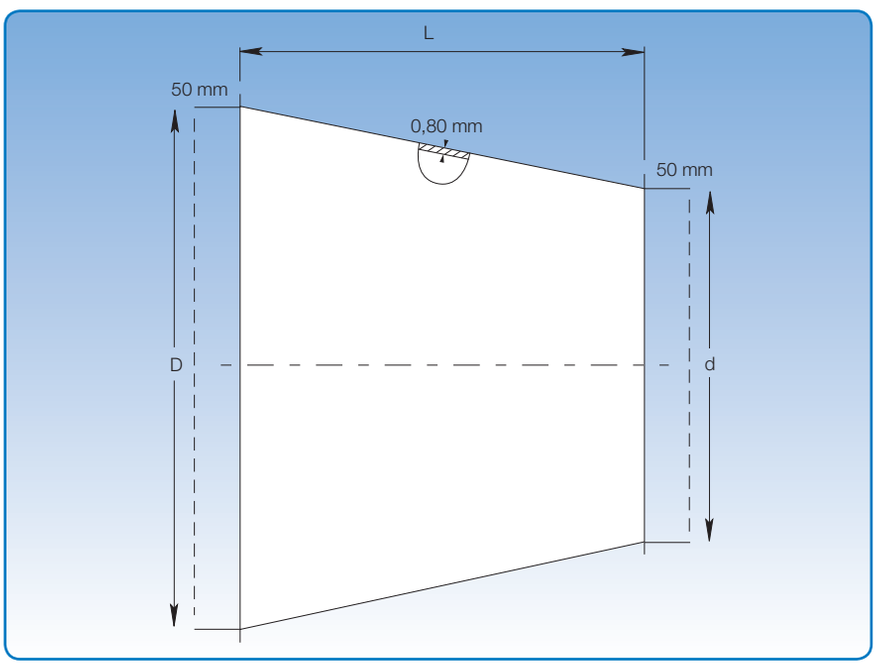
Tapers are spot welded and as standard made of 0.80 mm sheet metal.

When assembling with wide pull rings [f.bb] and loose flanges [f.b.m.fl], length (L) is increased by 2 × 50 mm.

State dimensions for D and d plus assembly method when ordering (p. 5). Length L is stated in the table below.

The item numbers stated are for tapers assembled using pull rings [f.b].
Tapers are also available for other assembly methods. See p. 5 for assembly methods.

*) The tapers are pressed.



Dimensions				
Item no.	D mm	d mm	L mm	Weight kg
1899100*	100	80	95	0,24
1899120	120	80	100	0,35
1899121*	120	100	95	0,23
1899140	140	100	125	0,45
1899142	140	120	125	0,35
1899150	150	80	125	0,55
1899151	150	100	125	0,42
1899152*	150	120	110	0,50
1899154	150	140	125	0,35
1899172	175	120	150	0,70
1899174	175	140	150	0,55
1899175	175	150	125	0,60
1899201	200	100	200	0,75
1899202	200	120	200	0,75
1899205*	200	150	145	0,74
1899208	200	175	125	0,45
1899241	224	150	150	0,90
1899242	224	175	125	0,75
1899244	224	200	125	0,55
1899250	250	150	200	1,20
1899251	250	175	200	1,00
1899252*	250	200	145	0,95
1899254	250	224	125	0,60
1899302	300	200	200	1,45
1899304	300	224	200	1,98
1899305*	300	250	145	1,12
1899352	350	250	200	1,15
1899353	350	300	150	1,15
1899400	400	300	200	1,65
1899403	400	350	150	1,35

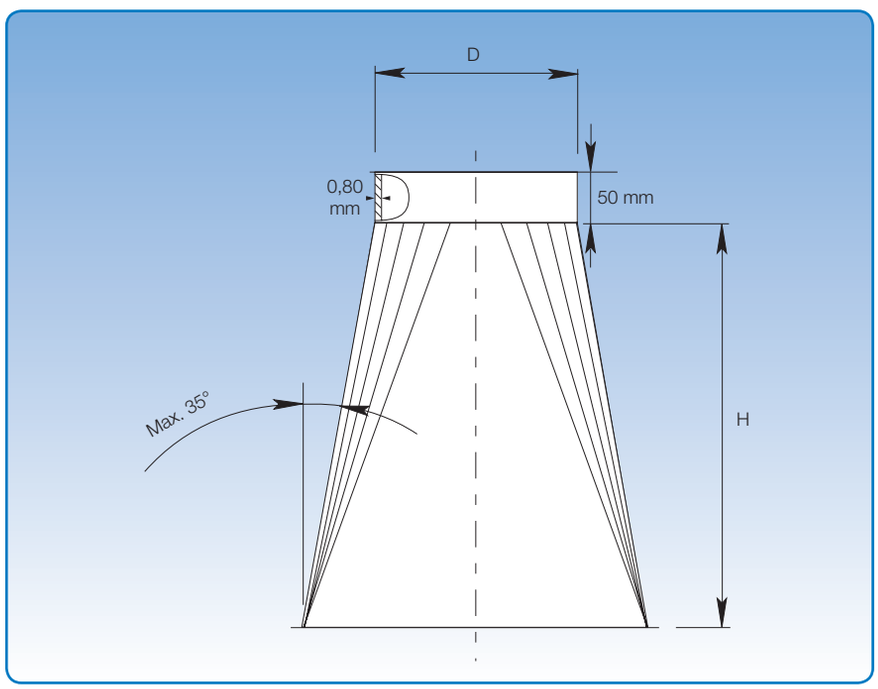
Transition pieces, stainless steel

Diameter: ø80 - ø400 mm.

Transition pieces are spot welded and made of 0.80 mm sheet metal.

The transition pieces can be made to order in other dimensions, and they are also available in asymmetric format.

State dimensions for BU × LU and D plus assembly method when ordering (p. 5).



Calculation of H:

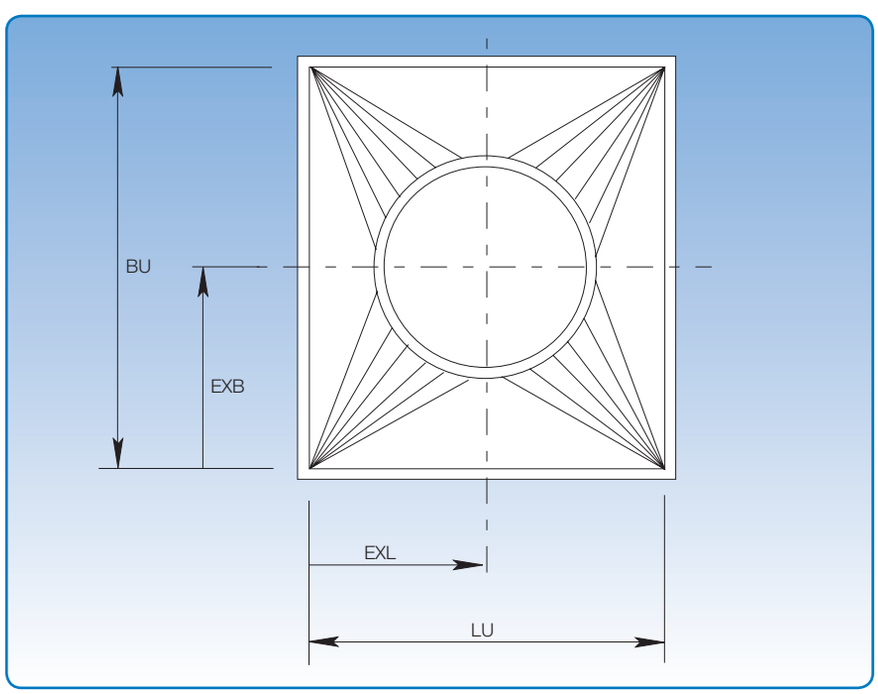
H = 240 + 0,5 × (max. value of LU – D)
or (BU – D)

Example:

D = 350, LU = 400, BU = 600, EXL = 200, EXB = 300

H = 240 + (0,5 × 250) = 240 + 125

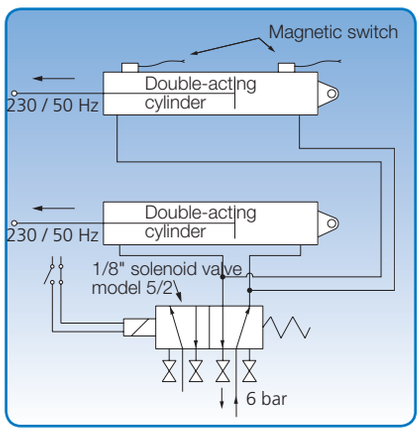
H = 365 mm



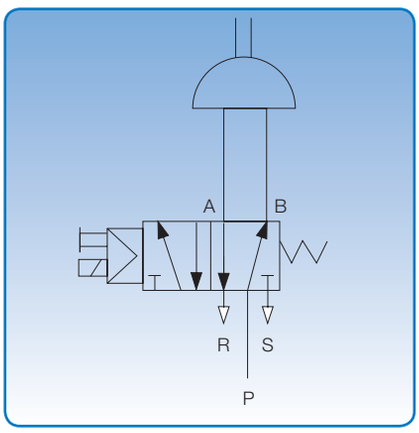
Automation for sliding dampers and throttle valves

The circuit diagrams shown apply to standard systems for sliding dampers and throttle valves.

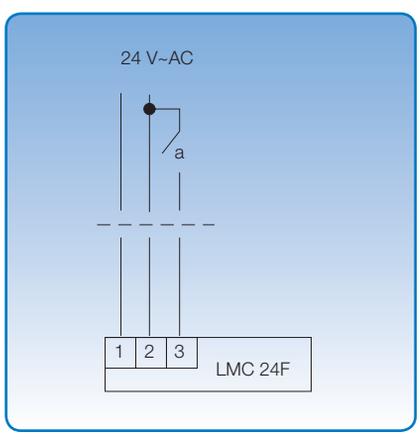
These systems are valid for pneumatic connection of max. 6 bar and electrical connection of 230 V AC or 24 V DC.
Systems with other voltage ratings can be supplied.



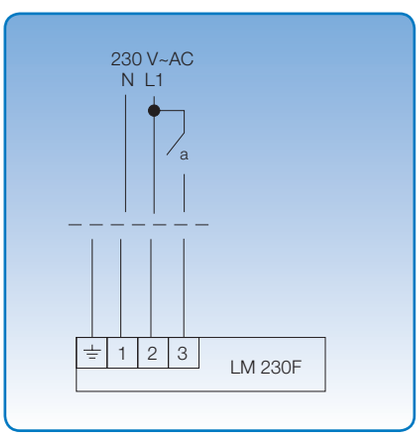
Circuit diagram for pneumatic cylinders for sliding dampers.



Circuit diagram for pneumatic actuator for throttle valves and membrane valves.

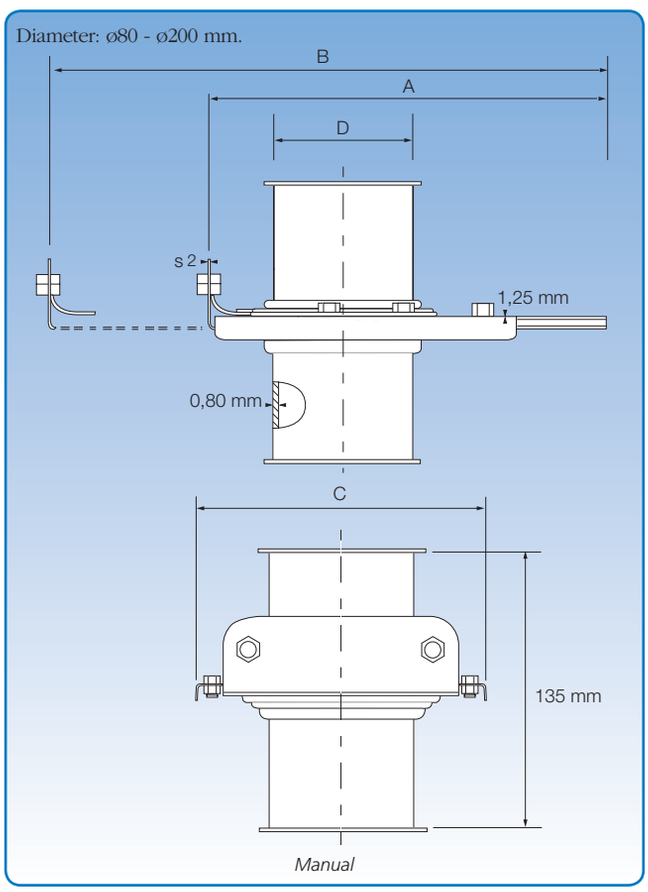


Circuit diagram for 24 V DC electric motor for throttle valves.

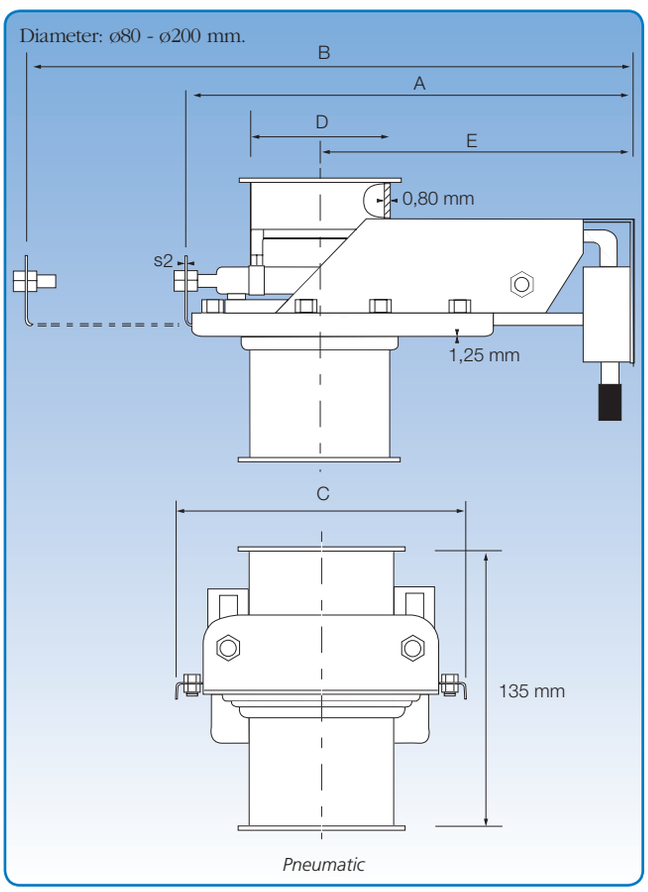


Circuit diagram for 230 V AC electric motor for throttle valves.

Tight sliding dampers, stainless steel, manual and pneumatic



Dimensional specifications are given in the table below.



Dimensional specifications are given in the table below.

General

Diameter: ø80 - ø200 mm.

Sliding dampers are made of form-pressed half-parts in 1.25 mm sheet metal.

The damper plate slides in polyether and PEHD gaskets to ensure optimum tightness.

With pneumatic actuator

The damper is fitted with two pneumatic cylinders running in parallel.

Solenoid valve: monostable 5/2 valve with 1 x 230 V AC - 50/60 Hz electric coil or 24 V DC. Pneumatic pressure: 4-6 bar.

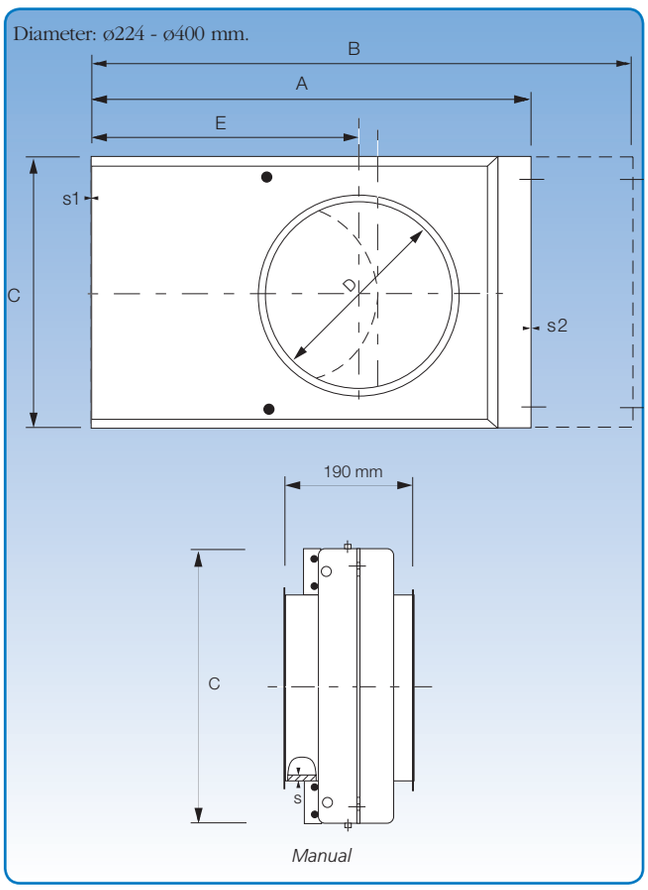
Dimensions

Item no. (Man.)	Item no. (Pneu.)	D mm	s2 mm	A (Man.) mm	A (Pneu.) mm	B (Man.) mm	B (Pneu.) mm	C mm	E mm	Weight (Man.) kg	Weight (Pneu.) kg
1400112	1400122	80	1,5	225	260	320	355	160	190	1,2	2,3
1400132	1400142	100	1,5	265	305	380	415	190	225	1,5	3,8
1400152	1400162	120	2,0	325	360	460	500	215	260	2,1	3,6
1400192	1400202	140	2,0	375	415	540	580	240	300	2,9	4,4
1400212	1400222	150	2,0	375	415	540	580	240	300	2,9	4,4
1400252	1400262	175	2,0	455	495	655	695	290	355	4,1	6,0
1400272	1400282	200	2,0	485	525	705	745	300	385	4,4	6,3

The item numbers stated are for sliding dampers assembled using pull rings [f.b].

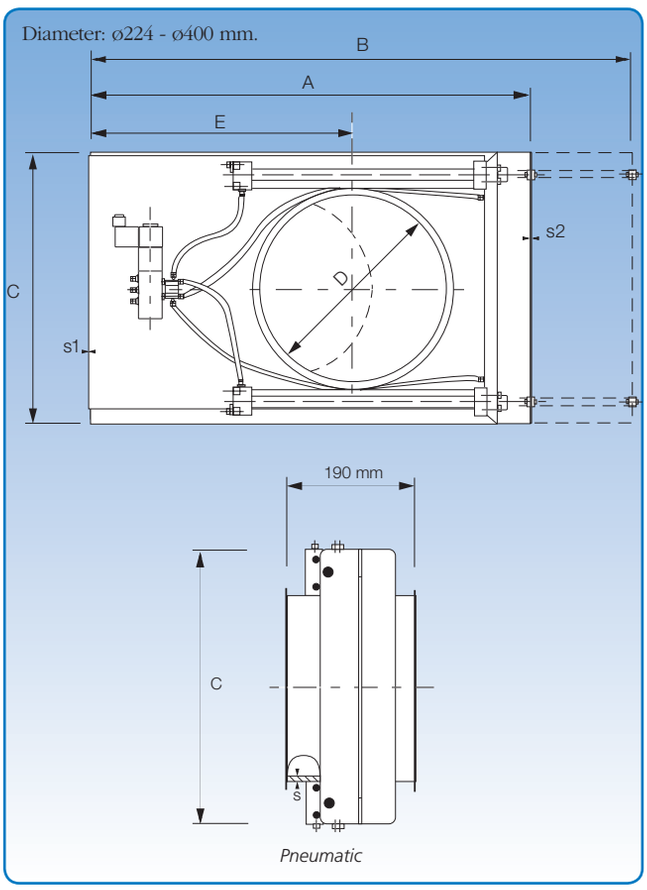
Sliding dampers are also available for other assembly methods. See p. 5 for assembly methods.

Tight sliding dampers, stainless steel, manual and pneumatic



Manual

Dimensional specifications are given in the table below.



Pneumatic

Dimensional specifications are given in the table below.

General

Diameter: ø224 - ø400 mm.

Sliding dampers are made of form-pressed half-parts in 1.50 and 2.00 mm sheet metal.

The damper plate slides in polyether and PEHD gaskets to ensure optimum tightness.

With pneumatic actuator

The damper is fitted with two pneumatic cylinders running in parallel. Solenoid valve: monostable 5/2 valve with 1 x 230 V AC - 50/60 Hz electric coil or 24 V DC. Pneumatic pressure: 4-6 bar.

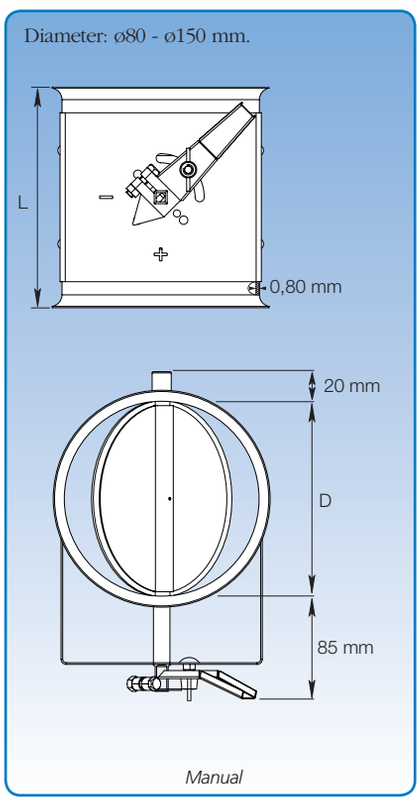
Dimensions

Item no. (Man.)	Item no. (Pneu.)	D mm	s mm	s1 mm	s2 mm	A mm	B max. mm	C mm	E mm	Weight (Man.) kg	Weight (Pneu.) kg
1400292	1400302	224	1,50	1,50	2,50	580	830	360	390	9,9	13,4
1400312	1400322	250	1,50	1,50	2,50	660	960	385	455	11,6	15,0
1400352	1400362	300	2,00	2,00	3,00	725	1045	435	495	16,4	20,7
1400372	1400382	350	2,00	2,00	3,00	855	1255	485	600	21,0	26,8
1400392	1400402	400	2,00	2,50	3,00	1005	1505	545	725	32,3	36,9

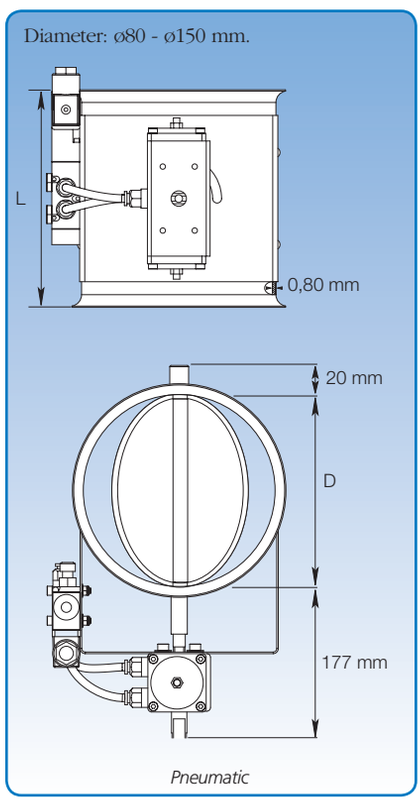
The item numbers stated are for sliding dampers assembled using pull rings [f.b].

Sliding dampers are also available for other assembly methods. See p. 5 for assembly methods.

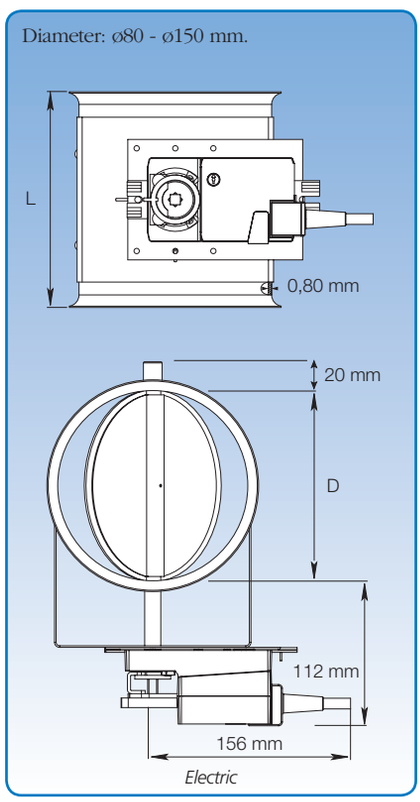
Throttle valves, stainless steel manual, pneumatic and electric



Dimensional specifications are given in the table below.



Dimensional specifications are given in the table below.



Dimensional specifications are given in the table below.

General

Throttle valves are made of 0.80 mm sheet metal and damper in double sheet.
Throttle handle indicates damper position, and can be variably set between open and closed.
Available with natural rubber gasket.
Maximum closure of throttle valves is 96%.

With pneumatic actuator

The damper is turned by a pneumatic actuator controlled by an electrically-operated valve.
Solenoid valve: monostable 5/2 valve with 1 x 230 V AC - 50/60 Hz electric coil or 24 V DC.
Pneumatic pressure: 4-6 bar. Setting indicators showing damper position are available as an optional extra.

With electric actuator

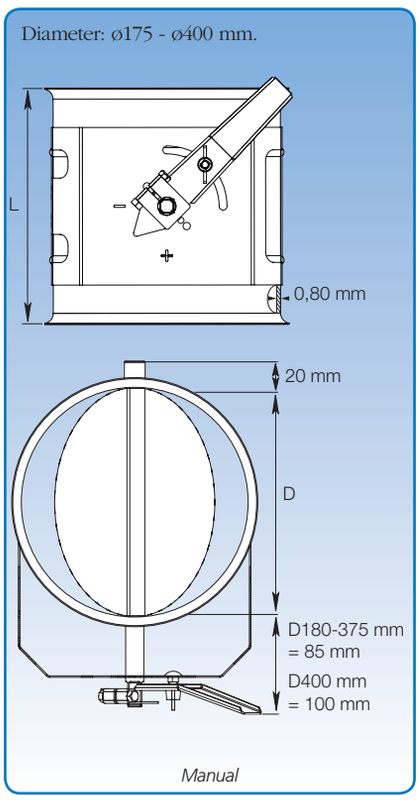
Damper is operated by an electric motor activated by a changeover switch.
Setting indicators showing damper position are available as an optional extra.
Electrical connection: 230 V AC - 50 Hz or 24 V DC.

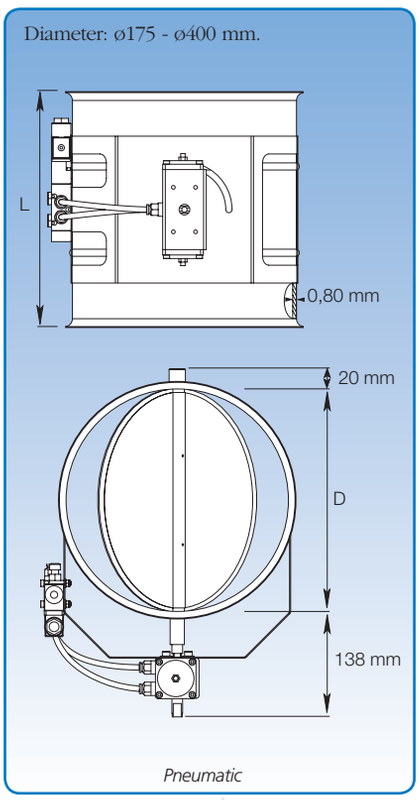
Dimensions

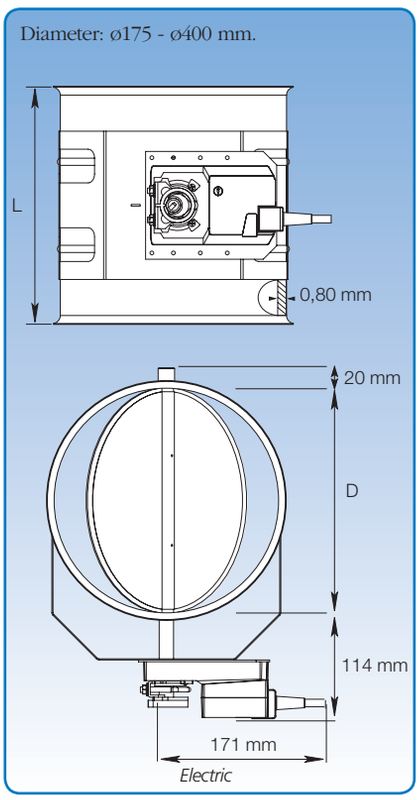
Item no. (Man.)	Item no. (Pneu.)	Item no. (Elec.)	D mm	L mm	Weight (Man.) kg	Weight (Pneu.) kg	Weight (Elec.) kg
1501112	1501132	1501122	80	125	0,65	3,34	1,60
1501142	1501162	1501152	100	125	0,75	3,52	1,70
1501172	1501192	1501182	120	135	0,90	3,71	1,85
1501232	1501252	1501242	140	170	1,15	4,03	2,10
1501262	1501282	1501272	150	170	1,25	4,15	2,20

The item numbers stated are for throttle valves assembled using pull rings [f.b].
Throttle valves are also available for other assembly methods. See p. 5 for assembly methods.

Throttle valves, stainless steel, manual, pneumatic and electric







General

Throttle valves are made of 0.80 mm sheet metal and damper in double sheet.
Throttle handle indicates damper position, and can be variably set between open and closed.
Available with natural rubber gasket.
Maximum closure of throttle valves is 96%.

With pneumatic actuator

The damper is turned by a pneumatic actuator controlled by an electrically-operated valve.
Solenoid valve: monostable 5/2 valve with 1 x 230 V AC - 50/60 Hz electric coil or 24 V DC.
Pneumatic pressure: 4-6 bar. Setting indicators showing damper position are available as an optional extra.

With electric actuator

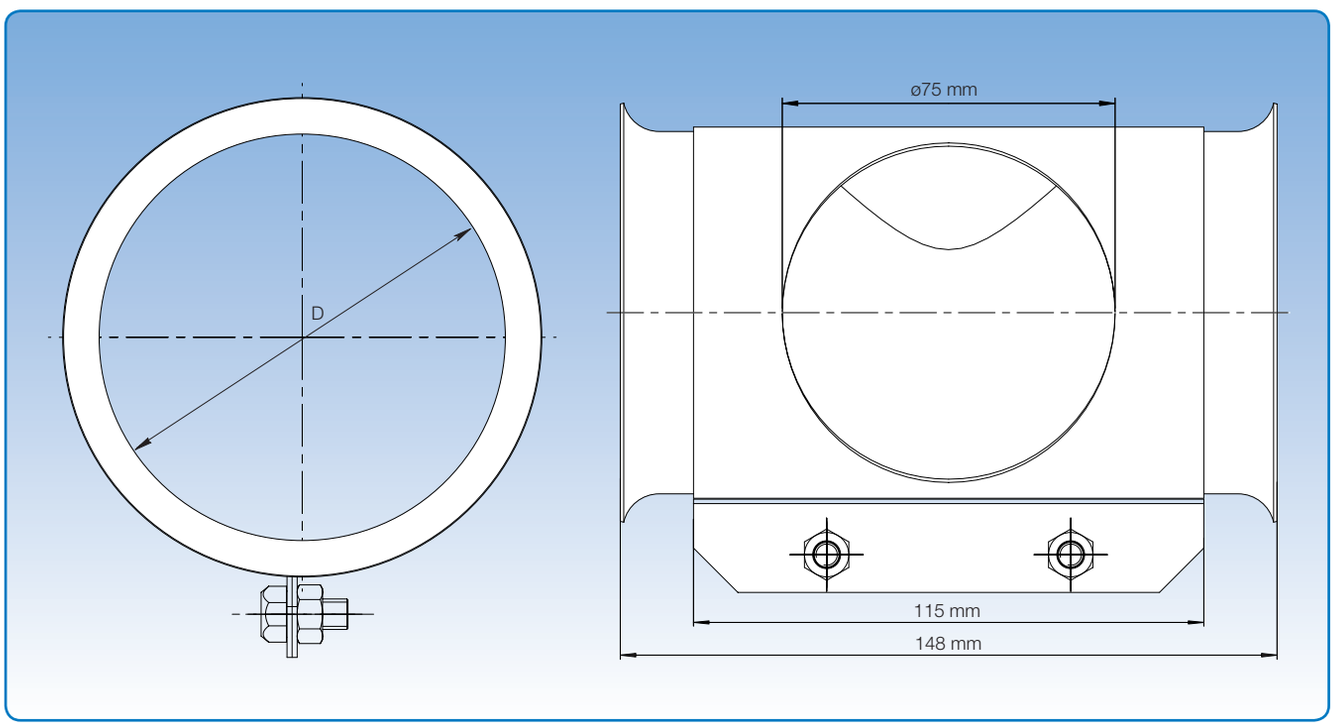
Damper is operated by an electric motor activated by a changeover switch.
Setting indicators showing damper position are available as an optional extra.
Electrical connection: 230 V AC - 50 Hz or 24 V DC.

Dimensions

Item no. (Man.)	Item no. (Pneu.)	Item no. (Elec.)	D mm	L mm	Weight (Man.) kg	Weight (Pneu.) kg	Weight (Elec.) kg
1501322	1501342	1501332	175	210	1,90	4,91	3,55
1501352	1501372	1501362	200	210	2,20	5,20	3,85
1501382	1501402	1501392	224	240	2,55	5,75	4,20
1501412	1501432	1501422	250	265	3,05	6,29	5,05
1501472	1501492	1501482	300	315	4,30	8,00	6,30
1501502	1501522	1501512	350	330	5,60	12,16	6,50
1501532	1501552	1501542	400	365	8,10	13,00	7,43

The item numbers stated are for throttle valves assembled using pull rings [f.b].
Throttle valves are also available for other assembly methods. See p. 5 for assembly methods.

False air valves, stainless steel



Diameter: ø80 - ø200 mm.

False air valves are made of 0.80 mm sheet metal.

"False" air is regulated by turning the external button.

Item no.	Dimensions D mm	Weight kg
4670903	80	0,75
4671903	100	0,95
4674903	140	1,25
4675903	150	1,40
4677903	175	1,90
4678903	200	2,15

The item numbers stated are for false air valves assembled using pull rings [f.b].

False air valves are also available for other assembly methods. See p. 5 for assembly methods.

Membrane valves, stainless steel

Membrane valves consist of a metal cap made of 0.80 mm sheet metal with a duct-shaped rubber membrane inside with full opening area. The membrane is reinforced with Kevlar fibre.
Two guide rails ensure the membrane closes in two tongues, meeting in the middle to ensure the valve closes tightly.
The membrane is made of natural rubber, which is extremely resistant to abrasive materials and oils.

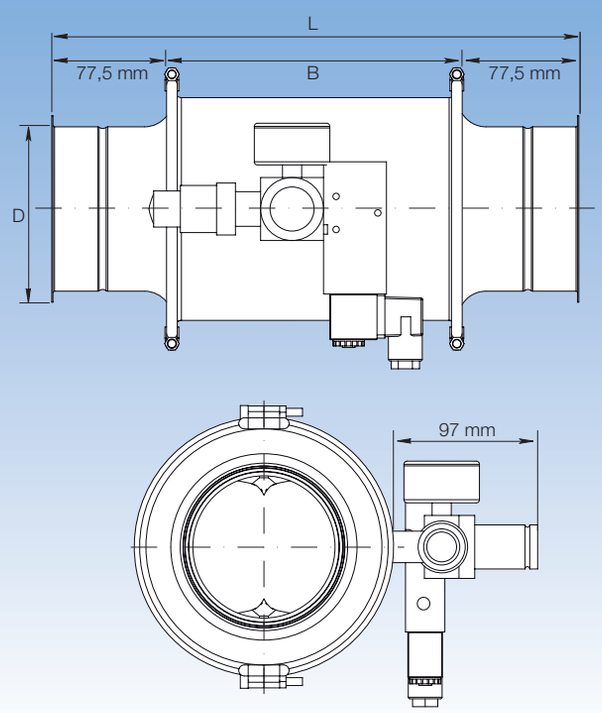
The valve opens and closes by blowing or extracting compressed air into the rubber membrane.

Membrane valves can be used in systems with underpressure down to approx. 3.000 Pa, and air velocities of up to 30 m/sec.

Membrane valves can be supplied with on/off control using a single magnetic valve or regulation of flow and pressure using a double magnetic valve with two coils.

Electrical connection: 230 V - 50 Hz or 24 V DC.
The rubber membrane is also available in EPDM rubber.

Diameter: ø100 - ø400 mm.

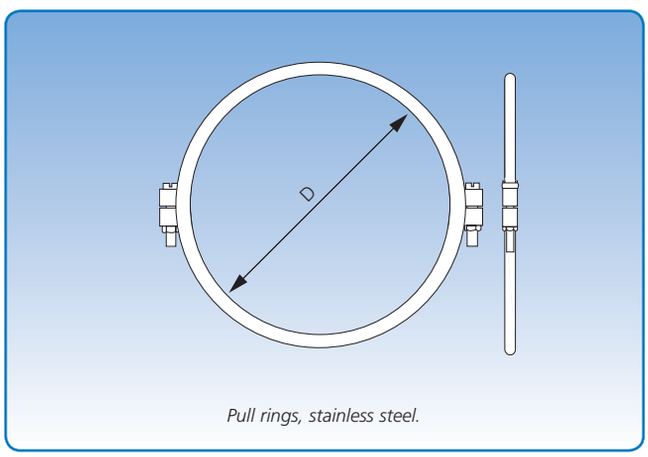


Dimensions

Item no.	D mm	B mm	L mm	Weight kg
1500101	100	180	326	2,90
1500126	120	210	380	4,20
1500151	150	250	398	5,50
1500201	200	280	426	8,20
1500251	250	330	480	10,80
1500301	300	392	538	13,90
1500351	350	495	645	17,00
1500401	400	495	661	19,50

The item numbers stated are for membrane valves assembled using pull rings [f.b].

Pull rings, stainless steel



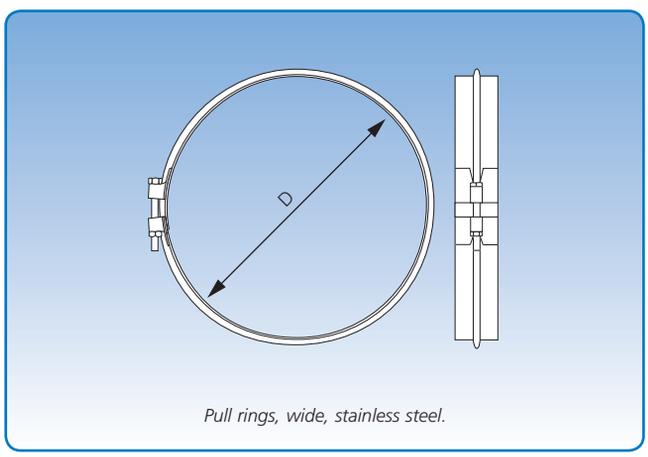
Pull rings, stainless steel.

Diameter: ø80 - ø300 mm.

Stainless steel pull rings [f.b] are in two pieces.

EPDM rubber rings are available as optional extras for sealing of diameter assemblies ø80 - ø300 mm.

Supplied in plastic bags of 10 pcs.
Each bag also contains the nuts and bolts required for the assembly.



Pull rings, wide, stainless steel.

Diameter: ø200 - ø400 mm.

Wide stainless steel pull rings [f.bb] are supplied individually with nuts and bolts.

Pull rings, stainless steel

Item no.	D mm	Weight/10 pcs. kg
1699908	80	0,55
1699910	100	0,60
1699912	120	0,65
1699914	140	0,75
1699915	150	0,80
1699918	175	0,85
1699920	200	0,90
1699922	224	0,95
1699925	250	1,00
1699930	300	1,25

Pull rings, wide, stainless steel

Item no.	D mm	Weight/pcs. kg
1699956	200	0,26
1699958	224	0,30
1699960	250	0,38
1699964	300	0,45
1699970	350	0,50
1699974	400	0,55

Rubber gasket rings

Diameter: ø80 - ø300 mm.

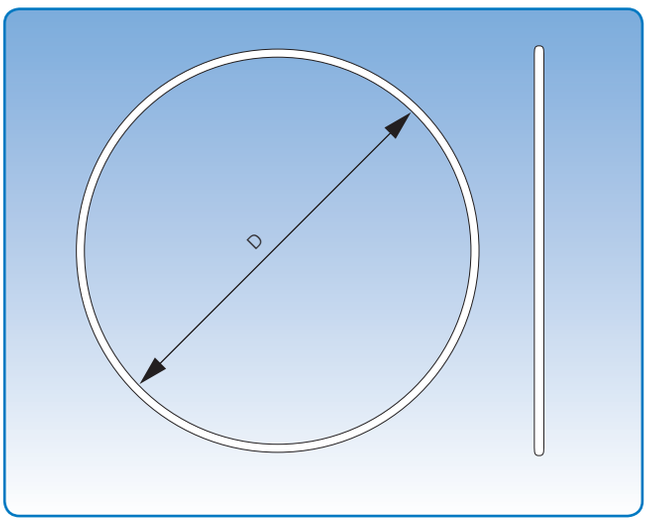
Standard rubber gasket rings are made of EPDM 80 rubber and used for f.b. assemblies to improve degree of tightness.

One rubber gasket ring is fitted for each assembly.
Rubber gasket rings are fitted on either f.b. edge before assembly of ducting.

Rubber gasket rings are U-shaped in cross section.
Hardness: 80 shore.
Operating temperature range: -40°C to +100°C.

Same dimensions of rubber gasket rings are available in NITRIL rubber.
Hardness: 80 shore.
Operating temperature range: -15°C to +80°C.
NITRIL rubber is resistant to oil and petrol, and to some degree to acids and bases.

Supplied in plastic bags of 10 pcs.



Dimensional specifications are given in the table below.

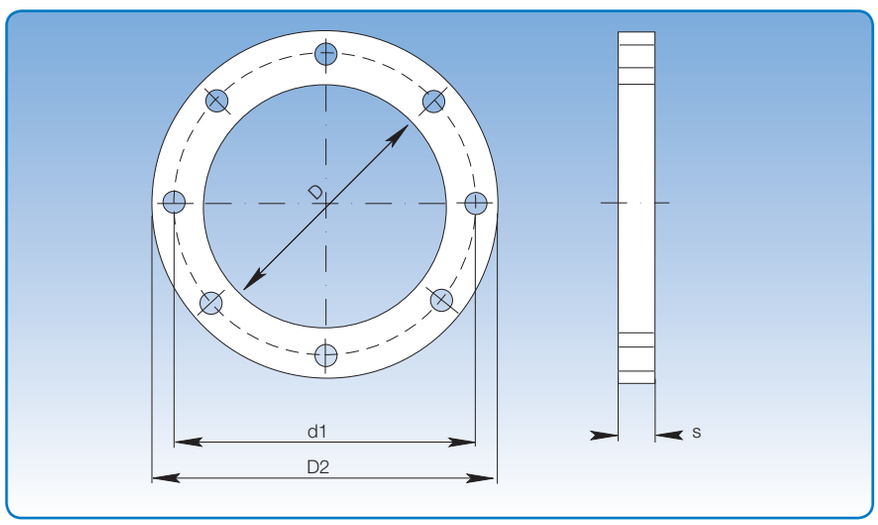
Dimensions		
Item no.	D mm	Weight/10 pcs. kg
820170080	80	0,02
820170100	100	0,03
820170120	120	0,04
820170140	140	0,05
820170150	150	0,06
820170180	175	0,08
820170200	200	0,09
820170225	224	0,10
820170250	250	0,11
820170300	300	0,13

Flanges, stainless steel

Diameter: ø80 - ø400 mm.

Flanges are made in accordance with JKF's standard, and are a standard component in the product range.

Flanges are made in EN 1.4301 (AISI 304) stainless steel.



Dimensional specifications are given in the table below.

Dimensions									
Item no.	Diameter nominal	D mm	d1 mm	D2 mm	s mm	Flange width mm	Hole size mm	Number of holes	Weight kg
1699508	80	83	115	133	3,00	25	9	8	0,19
1699510	100	103	135	153	3,00	25	9	8	0,22
1699512	120	123	155	173	3,00	25	9	8	0,26
1699514	140	143	175	193	3,00	25	9	8	0,30
1699515	150	155	185	205	3,00	25	9	8	0,42
1699518	175	180	210	230	4,00	25	9	8	0,50
1699520	200	205	235	255	4,00	25	9	12	0,54
1699522	224	230	260	280	4,00	26	9	12	0,60
1699525	250	255	285	305	4,00	25	9	12	0,66
1699530	300	305	336	355	4,00	25	9	12	0,78
1699535	350	355	389	415	5,00	26	11	12	1,37
1699540	400	405	439	465	5,00	30	11	16	1,54

Rubber flanges

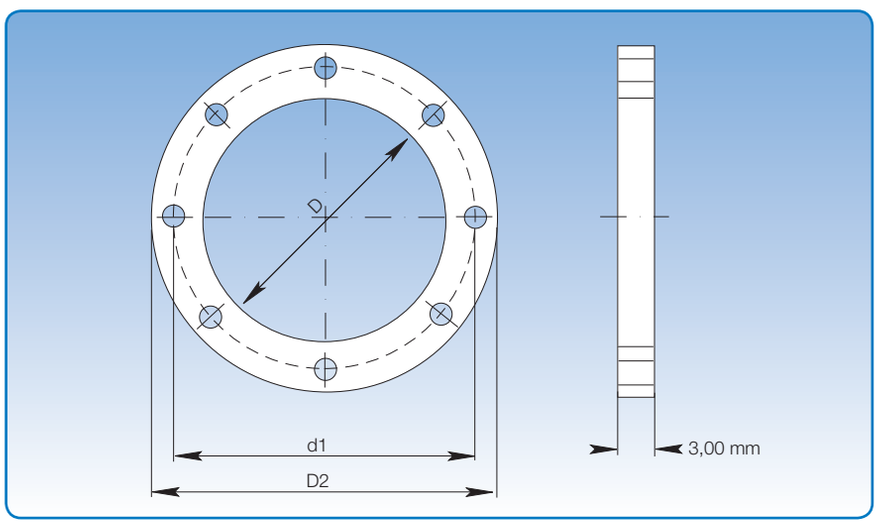
Diameter: ø80 - ø400 mm.

Rubber flanges are made of 3.00 mm NITRIL rubber, adapted to JKF's standard flange range.

Hardness: 65 shore.

Operating temperature range: -10°C to +70°C.

The rubber flanges are resistant to oil and petrol and to some degree to acids and bases.



Dimensional specifications are given in the table below.

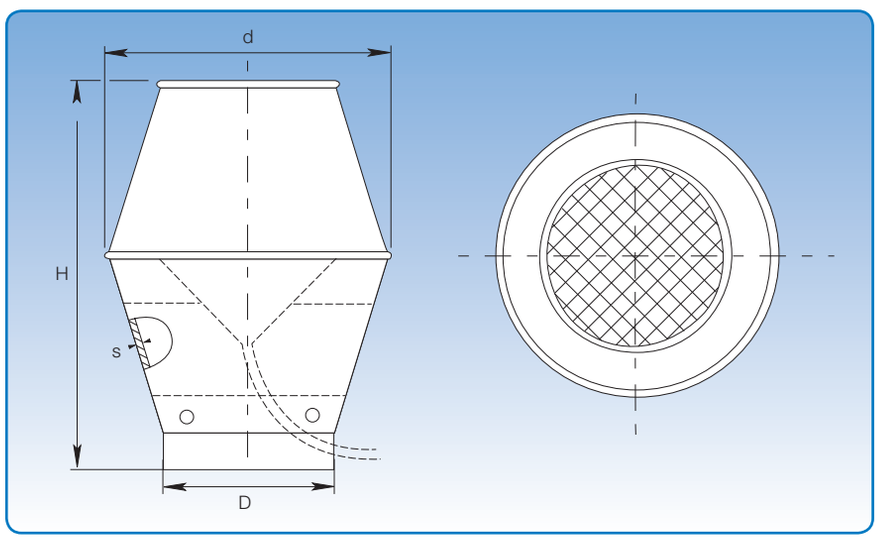
Dimensions								
Item no.	Diameter nominal	D mm	d1 mm	D2 mm	Flange width mm	Hole size mm	Number of holes	Weight kg
820150080	80	83	115	133	25	8	8	0,024
820150100	100	103	135	153	25	8	8	0,030
820150120	120	123	155	173	25	8	8	0,032
820150140	140	143	175	193	25	8	8	0,050
820150150	150	155	185	205	25	8	8	0,050
820150180	175	185	215	235	25	8	8	0,060
820150200	200	205	235	255	25	8	12	0,080
820150225	224	230	260	280	25	8	12	0,080
820150250	250	255	285	305	25	8	12	0,085
820150300	300	305	336	355	25	8	12	0,105
820150350	350	355	389	415	26	10	12	0,130
820150400	400	405	439	465	30	10	16	0,150

Jet caps, stainless steel

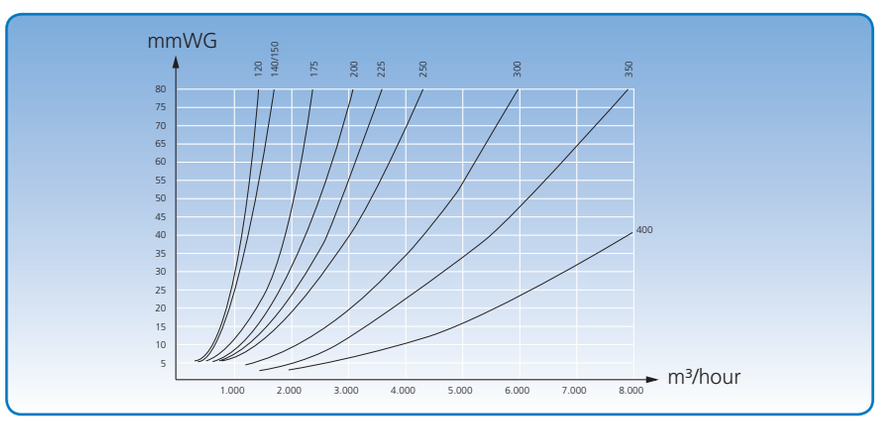
Diameter: ø120 - ø400 mm.

Jet caps are supplied with the same assembly methods as duct systems.

They are fitted with an internal cone and drain hose for disposal of water.



Dimensional specifications are given in the table below.



Pressure loss curves for diameter ø120 - ø400 mm.

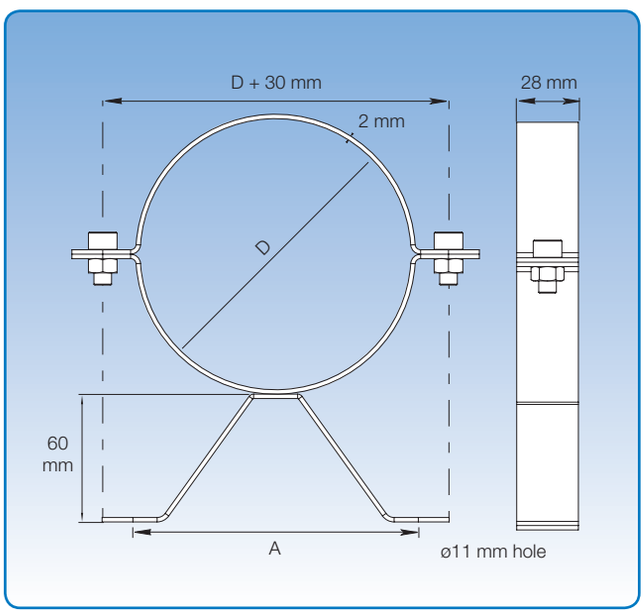
Dimensions

Item no.	D mm	d mm	s mm	H mm	Weight kg
1940120	120	185	0,70	325	3,30
1940140	140	215	0,70	365	3,75
1940150	150	230	0,80	390	4,00
1940180	175	275	0,80	445	5,40
1940200	200	305	0,80	490	6,00
1940220	224	345	0,80	535	6,80
1940250	250	380	0,80	590	7,70
1940300	300	460	0,80	690	8,00
1940350	350	535	0,80	785	10,70
1940400	400	610	0,80	885	13,50

The item numbers stated are for jet caps assembled using pull rings [f.b].

Jet caps are also available for other assembly methods. See p. 5 for assembly methods.

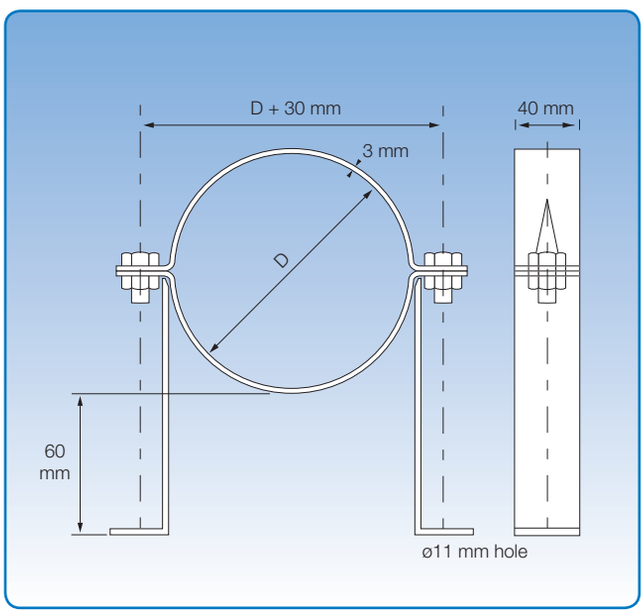
Clip bands, stainless steel



Diameter: ø80 - ø300 mm.

Clip bands are supplied for mounting of duct systems. 3 different mounting principles are available: as shown, wall mounted and hanging.

Recommended distance between clip bands: 1 clip band to every other duct assembly.



Diameter: ø350 - ø400 mm.

Clip bands are supplied for mounting of duct systems. 3 different mounting principles are available: as shown, wall mounted and hanging.

Recommended distance between clip bands: 1 clip band to every other duct assembly.

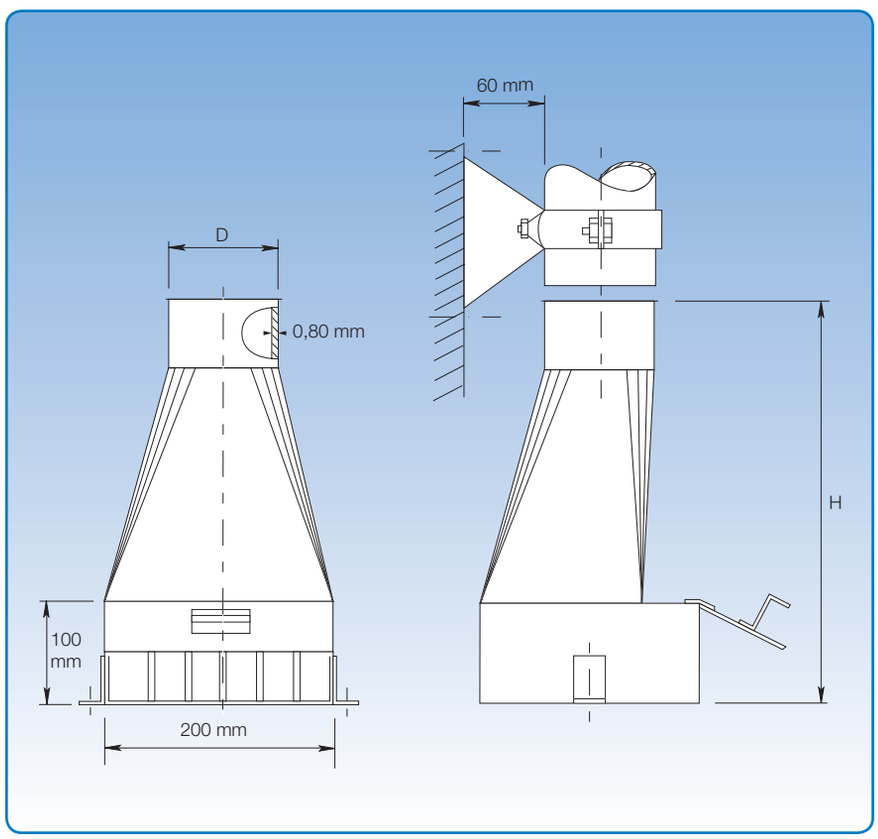
Dimensions			
Item no.	D mm	A mm	Weight kg
4670285	80	132	0,11
4671285	100	132	0,13
4672285	120	132	0,16
4674285	140	132	0,19
4675285	150	132	0,21
4677285	175	210	0,25
4678285	200	210	0,28
4679285	224	210	0,30
4680285	250	210	0,32
4681285	300	210	0,36
4683285	350	210	1,15
4684285	400	210	1,30

Sweep ups, stainless steel

Diameter: ø80 - ø200 mm.

JKF's standard range includes sweep ups for suction of floor surfaces, and they are made of 0.80 mm sheet metal.

Sweep ups are fitted with grill and no gate, but they can be supplied with both.

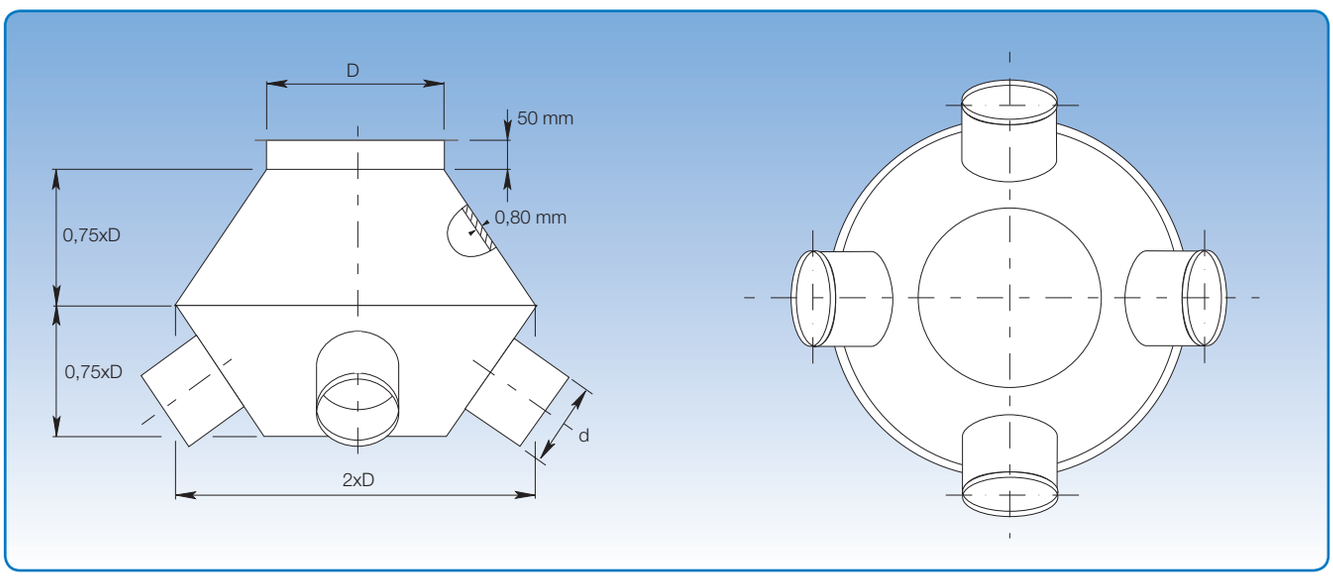


Dimensional specifications are given in the table below.

Dimensions					
Item no. standard	Item no. with gate and grill	D mm	H mm	Weight kg standard	Weight kg with gate, no grill
4670402	4670502	80	390	3,10	3,50
4671402	4671502	100	390	3,20	3,53
4672402	4672502	120	390	3,40	3,77
4674402	4674502	140	390	3,50	3,79
4675402	4675502	150	390	3,60	3,81
4677402	4677502	175	390	4,20	4,58
4678402	4678502	200	390	4,40	4,80

The item numbers stated are for sweep ups assembled using pull rings [f.b].

Sputniks, stainless steel



Dimensional specifications are given in the table below.

Diameter: ø80 - ø400 mm.

Sputniks are for use where several suction heads are merged into a single suction duct.

Sputniks are available with 2 - 9 spigots.

State D and d and number of spigots plus assembly method when ordering.

Dimensions

D mm	Weight kg
80	1,15
100	1,44
120	1,80
150	2,94
175	4,60
200	7,20
250	9,00
300	10,80
350	15,66
400	18,90

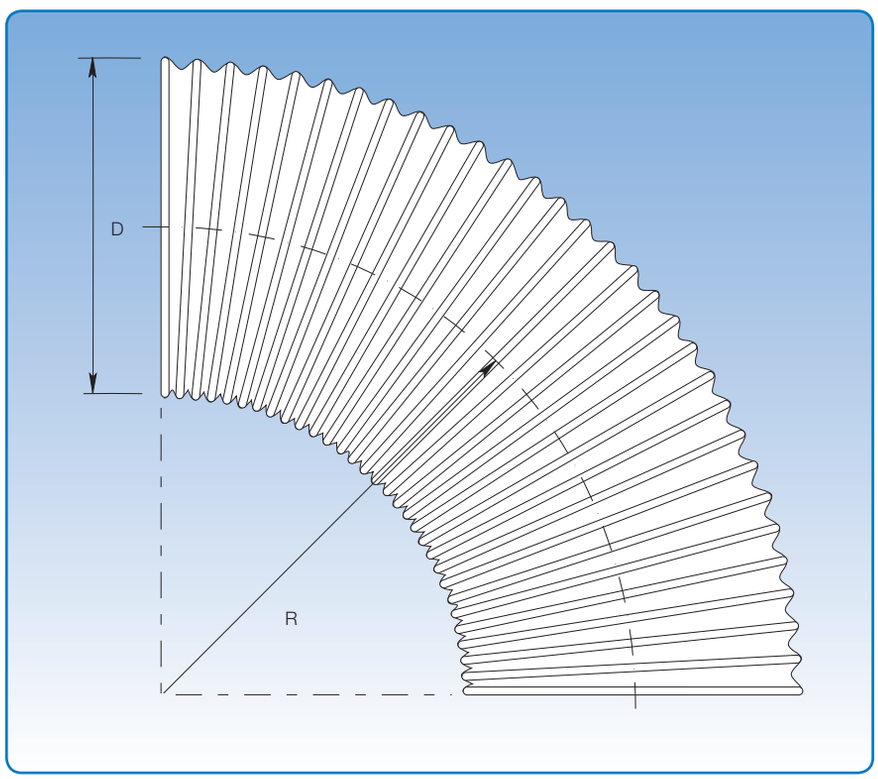
Purflex hoses

Diameter: ø50 - ø400 mm.

Purflex hoses are ideal for use in the chemical and petrochemical industries, for gases, cement dust, granulates, abrasive powders, shavings etc.

They are very hard-wearing and made of 100% polyurethane in a single film layer with welded-in, corrosion protected steel spiral.

Temperature range tolerance from -30°C to +80°C.



Dimensional specifications are given in the table below.

Dimensions

Item no.	D mm	R mm	Weight kg / m
8364050	50	160	0,85
8364060	60	180	0,90
8364063	63	200	1,00
8364065	65	250	1,00
8364070	70	300	1,00
8364080	80	318	1,30
8364090	90	350	1,60
8364100	100	380	1,70
8364120	120	400	1,90
8364125	125	450	1,90
8364130	130	500	2,00
8364140	140	500	2,10
8364150	150	500	2,40
8364160	160	500	2,70
8364180	180	500	2,90
8364200	200	550	3,00
8364225	225	550	3,20
8364250	250	550	3,40
8364275	275	550	3,60
8364300	300	550	3,80
8364315	315	550	3,90
8364350	350	550	4,00
8364400	400	600	4,50

Notes

JKF duct systems, stainless steel product programme

JKF Industri A/S develops and manufacturers components for dust extraction and air filtration systems. The product programme comprises ducts, duct systems, filters and fans. The components are sold to ventilation producers and contractors through a world-wide network of dealers, collaborators and subsidiary companies.

The components are today used by a wide range of businesses and companies within the woodworking, milling, agriculture, plastic, paper, textile, recycling, powder painting, sandblasting, metal working industries - including the welding, plasma, laser, tobacco and medical industries.

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CLEAN AIR INNOVATION SINCE 1957

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