

DUCT SYSTEMS, STAINLESS STEEL

PRODUCT PROGRAMME



DEDICATED TO CLEAN AIR

Sales, delivery and payment terms

1. Applicability

Applicability: These sales, delivery and payment terms (hereinafter "the Terms") apply to all offers, orders and deliveries supplied by JKF Industri A/S, CVR no. 17085204 (hereinafter "JKF") to any business customer (hereinafter "the Buyer") (hereinafter collectively referred to as "the Parties"), unless expressly agreed otherwise.

JKF cannot be bound by terms applied by the Buyer, including purchasing terms, even if JKF has not objected to such terms.

2. Information in sales materials and price lists

Details given in JKF's brochures, advertising, product descriptions, price lists etc. on capacity, resistance to wear, performance, technical data, dimensions, weight or the like are not binding on JKF. We cannot be held responsible for printing errors and model changes.

3. Quotes

All quotes are given subject to the goods being unsold. If JKF provides a quote that does not stipulate a specific time for acceptance, the quote will expire automatically if the Buyer's confirmation is not received by JKF within 30 days of the date of the quote.

4. Prices

All prices are in DKK and ex-VAT, customs and other duties, packaging, freight costs and insurance and all other costs to be borne by the customer.

Prices are stated in EUR exclusive of the aforementioned costs for Buyers located in countries, which are members of the European Economic and Monetary Union (the Euro).

Unless otherwise stated on JKF's quote or order confirmation, JKF reserves the right to revise prices – even after issuing and order confirmation – in the event of increased production costs and the like.

All orders worth less than DKK 1500 (excluding the above costs) are subject to an administration fee of DKK 225.

5. Payment terms

JKF is entitled to issue an invoice when delivery is complete. Payment terms are current month + 20 days net calculated from the date of invoice unless otherwise agreed in writing.

JKF obtains credit insurance for all customer receivables. If the Buyer's credit fails to be approved, JKF is entitled to demand prepayment or alternative guarantee.

If payment is made after the due date and the delay is no fault of JKF, JKF is entitled to charge interest on the sum outstanding as from the due date, at a rate equivalent to 2% per month or part thereof.

The Buyer is not entitled to offset any counter-claims against JKF unless expressly agreed in writing by JKF, and does not have the right to withhold any of the purchase sums by reason of counter-claims of any kind.

6. Right of ownership

For Buyers in the United Kingdom:

The goods shall remain the property (i.e. title) of JKF until: (i) the full price for them is paid; and (ii) all sums for any other goods or services then properly due and payable from the Buyer are paid to JKF. JKF may at any time attribute any money received by it from the Buyer in any order as JKF may decide. Until such payment, the Buyer shall hold the goods on a fiduciary basis as the bailee or depository of JKF, and shall not dispose of them. However, subject to JKF's prior written consent, the Buyer may on the Buyer's own account sell the goods to any customers but shall not do so after any step is taken or made for any composition or arrangement with creditors generally, liquidation, winding-up, dissolution, administration, receivership or bankruptcy of the Buyer.

If any such step occurs, or JKF reasonably expects that such a step is soon to occur, or any payment due to JKF from the Buyer becomes overdue, JKF may by written notice terminate the Buyer's right (if any) to sell the goods and JKF may then recover such goods and for that purpose enter any premises, subject to the Buyer's continued liability to pay the price for the goods. 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 such installation or joining has taken place.

JKF reserves the right within the limitations of mandatory laws to retention of title to the item sold until payment for the entire purchase sum, plus any costs incurred, has been made to JKF. 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 such installation or joining has taken place.

For Buyers outside the United Kingdom:

JKF reserves the right within the limitations of mandatory

laws to retention of title to the item sold until payment for the entire purchase sum, plus any costs incurred, has been made to JKF. 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 such installation or joining has taken place.

7. Delivery

The delivery clause agreed between the Parties is to be interpreted in accordance with the INCOTERMS current at the time of signing the agreement.

The delivery date is set by JKF according to best judgement, and if it cannot be observed, the Buyer will be informed accordingly, with when, as far as possible, delivery can be expected to take place. Any delay does not give the Buyer the right to cancel the sale and/or claim any form of financial compensation from JKF.

8. Packaging

All orders are subject to a packaging fee of 2.2 % of the order value.

Packaging may only be returned by prior written agreement. Return of packaging is at the Buyer's own expense and risk. The Buyer's packaging will be credited when received and upon final approval by JKF that it is in much the same condition as when delivered to the Buyer.

9. Product information and confidentiality

All illustrations, technical drawings and brochures issued by JKF before or after the contract have been entered into remain the property of JKF and must be returned to JKF on request. Such materials must be treated with strict confidentiality and cannot be used, copied or passed on without written agreement, or abused in any other manner.

The Buyer undertakes to generally observe confidentiality concerning all aspects of JKF known to the Buyer as a result of the information the Parties have exchanged in the course of their dealings.

Breach of this provision by the Buyer shall incur a fine payable to JKF of DKK 75,000. The fine shall be payable for each breach of the provision, and if the breach consists of continuation of a previous breach, the fine shall be payable for each 14 day period of continuation or part thereof. Payment of a fine shall not relieve the Buyer of the above obligations, nor prevent or constrain JKF from claiming compensation for any loss JKF may have incurred arising from the breach, in that payment of the fine by the Buyer shall not be included in calculation of JKF's loss. In addition to the above, JKF is entitled to take out an injunction.

10. Liability for defects and deficiencies and warranty claims

Upon delivery, the Buyer shall immediately perform a thorough examination of the goods, including quantity and specifications.

Should the Buyer wish to claim for any defects or deficiencies, including with regard to the quantity or specifications delivered, which the Buyer has or should have discovered in the course of thorough examination of the goods, a written claim shall be submitted to JKF immediately after delivery. JKF is entitled to reject any claims received after the expiry of the deadline stated above.

JKF warrants performing redelivery/remedy of goods which are defective or deficient due to material or manufacturing error for goods which the Buyer has not nor should have discovered by thorough examination for a period of 12 consecutive months after delivery.

However, the Buyer shall submit a claim to JKF immediately if discovering such defects or deficiencies.

Defective or deficient goods will either be remedied or replaced within a reasonable period of time at JKF's discretion. Modification/interference with the goods without JKF's written consent releases JKF from any obligation.

Remedy/redelivery by JKF of elements of a delivery shall be on the same terms and conditions as for the original delivery, including those stated in item 7. JKF's obligation to remedy or redeliver does not, however, apply to any part of an order more than 1 year after delivery to the Buyer.

Once liability for the order has been transferred to the Buyer, JKF bears no responsibility for any defects over and above the obligations specified in this provision.

11. Force majeure

JKF cannot be held liable for non-fulfilment of its undertakings, nor for loss incurred by the Buyer due to unusual circumstances that prevent, inhibit or add extra cost to fulfilment of the contract, and that are beyond JKF's control, including industrial disputes, strikes, lockout, fire, war, mobilisation, unforeseen military call-up, acts of sabotage, requisitioning, confiscation, currency restrictions, import ban, export ban, riots, unrest, extreme weather conditions,

fuel shortage and major increases in prices or taxes/duties, 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 date will be correspondingly postponed. If delivery is prevented for more than 12 weeks, JKF is entitled to cancel the relevant contract without liability.

12. Returns

Items sold can only be returned by prior written agreement, and upon obtaining a returned goods order number. Returns will be at the Buyer's expense and risk and should include JKF's invoice number and the date of the original delivery.

Returned goods will only be credited by prior agreement and subject to approval of the goods returned. Custom-made goods will not be credited. If JKF is charged for shipping costs etc., JKF is also entitled to demand these be refunded by the Buyer and to offset these against any claims by the Buyer against JKF.

13. Product liability

JKF's product liability is subject to the rules of Danish law on product liability with the limitation specified in item 12 (limitation of indirect loss and of cover in accordance with insurance cover).

JKF cannot be held liable for operating loss, loss of profit, loss of useful value, loss of business opportunities, lost savings or other indirect loss or consequential damages in connection with product liability. To the extent that product liability may be imposed on JKF with regard to third parties, the Buyer is obliged to compensate JKF to the same extent that JKF's liability is limited as per the above. These limitations to JKF's liability do not apply if JKF 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, that party must immediately inform the other party. The Buyer can be sued at the same court that handles any claims for compensation against JKF, in consequence of damage alleged to have been caused by one of JKF's deliveries. JKF's liability for product damage shall always be limited to the remaining insurance cover.

14. Limitation of liability

Notwithstanding the above, JKF cannot be held liable for any indirect loss such as operating loss, loss of profit, loss of useful value, loss of business opportunities, lost savings, consequential loss, loss of time etc., which a defect or deficiency could cause the Buyer or a third party, including indirect loss etc., arising as a result of delayed delivery or defects/deficiencies in the goods sold.

15. Invalidity

Should one or more of the provisions in these terms be deemed invalid, illegal or non-applicable, the validity, legality or applicability of all other provisions shall not be affected or lessened as a result thereof.

16. Jurisdiction and court of venue

All disputes between the parties shall be settled under Danish law including the Danish Sale of Goods Act, but with the exception of Danish jurisdiction rules. The International Sale of Goods Act (CISG) shall neither be wholly nor partially applied.

Any dispute regulated by the terms shall be resolved by arbitration at the Danish Institute of Arbitration, according to the institute's rules, which apply when an arbitration case is brought with the amendments stated below.

However, the Parties agree that the arbitration tribunal shall consist of 3 members, of whom each party will appoint one member, and the Danish Institute of Arbitration will appoint the tribunal chairman. If a party fails to appoint a member within 14 days of being requested to do so by the Danish Institute of Arbitration, the institute will appoint a member on behalf of that party.

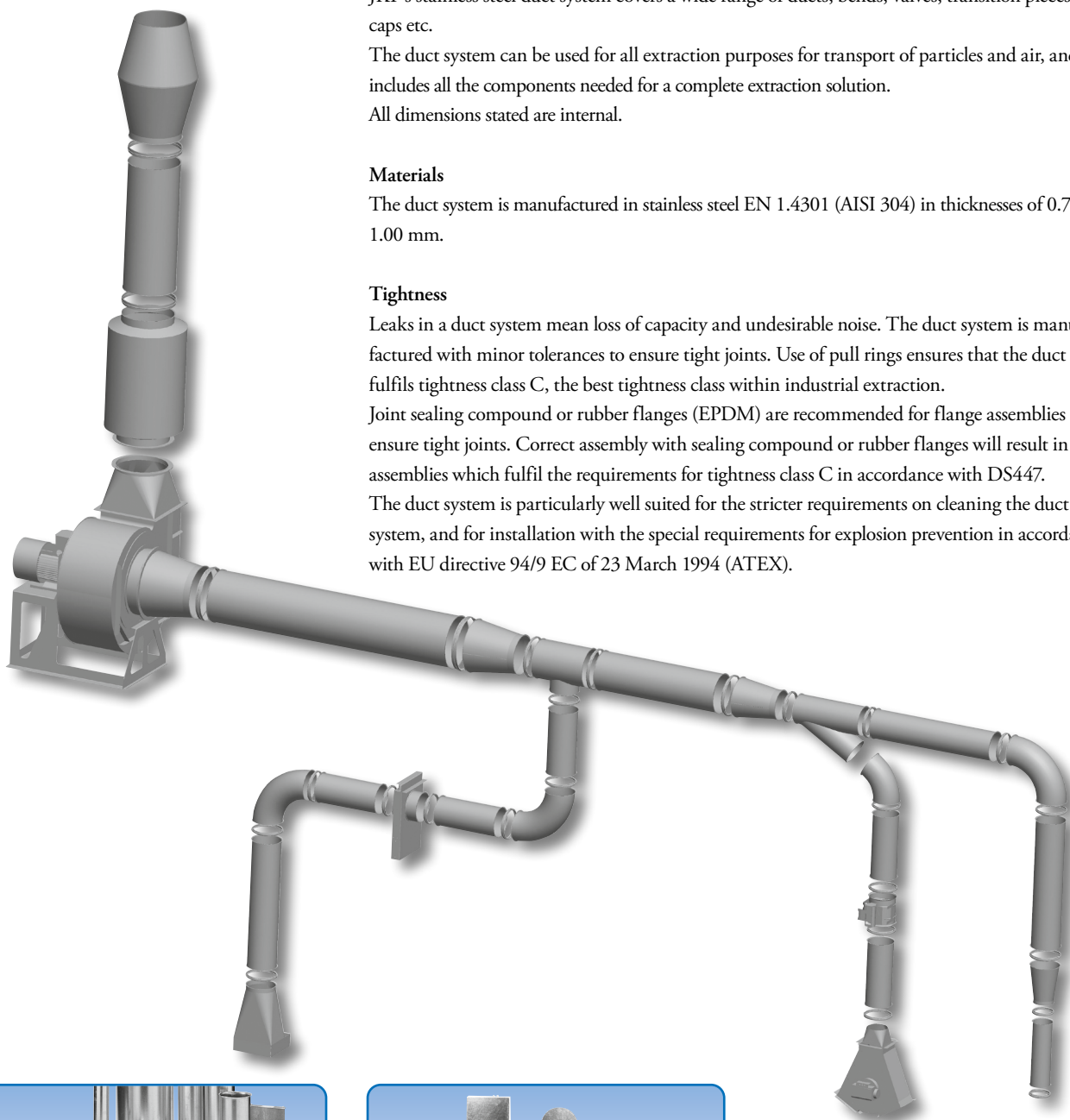
The tribunal shall sit in Hadsund.

The original version of this document is in Danish. In the event of discrepancies between the Danish and English versions, the Danish version will take preference.

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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

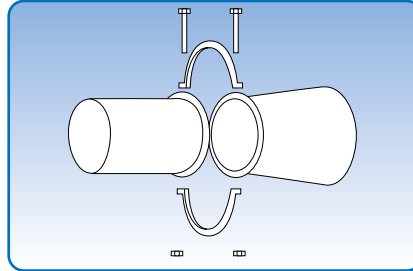
The high, uniform quality of the duct system along with efficient assembly and sealing ensures quick and easy assembly with the ability to perform subsequent modifications.

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

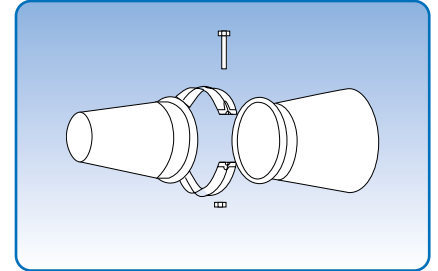
Pull rings or flat iron flanges are used for assembly, regardless of duct dimension, requirements for strength, tightness, noise and ease of assembly.

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

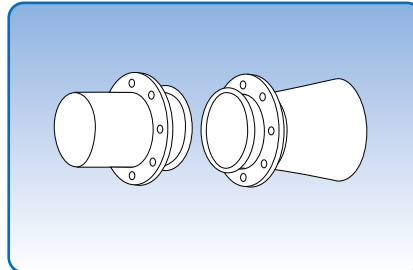
Item numbers for pull ring assembly products are stated in this catalogue [f.b].



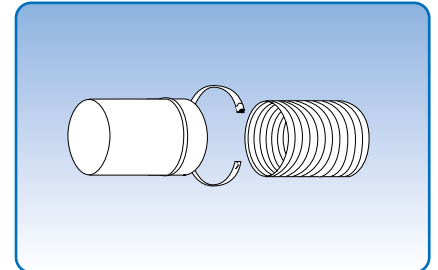
For pull rings [f.b]



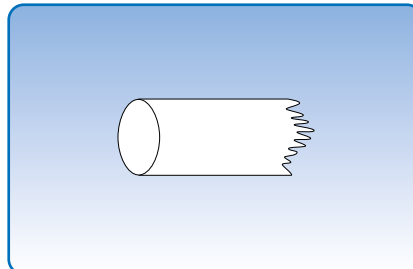
For wide pull rings [f.bb]



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



For hoses [f.sl]



Smooth [g]

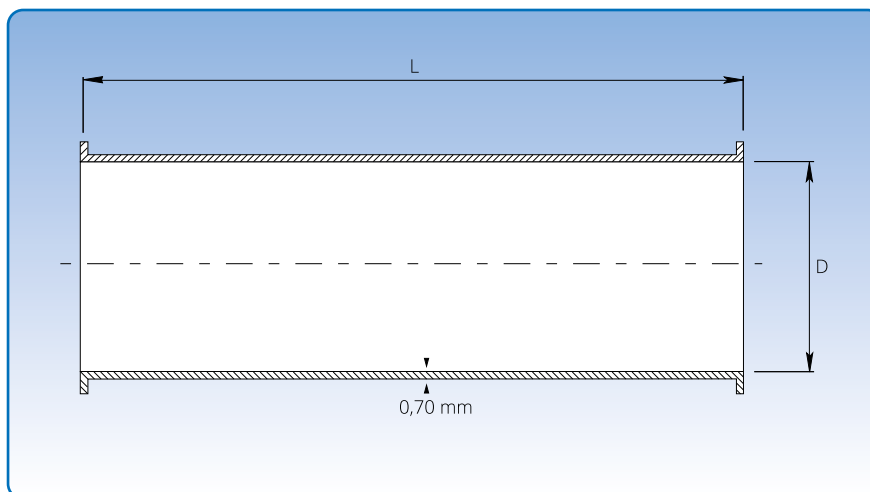
Laser welded and longitudinally lock formed ducts, stainless steel

Diameter: ø80 - ø1000 mm.

Laser welded ducts are made of 0.70 mm sheet metal.

Longitudinally lock formed ducts are made of 0,80 mm sheet metal.

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



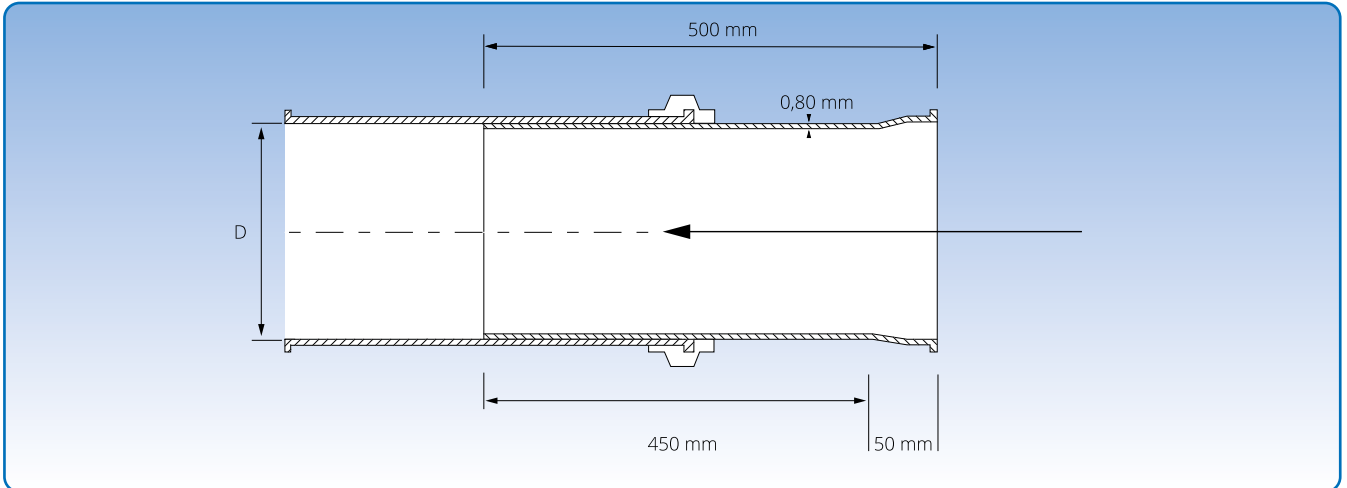
Dimensional specifications are given in the table below.

D mm	Item no. L = 0.5 m	Weight at L = 0.5 m kg	Dimensions		Item no. L = 2.0 m	Weight at L = 2.0 m kg
			Item no. L = 1.0 m	Weight at L = 1.0 m kg		
Laser welded						
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
125	10900311	0,97	10900321	2,33	10900331	4,28
140	10900411	1,23	10900421	2,46	10900431	4,93
150	10900511	1,32	10900521	2,64	10900531	5,28
160	10900611	1,49	10900621	2,99	10900631	5,60
175	10900711	1,58	10900721	3,17	10900731	6,33
180	10900751	1,44	10900761	2,88	10900771	5,28
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
315	10901311	3,20	10901321	5,18	10901331	10,56
350	10901411	3,08	10901421	6,16	10901431	12,32
400	10901511	3,52	10901521	7,04	10901531	14,07
Longitudinally lock formed						
450	10901711	5,15	10901721	10,30	10901731	20,60
500	10901911	5,70	10901921	11,40	10901931	22,80
550	10902011	6,25	10902021	12,50	10902031	25,00
600	10902111	6,80	10902121	13,60	10902131	27,20
630	10902211	7,20	10902221	14,40	10902231	28,80
650	10902311	7,50	10902321	15,00	10902331	30,00
700	10902411	8,00	10902421	16,00	10902431	32,00
750	10902511	8,50	10902521	17,00	10902531	34,00
800	10902611	10,00	10902621	20,00	10902631	40,00
850	10902711	22,20	10902721	32,95	10902731	54,45
900	10902811	23,60	10902821	35,10	10902831	48,10
950	10902911	24,99	10902921	37,24	10902931	51,74
1000	10903011	26,38	10903021	39,38	10903031	65,38

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: $\varnothing 100 - \varnothing 500$ mm.

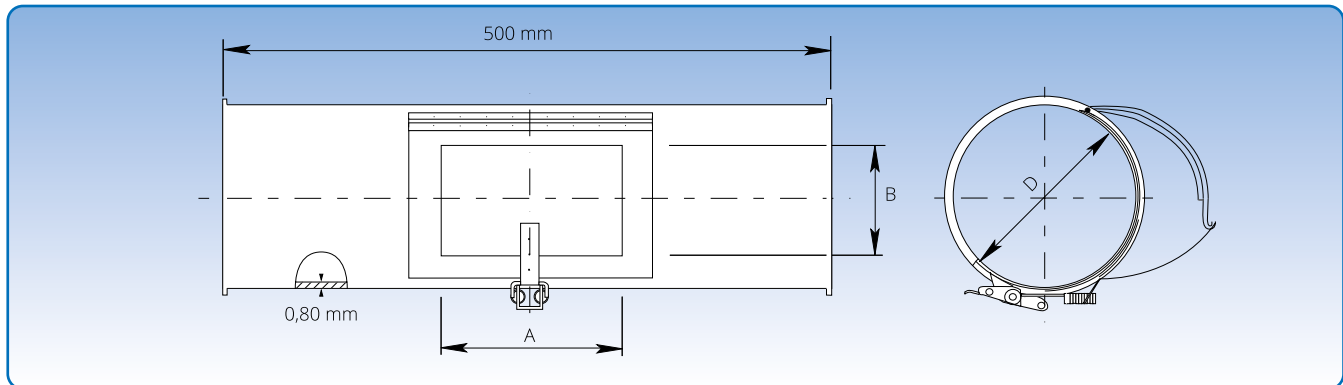
Telescopic ducts are made of 0.80 mm sheet metal, and supplied with rapid lock pull ring, including rubber insert. Rapid lock pull rings are electro-galvanised.

Item no.	Dimensions		Weight kg
	D mm		
1099561	100		0,98
1099564	120		1,18
1099565	125		1,55
1099570	140		1,38
1099573	150		1,47
1099574	160		1,90
1099579	175		1,74
1099580	180		2,24
1099582	200		1,99
1099585	224		2,23
1099588	250		2,40
1099594	300		3,00
1099596	315		3,60
1099598	350		3,95
1099600	400		5,00
1099603	450		5,70
1099604	500		6,30

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 - ø1000 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.

Item no.	Dimensions		Weight kg
	D mm	B x A mm	
4670370	80	80 x 150	0,80
4671370	100	100 x 150	1,00
4672370	120	100 x 150	1,20
4673370	125	100 x 150	1,25
4674370	140	100 x 150	1,40
4675370	150	100 x 150	1,50
4676370	160	100 x 150	1,60
4677370	175	100 x 150	1,75
4677470	180	100 x 150	1,80
4678370	200	100 x 150	2,00
4679370	224	100 x 150	2,25
4680370	250	100 x 150	2,50
4681370	300	100 x 150	2,85
4682370	315	100 x 150	3,15
4683370	350	150 x 200	3,25
4684370	400	150 x 200	4,50
4685370	450	150 x 200	6,44
4686370	500	150 x 200	7,03
4687370	550	150 x 200	7,62
4688370	600	150 x 200	8,21
4689370	630	150 x 200	8,56
4690370	650	150 x 200	8,80
4691370	700	150 x 200	9,39
4692370	750	150 x 200	9,98
4693370	800	150 x 200	10,58
4694370	850	150 x 200	11,16
4695370	900	150 x 200	11,76
4696370	950	150 x 200	12,34
4697370	1000	150 x 200	12,92

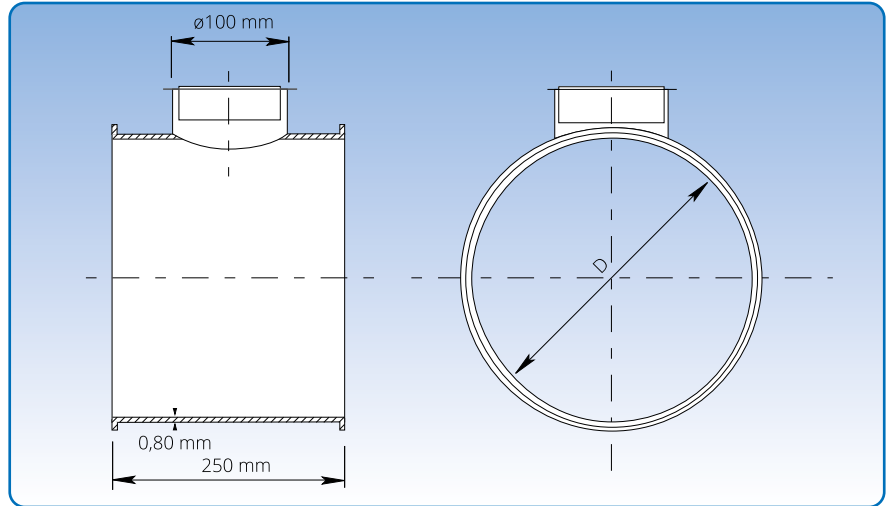
The item numbers stated are for ducts with access door assembled using pull rings [f.b].

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

Ducts with cleaning spigot, stainless steel

Diameter: $\varnothing 100$ - $\varnothing 400$ mm.

PVC lid is easy to put on and take off. All cleaning spigots have a $\varnothing 100$ mm opening.



Dimensional specifications are given in the table below.

Item no.	Dimensions		Weight kg
	D mm		
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].

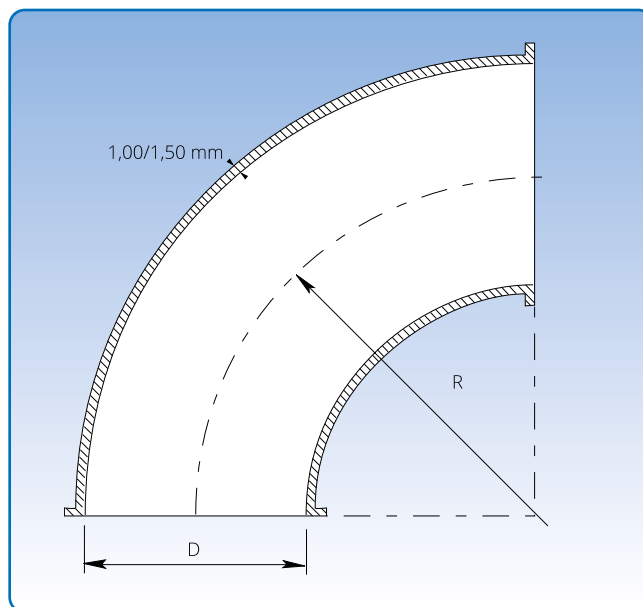
Ducts with cleaning spigot are also available for other assembly methods. See p. 5 for assembly methods.

Pressed bends, stainless steel

Diameter: $\varnothing 80$ - $\varnothing 200$ mm.

The bends are pressed.

Bends $\varnothing 80$ - $\varnothing 150$ mm are made of 1.00 mm sheet metal,
and bends $\varnothing 200$ mm are made of 1.50 mm sheet metal.



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

Dimensions									
D mm	90°		60°		45°		30°		kg
	Item no.	kg	Item no.	kg	Item no.	kg	Item no.	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].

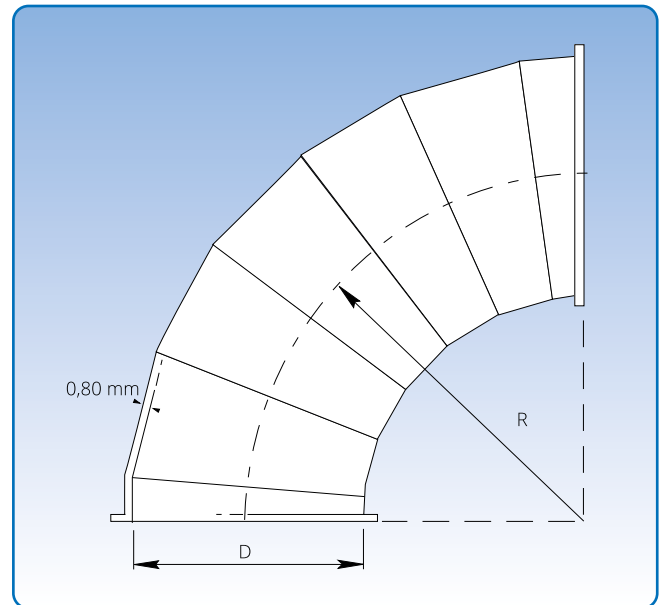
Bends are also available for other assembly methods. See p. 5 for assembly methods.

Segment bends, stainless steel

Diameter: $\varnothing 140$ - $\varnothing 1000$ 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.
 $R = 1.5 \times D$ for all dimensions.

Dimensions										
D mm	90°		60°		45°		30°		15°	
	Item no.	kg	Item no.	kg	Item no.	kg	Item no.	kg	Item no.	kg
140	11991492	1,14	11991462	0,79	11991442	0,61	11991432	0,44	11991412	0,26
160	11991692	1,55	11991662	1,05	11991642	0,75	11991632	0,50	11991612	0,30
175	11991892	1,70	11991862	1,17	11991842	0,91	11991832	0,64	11991812	0,37
180	11991992	1,95	11991962	1,25	11991942	0,95	11991932	0,70	11991912	0,35
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
315	11993262	3,90	11993262	3,90	11993242	2,85	11993232	1,90	11993212	1,10
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
450	11994592	12,00	11994562	7,95	11994542	6,10	11994532	4,15	11994512	2,20
500	11995092	14,65	11995062	9,85	11995042	7,40	11995032	5,00	11995012	2,60
550	11995592	18,00	11995562	13,50	11995542	9,00	11995532	6,80	11995512	1,70
600	11996092	21,50	11996062	16,10	11996042	10,75	11996032	8,05	11996012	4,00
630	11996592	22,40	11996562	16,80	11996542	11,20	11996532	8,40	11996512	4,20
650	11997092	25,00	11997062	18,80	11997042	12,50	11997032	9,40	11997012	4,70
700	11997592	29,00	11997562	21,80	11997542	14,50	11997532	10,90	11997512	5,40
750	11998092	33,00	11998062	24,80	11998042	16,50	11998032	12,40	11998012	6,20
800	11998592	37,50	11998562	28,10	11998542	18,75	11998532	14,05	11998512	7,00
850	11999092	42,50	11999062	32,00	11999042	21,25	11999032	16,00	11999012	8,00
900	11999592	48,00	11999562	36,00	11999542	24,00	11999532	18,00	11999512	9,00
950	12000092	53,00	12000062	39,80	12000042	26,50	12000032	20,00	12000012	10,00
1000	12000592	59,00	12000562	44,00	12000542	29,50	12000532	22,00	12000512	11,00

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

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

30° straight branch pieces, stainless steel

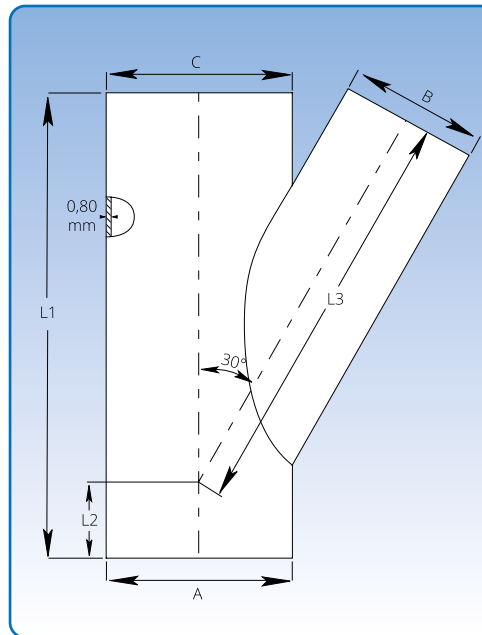
Diameter: ø80 - ø400 mm.

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 $A = C \geq B$.
 $A = C$ must be max. 1000 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

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

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

Example:

A = 350, B = 300, C = 350

L1 = 750 mm

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

L2 = 66,94 p 67 mm

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

L3 = 700,30 p 700 mm

Dimensions						
A=C mm	B mm	L1 mm	L2 mm	L3 mm	α°C	
Choose	80	350	Calculated	Calculated		28,0
	100	350				28,8
	120	350				28,8
	125	400				29,0
	140	450				29,1
	150	450				29,2
	160	450				29,2
	180	550				29,3
	200	550				29,3
	225	600				29,4
	250	750				29,5
	275	750				29,6
	300	750				29,6
	315	850				29,6
	350	950				29,6
	400	1050				29,7
	450	1250				29,7
	500	1250				29,7
	550	1450				29,8
	600	1450				29,8
	630	1650				29,8
650	1650	29,8				
700	1650	29,8				
750	1850	29,9				
800	1850	29,9				
850	2050	29,9				
900	2050	29,9				

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.

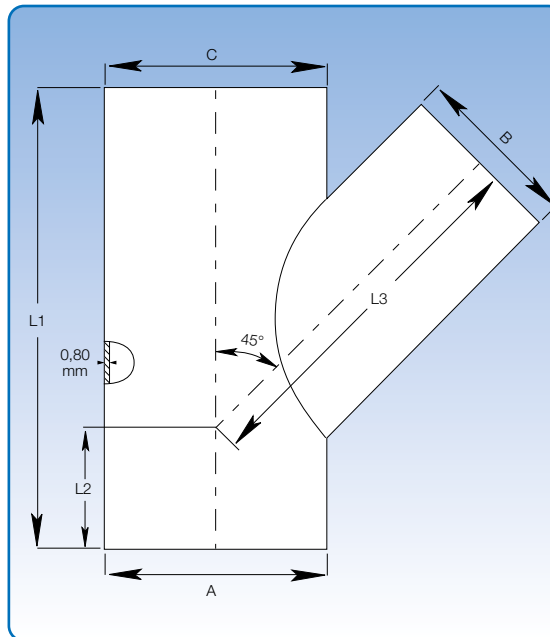
State A-, B- and C dimensions when ordering. Options are limited by

$A = C \geq B$.

$A = C$ must be max. 1000 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

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

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

Example:

A = 300, B = 250, C = 300

L1 = 500 mm

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

L2 = 97,36 p 97 mm

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

L3 = 442,18 p 442 mm

A = C mm	B mm	Dimensions			α
		L1 mm	L2 mm	L3 mm	
Choose	80	300	Calculated	Calculated	43,8
	100	300			43,8
	120	350			44,0
	125	350			44,0
	140	350			44,1
	150	400			44,2
	160	400			44,2
	180	400			44,3
	200	450			44,4
	225	500			44,5
	250	500			44,5
	275	600			44,6
	300	600			44,6
	315	600			44,6
	350	700			44,7
	400	800			44,7
	450	950			44,7
	500	950			44,8
	550	1150			44,8
	600	1050			44,8
630	1150	44,8			
650	1150	44,8			
700	1300	44,8			
750	1300	44,8			
800	1450	44,9			
850	1450	44,9			
900	1650	44,9			

30° trouser pieces, stainless steel

Diameter: ø80 – ø1000 mm.

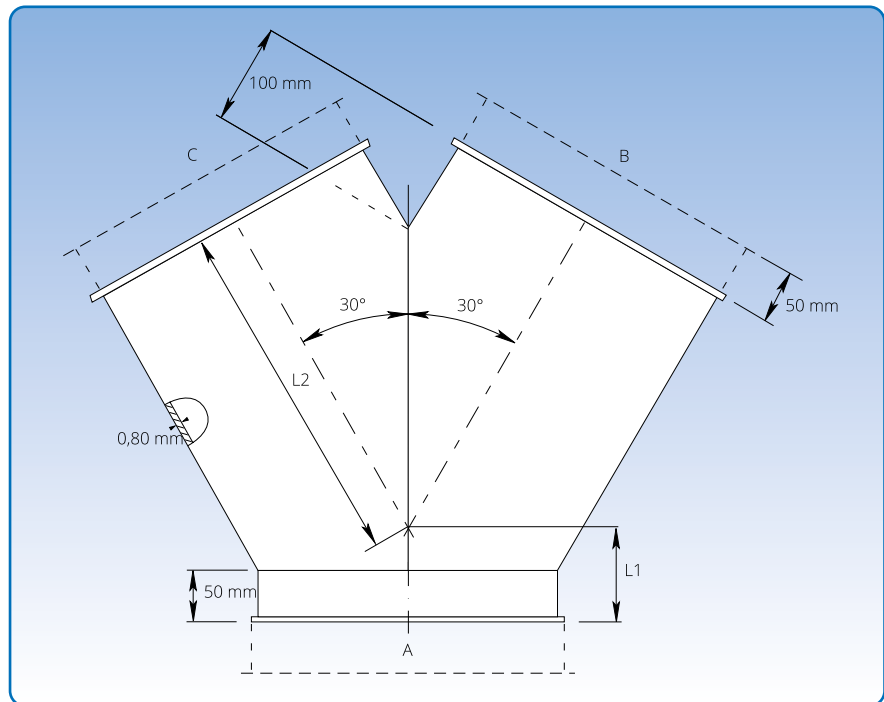
Galvanised trouser pieces are made of 0.80 mm sheet metal.

State A-, B- and C dimensions when ordering. Trouser pieces are extended by 50 mm on legs B and C when assembled by wide pull rings [f.bb], rapid lock pull rings [f.lyn], or loose flanges [f.b.m.fl].

JKF can also supply trouser pieces in other angles and qualities.

For galvanised trouser pieces:

$A \geq B$ and $A \geq C$. When $C \neq B$, the highest value of B and C shall be used for calculation.



Calculation of L1 and L2 for 2 × 30°:

$$L1 = (A \times 0,134) + 50$$

$$L2 = (B \times 0,866) + 100$$

Example:

$$A = B = C = 200$$

$$L1 = (200 \times 0,134) + 50 = 76,8$$

$$L2 = (200 \times 0,866) + 100 = 273,2$$

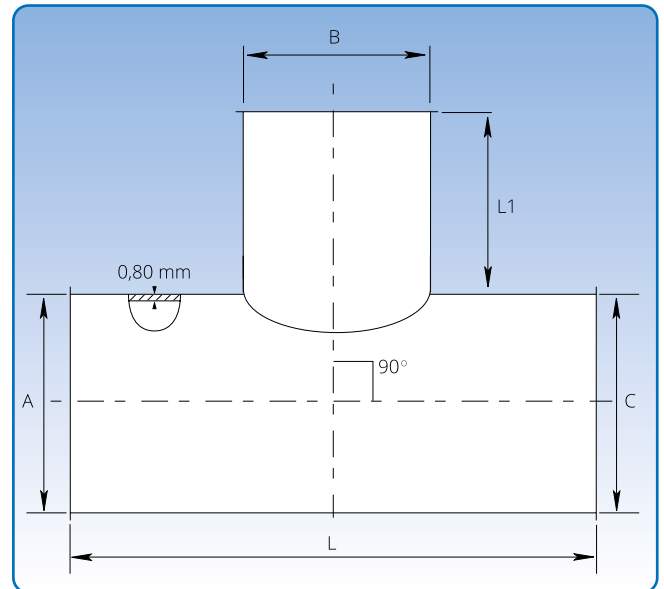
90° T-pieces, stainless steel

Diameter: $\varnothing 80 - \varnothing 1000$ mm.

T-pieces in stainless steel are made of 0,80 mm sheet metal

For dimensions apply:

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



Dimensional specifications are given in the table below.

Dimensions			
B mm	s mm	L mm	L1 mm
80	0,80	230	75
100	0,80	250	75
120	0,80	270	75
125	0,80	275	75
140	0,80	290	75
150	0,80	300	75
160	0,80	310	75
180	0,80	330	75
200	0,80	350	75
225	0,80	425	100
250	0,80	450	100
275	0,80	475	100
300	0,80	500	100
315	0,80	515	100
350	0,80	550	100
400	0,80	600	100
450	0,80	750	150
500	0,80	800	150
550	0,80	850	150
600	0,80	900	150
630	0,80	930	150
650	0,80	950	150
700	0,80	1100	200
750	0,80	1150	200
800	0,80	1200	200
850	0,80	1250	200
900	0,80	1300	200
950	0,80	1350	200
1000	0,80	1400	200

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: $\varnothing 80 - \varnothing 400$ mm.

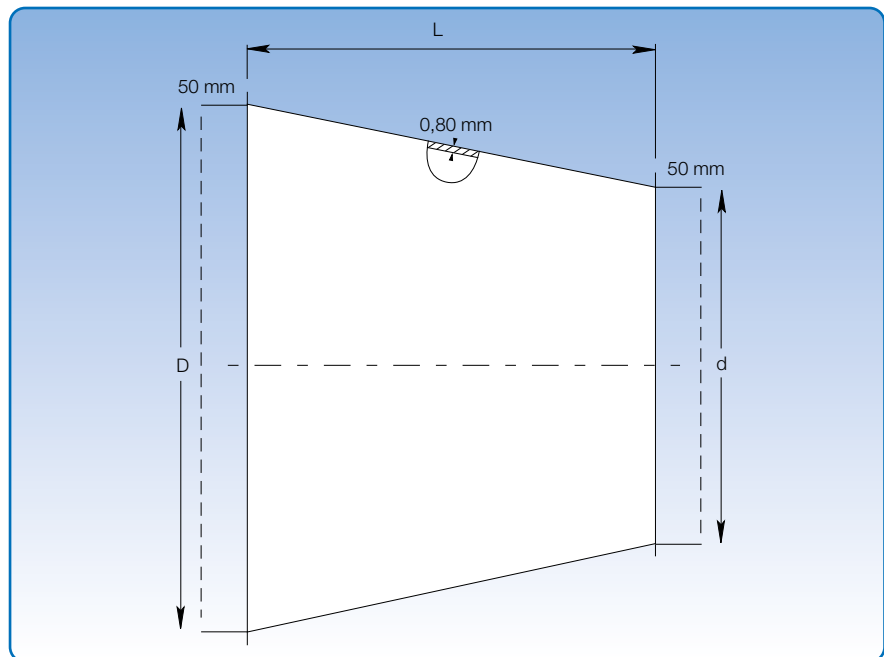
Tapers are spot welded and as standard made of 0.80 mm sheet metal.

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.



Item no.	Dimensions			Weight kg
	D mm	d mm	L mm	
1899120	120	80	100	0,35
1899140	140	100	125	0,45
1899142	140	120	125	0,35
1899150	150	80	125	0,55
1899151	150	100	125	0,42
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
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
1899254	300	224	125	0,60
1899302	300	200	200	1,45
1899304	300	224	200	1,98
1899352	350	250	200	1,15
1899353	400	300	150	1,15
1899400	400	300	200	1,65
1899403	400	350	150	1,35

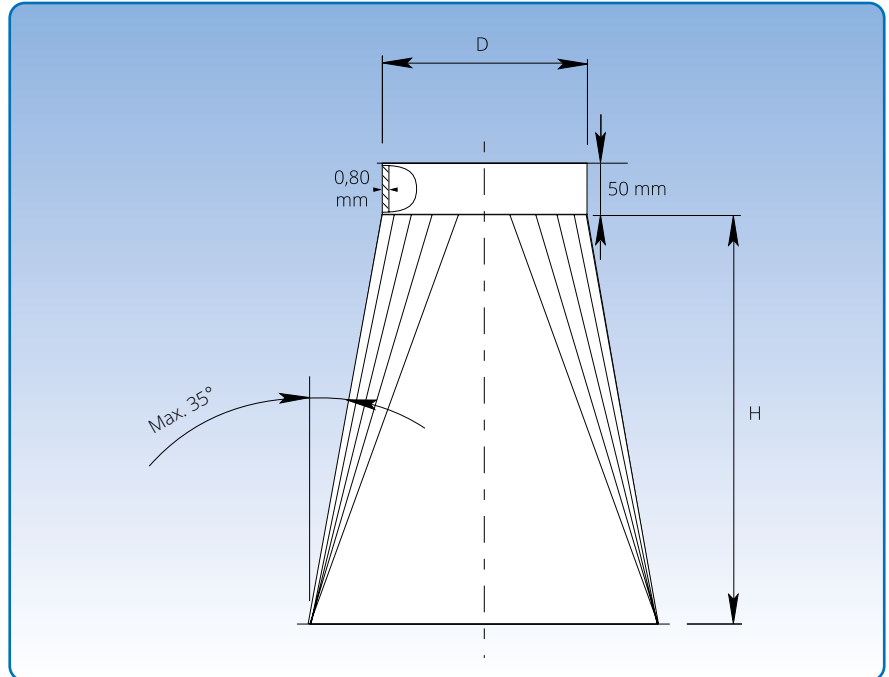
Transition pieces, stainless steel

Diameter: $\varnothing 80 - \varnothing 1000$ 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 \times LU and D plus assembly method when ordering (p. 5).



Calculation of H:

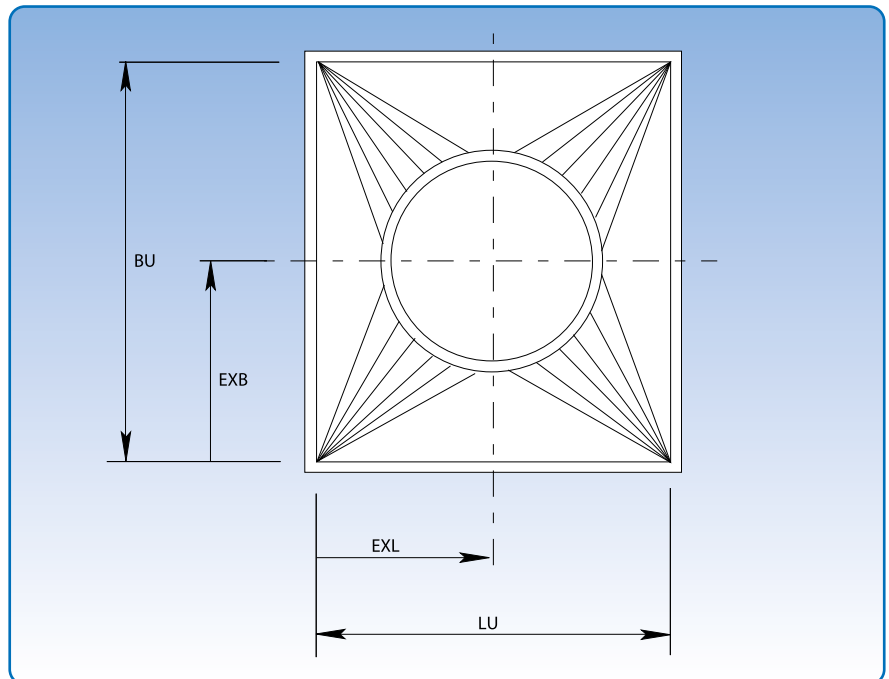
$$H = 240 + 0,5 \times (\text{max. value of LU} - D) \text{ or } (BU - D)$$

Example:

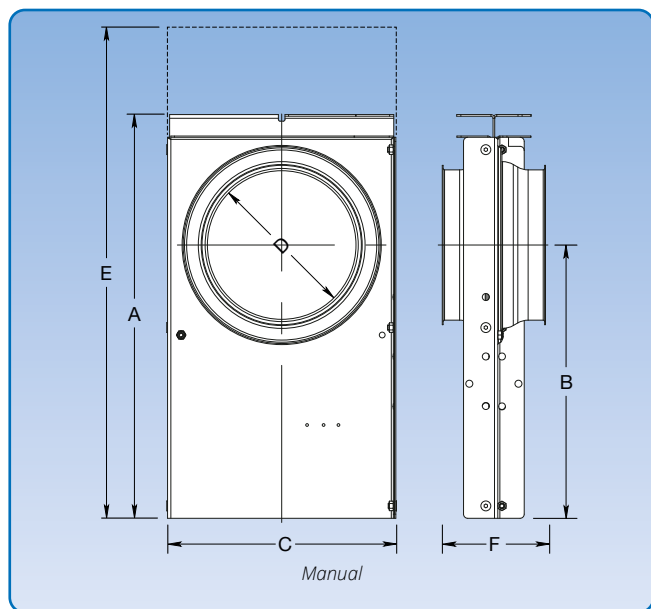
$$D = 350, LU = 400, BU = 600, EXL = 200, EXB = 300$$

$$H = 240 + (0,5 \times 250) = 240 + 125$$

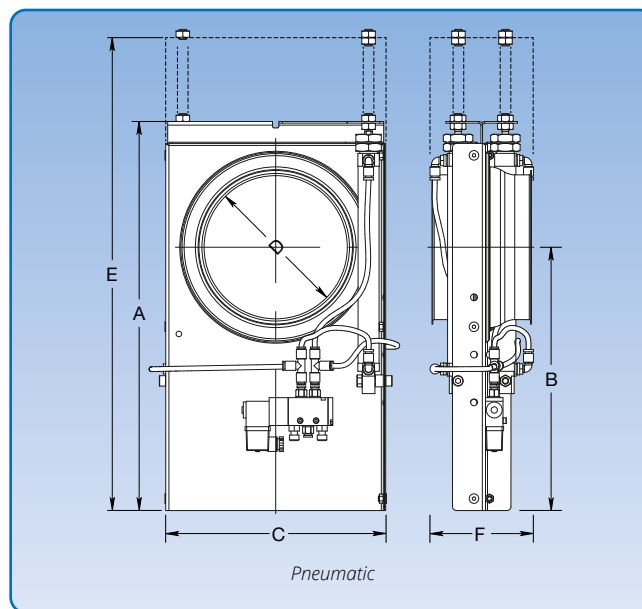
$$H = 365 \text{ mm}$$



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

Sliding dampers are made of 1.50 mm, 2.00 mm and 2.50 mm stainless sheet metal (s). The damper plate slides in the polyether and PEHD gaskets to ensure optimum tightness. The manual model is not constructed with mechanical stop in the damper plate, which can therefore be pulled out.

With pneumatic actuator

The pneumatic damper is for $\varnothing 50$ up to $\varnothing 160$ mm fitted with 1 pneumatic cylinder. From $\varnothing 180$ it is fitted with 2 pneumatic cylinders.

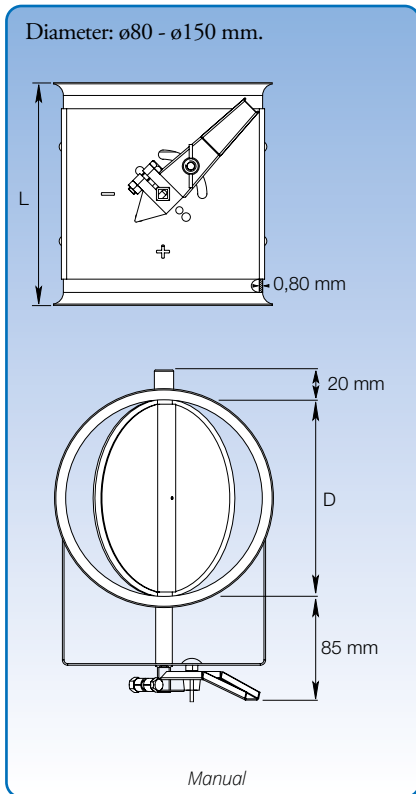
Item no. (Man.)	Item no. (Pneu./ 230 V AC)	D mm	A mm	B mm	C mm	E mm	F mm	Dimensions		Weight (kg) Manual	Weight (kg) Pneu.
								Material thickness Damper plate (mm)	Material thickness Damper house (mm)		
1400502	1400504	50*	220	130	140	295	145	2,0	1,5	1,7	2,8
1400512	1400514	63*	220	130	140	295	145	2,0	1,5	1,7	2,8
1400522	1400524	76*	250	150	160	340	145	2,0	1,5	2,1	3,2
1400532	1400534	80	250	150	160	340	125	2,0	1,5	2,1	3,1
1400542	1400544	100	290	180	180	400	125	2,0	1,5	2,6	3,6
1400562	1400564	108*	340	220	205	475	145	2,0	1,5	3,3	4,7
1400572	1400574	120	340	220	205	475	125	2,0	1,5	3,3	4,3
1400582	1400584	125	340	220	205	475	125	2,0	1,5	3,3	4,3
1400602	1400604	140	390	255	230	550	125	2,0	1,5	4,0	5,1
1400612	1400614	150	390	255	230	550	125	2,0	1,5	4,0	5,1
1400622	1400624	152*	390	255	230	560	145	2,0	1,5	4,3	5,4
1400632	1400634	160	410	270	240	580	125	2,0	1,5	4,3	5,5
1400642	1400644	180	490	330	280	700	125	2,0	1,5	5,7	7,5
1400652	1400654	200	490	330	280	700	125	2,0	1,5	5,8	7,5
1400672	1400674	225	590	405	350	850	165	3,0	2,0	11,7	13,5
1400682	1400684	250	590	405	375	850	165	3,0	2,0	12,1	14,0
14006821	14006841	275	650	445	400	975	165	3,0	2,0	14,7	18,7
1400692	1400694	300	730	505	425	1055	165	3,0	2,0	16,6	20,7
1400702	1400704	315	730	505	440	1055	165	3,0	2,0	16,9	20,9
1400712	1400714	350	800	555	475	1160	165	3,0	2,0	19,6	23,9
1400722	1400724	400	900	630	525	1310	165	3,0	2,0	23,5	28,5
1400732	1400734	450	1035	705	625	1495	250	3,0	3,0	52,1	62,4
1400742	1400744	500	1135	780	675	1645	250	3,0	3,0	59,9	71,0

* Only supplied smooth.

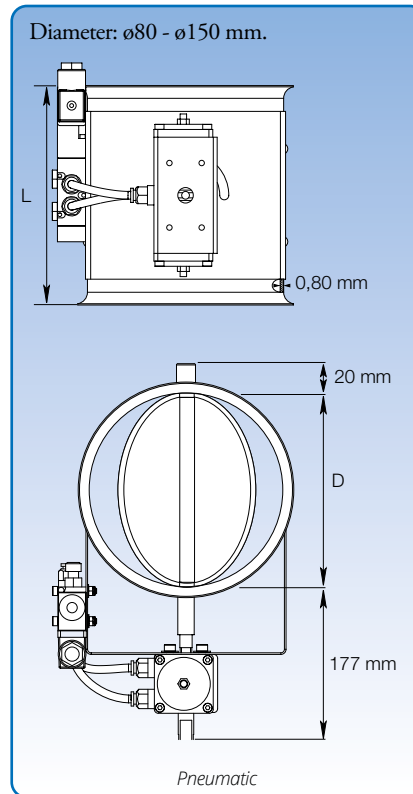
The item numbers stated are for sliding dampers assembled using pull rings [f.b].

Sliding dampers are also available for other assembly methods. See p. 6 for assembly methods.

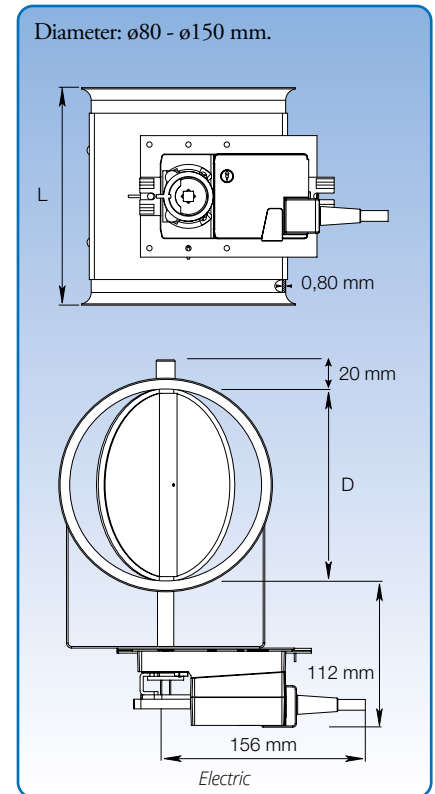
Throttle valves, stainless steel, manual, pneumatic and electric



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

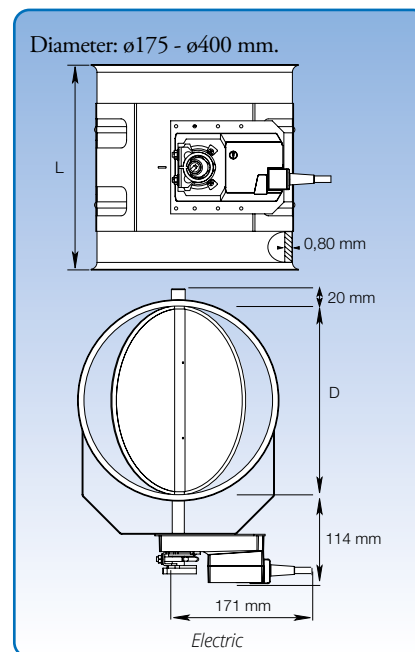
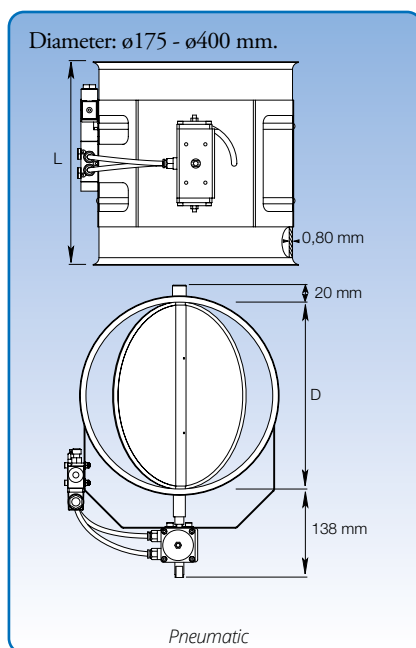
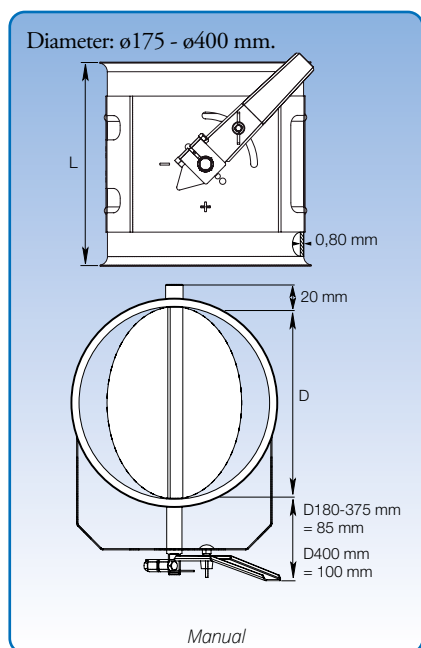
Damper is operated by an electric motor activated by a changeover switch. Setting indicators showing damper position are available as an optional extra. Electrical connection: 230 V AC - 50 Hz or 24 V DC.

Item no. (Man.)	Item no. (Pneu.)	Item no. (Elec.)	Dimensions		Weight (Man.) kg	Weight (Pneu.) kg	Weight (Elec.) kg
			D mm	L mm			
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
1501202	1501222	1501212	125	135	1,05	2,30	1,50
1501232	1501252	1501242	140	170	1,15	4,03	2,10
1501262	1501282	1501272	150	170	1,25	4,15	2,20
1501292	1501312	1501302	160	170	1,85	2,60	1,81

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

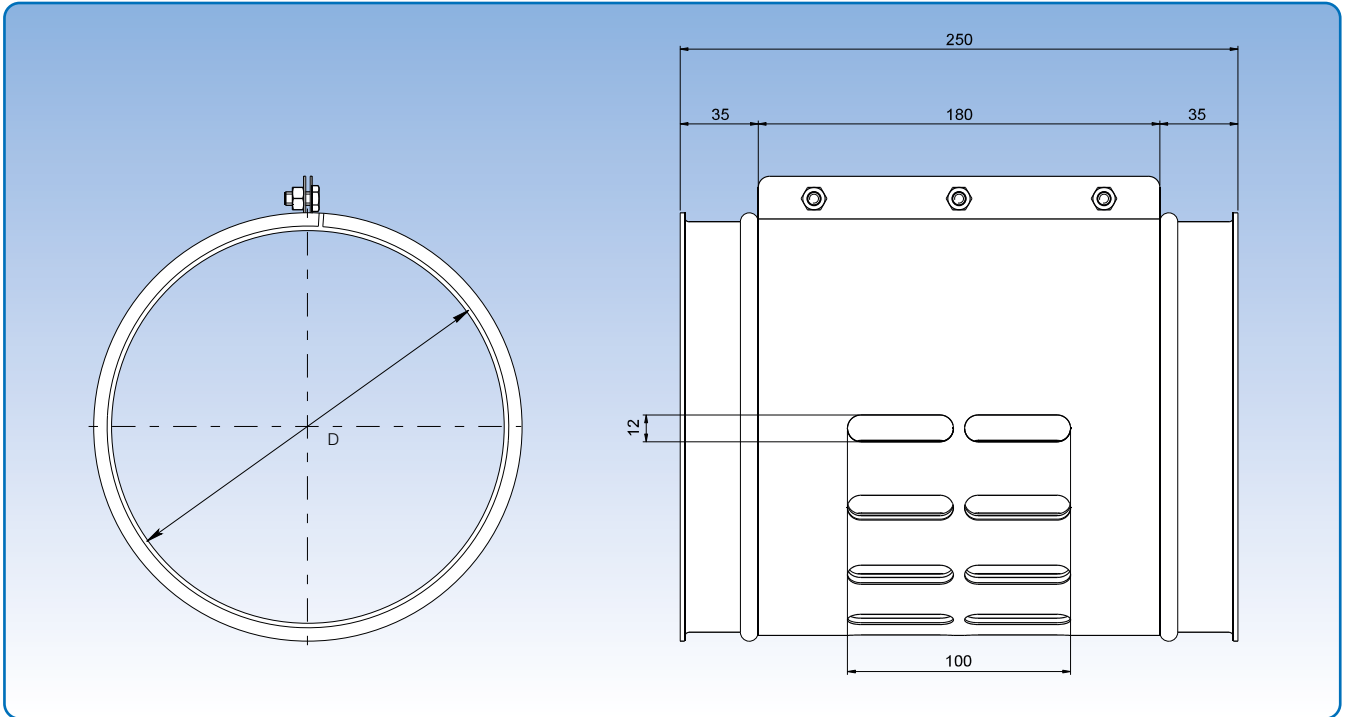
Damper is operated by an electric motor activated by a changeover switch.
Setting indicators showing damper position are available as an optional extra.
Electrical connection: 230 V AC - 50 Hz or 24 V DC.

Item no. (Man.)	Item no. (Pneu.)	Item no. (Elec.)	Dimensions		Weight (Man.) kg	Weight (Pneu.) kg	Weight (Elec.) kg
			D mm	L mm			
1501322	1501342	1501332	175	210	1,94	3,32	3,10
1501347	1501348	1501338	180	210	2,20	4,00	3,10
1501352	1501372	1501362	200	210	2,28	5,20	3,41
1501382	1501402	1501392	224	240	2,78	4,20	2,87
1501412	1501432	1501422	250	265	3,29	4,73	4,47
1501472	1501492	1501482	300	315	4,37	5,87	5,59
1501475	1501495	1501490	315	330	5,00	6,30	6,00
1501502	1501522	1501512	350	365	5,78	8,00	6,81
1501532	1501552	1501542	400	415	7,49	9,61	8,42
1501562	1501582	1501572	450	465	6,10	14,92	9,66
1501592	1501612	1501602	500	515	13,10	11,03	11,45
1501622			550	565	15,59		
1501652			600	615	19,41		
1501682			650	665	21,46		
1501712			700	715	24,29		
1501742			750	765	27,40		
1501772			800	815	32,05		

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: $\varnothing 80 - \varnothing 200$ mm.

False air valves are made of 0.80 mm sheet metal.

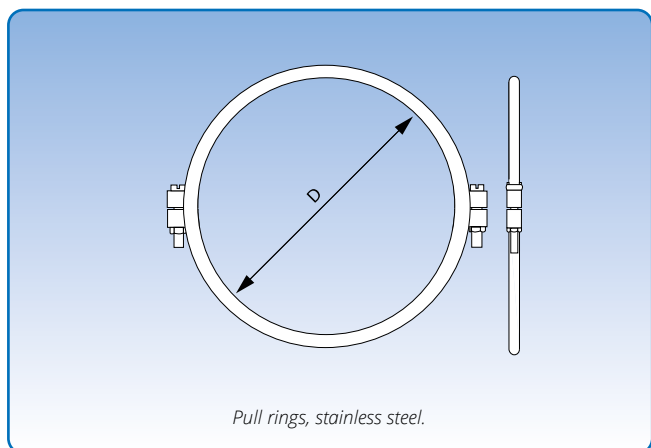
"False" air is regulated by turning the external button.

Item no.	Dimensions		Weight kg
	D mm		
4670903	80		0,75
4671903	100		0,95
4672903	120		1,10
4673903	125		1,15
4674903	140		1,25
4675903	150		1,40
4676903	160		1,75
4677903	175		1,90
4678003	180		2,00
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.

Pull rings, stainless steel

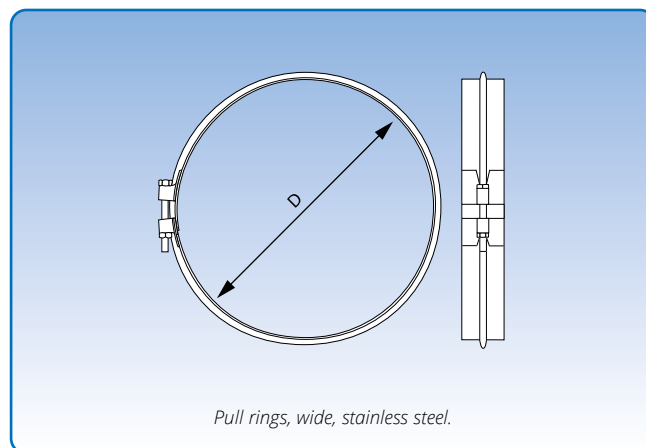


Diameter: $\varnothing 80 - \varnothing 400$ mm.

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

EPDM rubber rings are available as optional extras for sealing of diameter assemblies $\varnothing 80 - \varnothing 500$ mm.

Stainless steel pull rings [f.b] are supplied individually with nuts and bolts.



Diameter: $\varnothing 200 - \varnothing 800$ 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	0,08
1699910	100	0,08
1699912	120	0,08
1699913	125	0,08
1699914	140	0,08
1699915	150	0,80
1699916	160	0,08
1699918	175	0,33
1699919	180	0,33
1699920	200	0,33
1699922	225	0,33
1699925	250	0,33
1699927	275	0,33
1699930	300	0,33
1699932	315	0,33
1699935	350	0,33
1699940	400	0,33

Pull rings, wide, stainless steel		
Item no.	D mm	Weight / pcs. kg
1699956	200	0,35
1699959	225	0,33
1699960	250	0,36
1699962	275	0,38
1699964	300	0,40
1699966	315	0,43
1699970	350	0,48
1699974	400	0,53
1699976	450	0,58
1699978	500	0,63
1699980	550	0,68
1699982	600	0,71
1699984	630	0,73
1699986	650	0,78
1699988	700	0,83
1699990	750	0,88
1699992	800	0,88

Rubber gasket rings

Diameter: $\varnothing 80 - \varnothing 300$ mm.

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

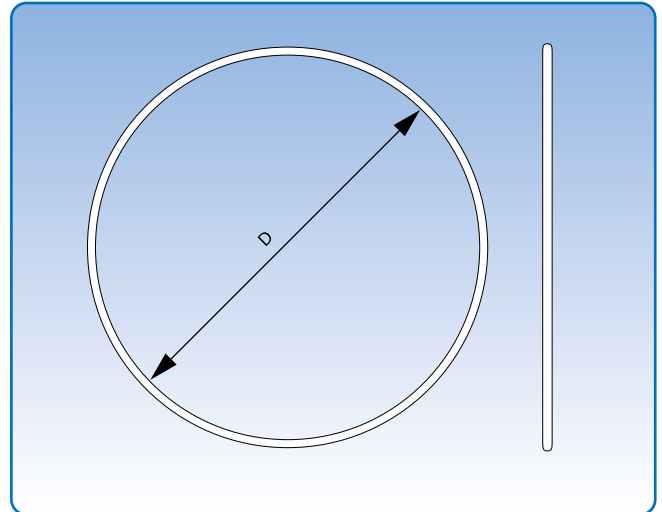
One rubber gasket ring is fitted for each assembly. Rubber gasket rings are fitted on either f.b. edge before assembly of ducting.

Rubber gasket rings are U-shaped in cross section. Hardness: 80 shore. Operating temperature range: -40°C to $+100^{\circ}\text{C}$.

Same dimensions of rubber gasket rings are available in NITRIL rubber.

Hardness: 80 shore. Operating temperature range: -15°C to $+80^{\circ}\text{C}$. 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.

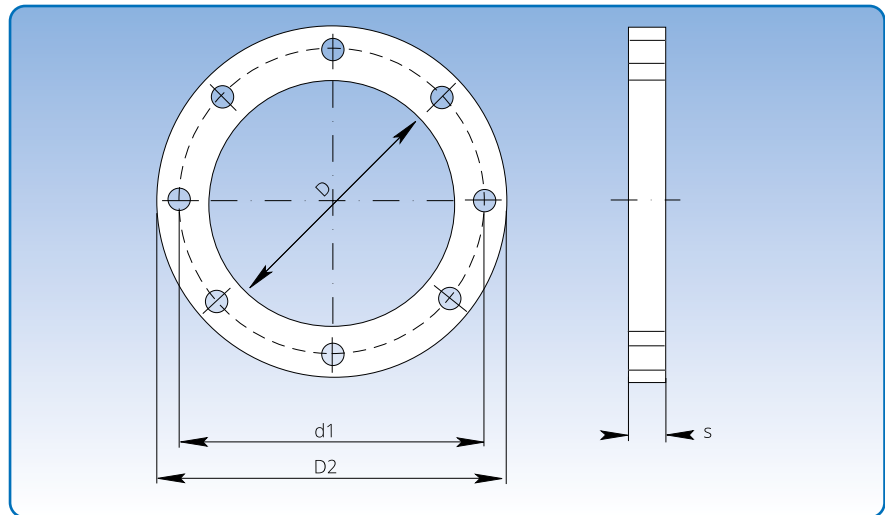
Item no.	Dimensions	
	D mm	Weight/10 pcs. kg
820170080	80	0,20
820170100	100	0,30
820170120	120	0,50
820170125	125	0,50
820170140	140	0,60
820170150	150	0,60
820170160	160	0,70
820170180	180	0,70
820170200	200	0,80
820170225	225	1,10
820170250	250	1,12
820170275	275	1,12
820170300	300	1,30

Flanges, stainless steel

Diameter: $\varnothing 80 - \varnothing 1000$ 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.

Item no.	Dimensions								
	Diameter nominal	D mm	d1 mm	D2 mm	s mm	Flang width mm	Hole size mm	Number of holes	Weight kg
1699508	80	85	115	135	3,00	25	10	8	0,22
1699510	100	105	135	155	3,00	25	10	8	0,26
1699512	120	125	155	175	3,00	25	10	8	0,27
1699513	125	130	160	180	3,00	25	10	8	0,30
1699514	140	143	175	193	3,00	25	10	8	0,42
1699515	150	155	185	205	5,00	25	10	8	0,45
1699516	160	165	195	215	5,00	25	10	8	0,50
1699518	175	180	210	225	5,00	25	10	8	0,52
1699519	180	185	215	235	5,00	25	10	8	0,54
1699520	200	205	235	255	5,00	25	10	12	0,60
1699522	225	230	260	280	5,00	25	10	12	0,66
1699525	250	255	285	305	5,00	25	10	12	0,72
1699527	275	280	310	330	5,00	25	10	12	0,78
1699530	300	305	336	355	5,00	25	10	12	0,82
1699532	315	320	351	370	5,00	25	10	12	1,37
1699535	350	355	389	415	5,00	30	12	12	1,36
1699540	400	405	439	465	6,00	30	12	16	1,85
1699545	450	455	489	515	6,00	30	12	16	2,05
1699550	500	505	540	565	6,00	30	12	16	2,28
1699555	550	555	590	615	6,00	30	12	16	2,51
1699560	600	605	640	665	6,00	30	12	16	2,73
1699563	630	635	670	695	6,00	30	12	24	2,83
1699565	650	655	690	715	6,00	30	12	24	2,89
1699570	700	705	750	785	6,00	40	12	24	4,26
1699575	750	755	800	835	6,00	40	12	24	4,56
1699580	800	805	850	885	6,00	40	12	24	4,85
1699585	850	855	900	935	6,00	40	12	24	5,15
1699590	900	905	950	985	6,00	40	12	24	5,43
1699595	950	955	1000	1035	6,00	40	12	24	5,73
1699600	1000	1005	1050	1085	6,00	40	12	24	6,02

Rubber flanges

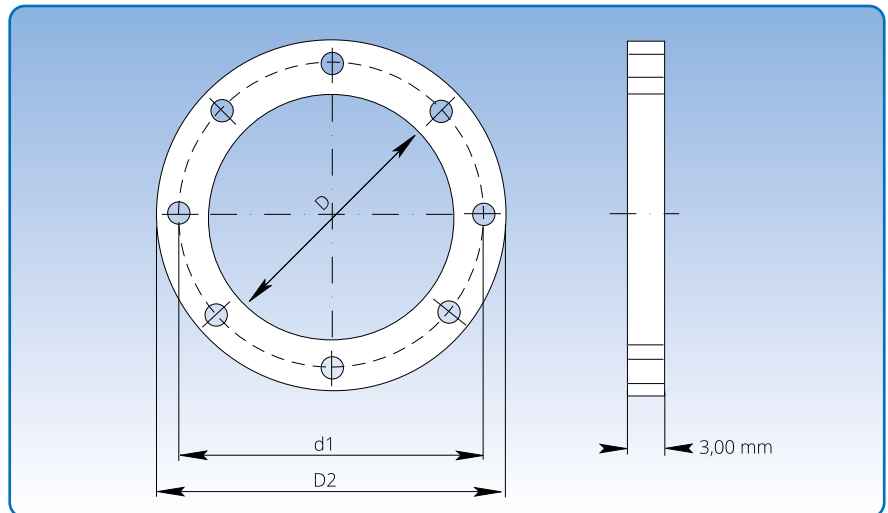
Diameter: $\varnothing 80 - \varnothing 400$ mm.

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 $+70^{\circ}\text{C}$.

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.

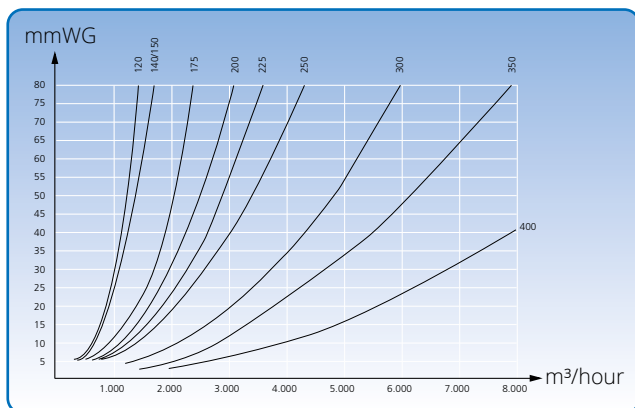
Dimensions								
Item no.	Diameter nominal	D mm	d1 mm	D2 mm	Flang width mm	Hole size mm	Number of holes	Weight kg
820150080	80	83	115	133	25	8	8	0,02
820150100	100	103	135	153	25	8	8	0,03
820150120	120	123	155	173	25	8	8	0,04
820150125	125	128	160	178	25	8	8	0,05
820150140	140	143	175	193	25	8	8	0,05
820150150	150	155	185	205	25	8	8	0,06
820150160	160	165	195	215	25	8	8	0,06
820150180	180	185	215	235	25	8	8	0,07
820150200	200	205	235	255	25	8	12	0,08
820150225	225	230	260	280	25	8	12	0,09
820150250	250	255	285	305	25	8	12	0,10
820150275	275	280	310	330	25	8	12	0,10
820150300	300	305	336	355	25	8	12	0,11
820150315	315	320	351	370	25	8	12	0,13
820150350	350	355	389	415	26	10	12	0,15
820150400	400	405	439	465	30	10	16	0,18
820150450	450	455	389	515	30	10	16	0,21
820150500	500	505	540	565	30	10	16	0,22
820150550	550	555	590	615	30	10	16	0,25
820150600	600	605	640	665	30	10	16	0,29
820150630	630	635	670	695	30	10	24	0,33
820150650	650	655	690	715	30	10	24	0,35
820150700	700	705	750	785	40	10	24	0,38
820150750	750	755	800	835	40	10	24	0,41
820150800	800	805	850	885	40	10	24	0,49
820150850	850	855	900	935	40	10	24	0,52
820150900	900	905	950	985	40	10	24	0,54
820150950	950	955	1000	1035	40	10	24	0,55
820151000	1000	1005	1050	1085	40	10	24	0,56

Jet caps, stainless steel

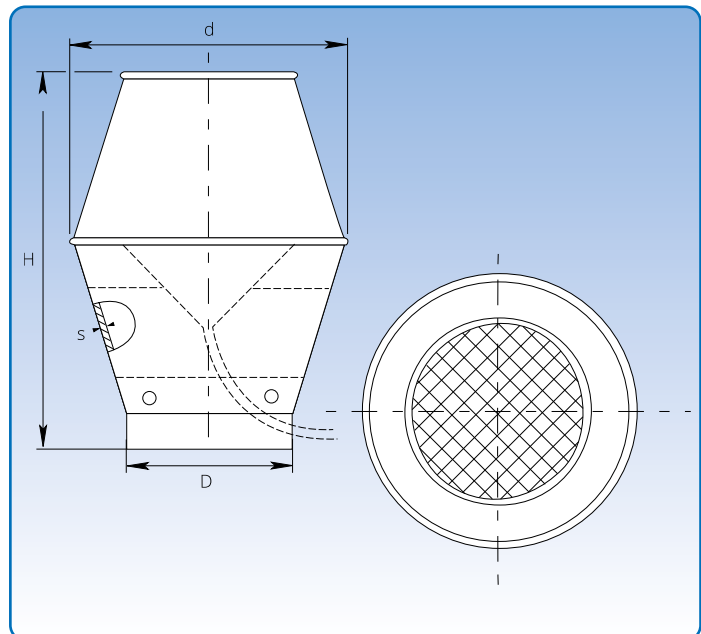
Diameter: $\varnothing 120 - \varnothing 400$ mm.

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.



Pressure loss curves for diameter $\varnothing 120 - \varnothing 400$ mm.



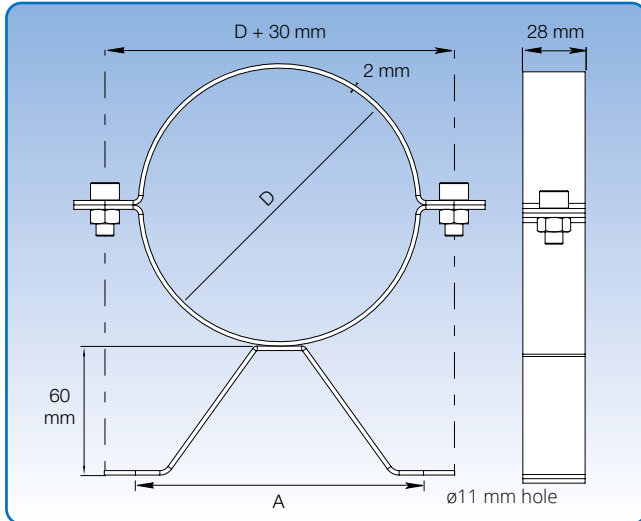
Dimensional specifications are given in the table below.

Item no.	Dimensions			Weight kg
	D mm	d mm	H mm	
1940120	120	185	325	3,00
1940130	125	195	340	3,50
1940140	140	215	365	3,80
1940150	150	230	390	4,00
1940160	160	245	410	5,00
1940180	175	275	445	5,40
1940190	180	305	490	4,00
1940200	200	345	535	4,80
1940220	225	380	590	5,70
1940250	250	420	640	9,00
1940300	300	460	690	8,00
1940315	315	480	720	8,70
1940350	350	535	785	10,70
1940400	400	610	885	13,50
1940450	450	690	985	16,70
1940500	500	765	1095	21,00
1940550	550	840	1200	28,00
1940600	600	915	1300	36,00
1940630	630	960	1360	40,00
1940650	650	990	1390	42,00
1940700	700	1070	1505	49,00
1940750	750	1145	1595	56,00
1940800	800	1220	1695	68,00
1940850	850	1295	1795	80,00
1940900	900	1375	1900	100,00
1940950	950	1450	1975	105,60
1941000	1000	1525	2000	150,00

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.

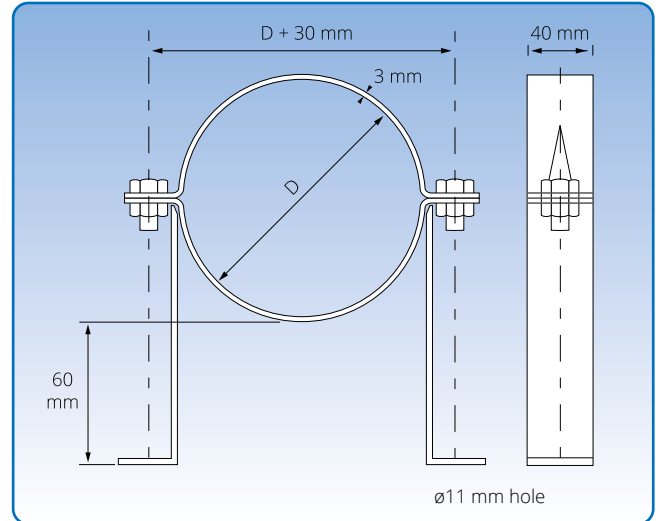
Clip bands, stainless steel



Diameter: $\varnothing 80 - \varnothing 300$ 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: $\varnothing 350 - \varnothing 400$ 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.

s = 2 mm			
Item no. without legs	D mm	A mm	Weight kg
4670285	80	132	0,20
4671285	100	132	0,21
4672285	120	132	0,25
4673285	125	132	0,27
4674285	140	132	0,28
4675285	150	132	0,29
4676285	160	132	0,31
4677285	175	210	0,33
4677290	180	210	0,34
4678285	200	210	0,36
4679285	224	210	0,39
4680285	250	210	0,43
4681285	300	210	0,50
4682285	315	210	0,62

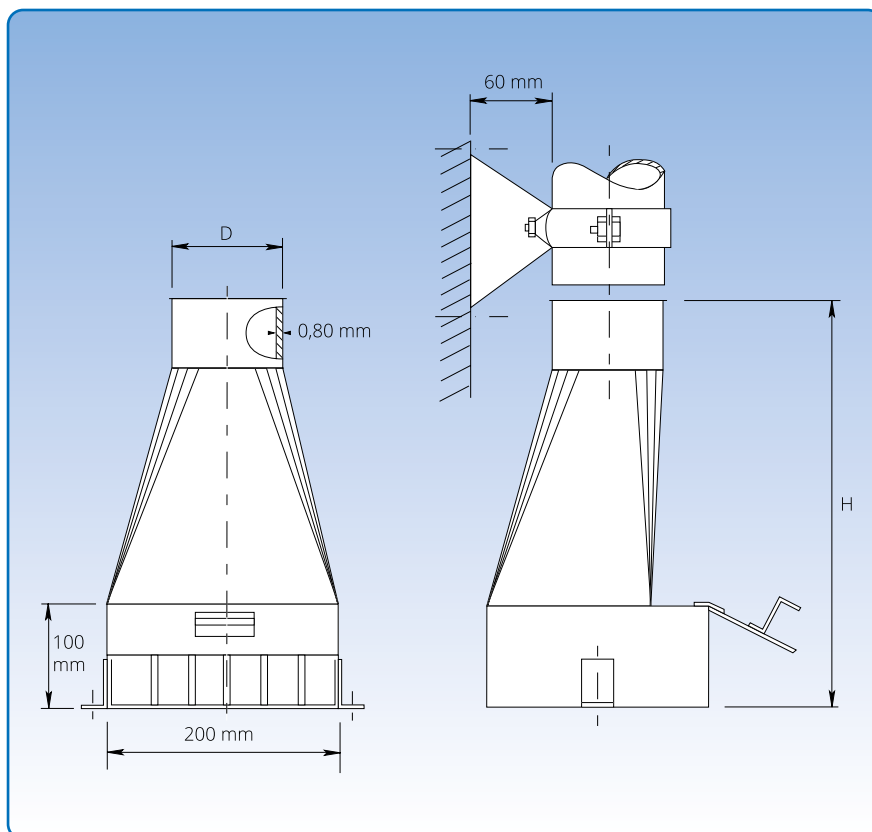
s = 3 mm			
Item no. without legs	D mm	A mm	Weight kg
4683285	350	399	1,15
4684285	400	679	1,30
4685285	450	499	2,01
4686285	500	549	2,27
4687285	550	599	2,33
4688285	600	649	2,42
4689285	630	679	2,51
4690285	650	699	3,64
4691285	700	749	3,88
4692285	750	799	4,09
4693285	800	849	4,31

Sweep ups, stainless steel

Diameter: $\varnothing 80$ - $\varnothing 200$ 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.

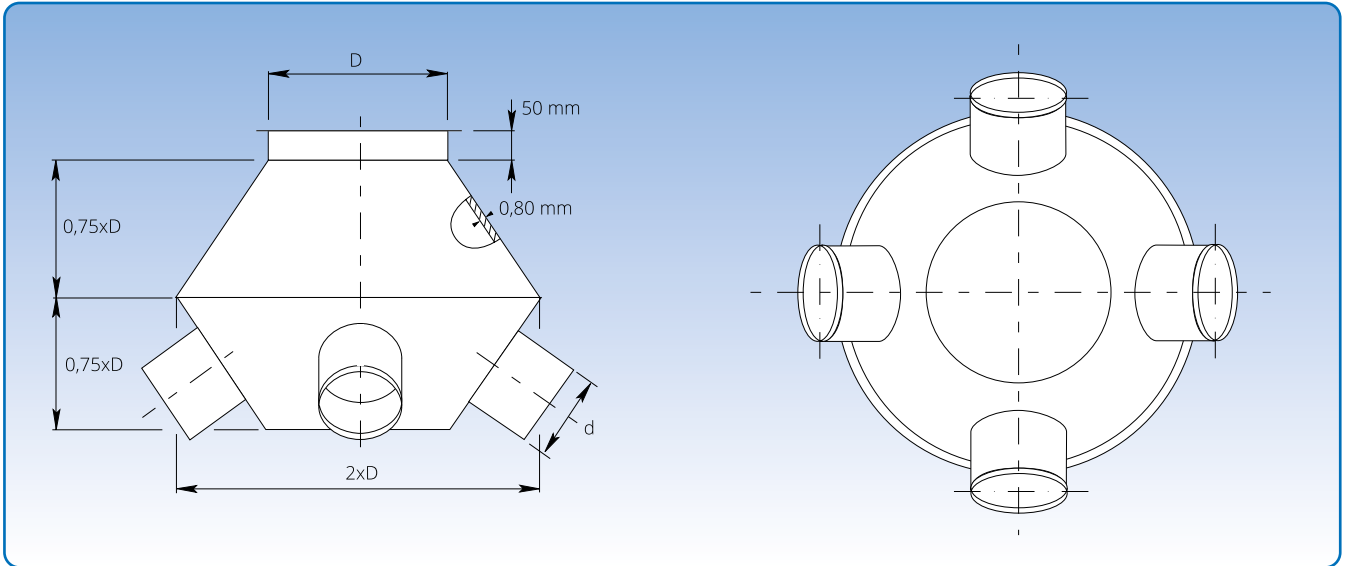


Dimensional specifications are given in the table below.

Item no. standard	Item no. with gate and grill	Dimensions		Weight kg standard	Weight kg with gate, no grill
		D mm	H mm		
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: $\varnothing 80 - \varnothing 400$ 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

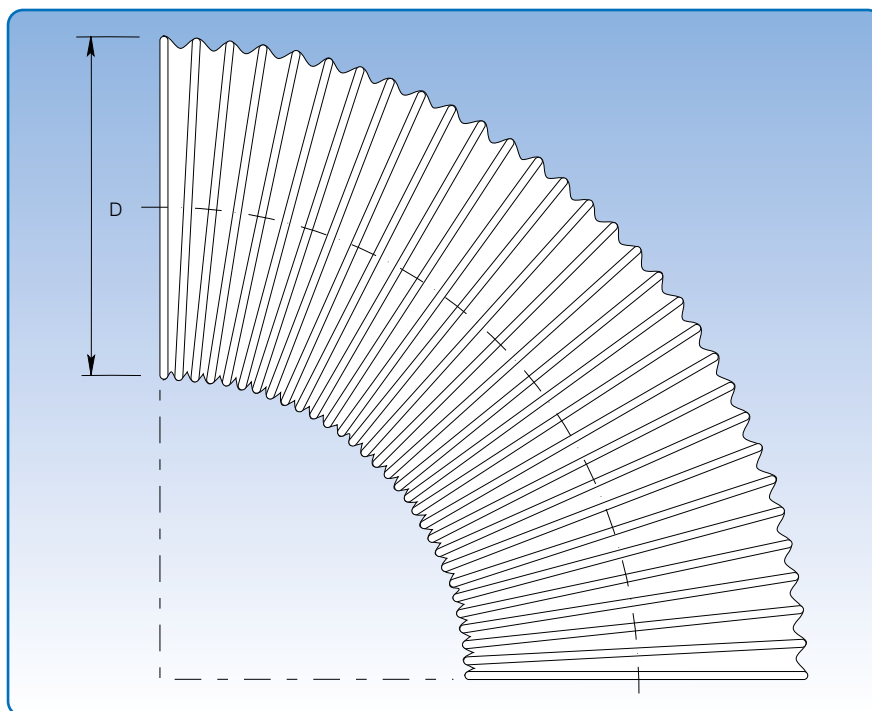
Diameter: $\varnothing 50 - \varnothing 450$ mm.

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 -40°C to $+90^{\circ}\text{C}$.

Purflex hoses are only available in the length of 5 m.



Dimensional specifications are given in the table below.

Item no.	Description	Dimensions		Weight kg / m
		D mm	Bending radius mm	
836505005	Hoses PUR 301 AS	50-51	33	0,280
836506005	Hoses PUR 301 AS	60	38	0,340
836506305	Hoses PUR 301 AS	63-65	40	0,360
836507005	Hoses PUR 301 AS	70	43	0,380
836508005	Hoses PUR 301 AS	80	48	0,440
836509005	Hoses PUR 301 AS	89-90	53	0,480
836510005	Hoses PUR 301 AS	100-102	58	0,510
836512005	Hoses PUR 301 AS	120	68	0,610
836512505	Hoses PUR 301 AS	125-127	71	0,630
836514005	Hoses PUR 301 AS	140	78	0,710
836515005	Hoses PUR 301 AS	150-152	83	0,760
836516005	Hoses PUR 301 AS	160	88	0,810
836518005	Hoses PUR 301 AS	178-180	98	0,900
836520005	Hoses PUR 301 AS	200-203	108	1,030
836522505	Hoses PUR 301 AS	225	122	1,160
836525005	Hoses PUR 301 AS	250	136	1,280
836528005	Hoses PUR 301 AS	280	149	1,430
836530005	Hoses PUR 301 AS	300	159	1,700
836531505	Hoses PUR 301 AS	315	167	1,790
836535005	Hoses PUR 301 AS	350	185	2,000
836540005	Hoses PUR 301 AS	400	210	2,260
836545005	Hoses PUR 301 AS	450	235	2,520
8365125051	Hoses PUR 330 AS	125-127	71	0,820
8365140051	Hoses PUR 330 AS	140	78	0,920
8365160051	Hoses PUR 330 AS	160	88	1,040
8365200051	Hoses PUR 330 AS	200-203	108	1,540



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