



Products Catalogue



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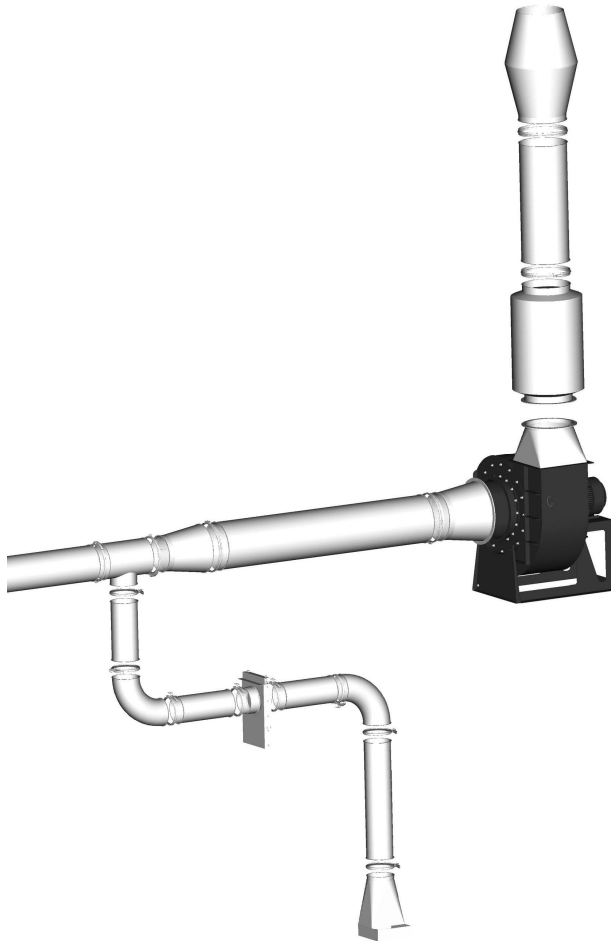
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Section: 00
Revised: 01.01.2016

Technical catalogue: Duct systems

Spring program comprises the galvanized duct system, the welded duct system in 2 and 3 mm plate and the JK-6" duct system that is specially designed for material transport.

The systems are made up of a wide program of ducts, bends, valves, diverters, transition pieces, jet and rain caps etc.

Spring duct systems are used within all extraction solutions for transporting particles and air.

This catalogue comprises all Spring standard components.

Special components are made to order.

Galvanized duct system

The galvanized duct system comprises all the components required for a complete extraction solution.

- laser welded ducts
- longitudinally lock formed ducts
- pressed bends
- tight sliding dampers
- tapers and transition pieces

The ducts are made from B500 quality sheet in sheet thickness 0,75 – 1,00 mm. The sheet is hot-galvanized with a zinc coating of minimum 275 g/m².

The measurements given of the galvanized duct system are internal measurements.

Galvanized components in special dimensions can be made to order

2 and 3 mm duct system

The 2 and 3 mm duct system comprises all the components required for a complete extraction solution.

- seam welded ducts
- pressed bends
- sliding dampers
- diverters – both pressed and welded
- tapers and transition pieces

The heavy plate thickness makes this duct system suitable for plants which, due to the type of particles they transport, are subjected to heavy wear.

The 2 and 3 mm duct system is made from the quality steel plate – Domex 240 – in plate thickness 2 and 3 mm.

The components are externally sandblasted in accordance with SA 2,5 and then primed with epoxy powder primer. The thickness of the coating is 50 – 60 my, and the primer consists of 70% zinc. The standard color is RAL 7032.



Laser welded and longitudinally lock formed duct system, galvanized



2 and 3 mm duct system

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Revised: 01.01.2016

Technical catalogue: Duct System

Alternatively the components can be supplied painted with polyester powder with a 60 – 80 μ m thick coating. The standard color of the polyester primer is RAL 5010.

The components can be made to order with a surface treatment, corrosion class 4, in accordance with DS 412. The measurements given for 2 and 3 mm are nominal measurements, that is to say that with regard to 2 mm the internal measurements are equal to the nominal measurements minus 1 mm, and with regard to 3 mm the internal measurements are equal to the nominal measurements minus 2 mm.

Operating temperature

Both standard duct systems can be used at temperatures of up to 80°C. Components with gaskets to withstand higher temperatures are made to order.



Density

Leaks in a duct system will result in loss of capacity and undesirable noise. Spring duct systems are made with small tolerances to ensure tight connections. The mounting of pull rings or rapid lock pull rings ensures that the duct line fulfils the requirements of density class C, which is the highest density class within industrial extraction.

With regard to the mounting of flanges, it is recommended to apply joint filler or rubber flanges (EPDM) to ensure tight connections. Correctly assembled, with joint filler or rubber flanges, the connections will fulfill the requirements of density class C.



Section: 01
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Technical catalogue: Duct System

Laser welded and longitudinally lockformed ducts, galvanized

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

Spring's laser welded and longitudinally lock formed

ducts are galvanized and made from 0,75 mm, 0,90 mm or 1,00 mm galvanized sheet (s).

The ducts are made to order in other qualities and dimensions.

Ducts with a diameter of up to $\varnothing 400$ mm are, as standard, supplied as laser welded ducts in

lengths of 0,5 m, 1,0 m and 2,0 m. Ducts with a

diameter of $\varnothing 450$ mm are supplied lock formed

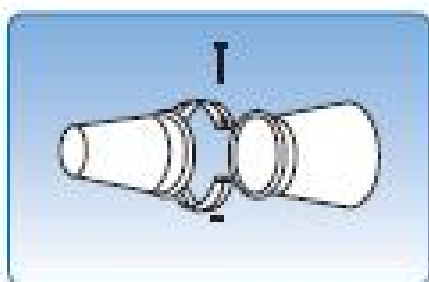
in standard lengths of 0,5 m, 1,0 m and 2,0 m.

Ducts with dimensions other than those specified

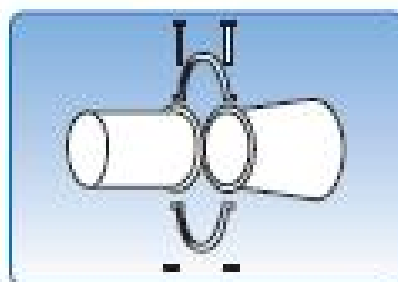
in the table are always supplied lock formed.

Laser welded

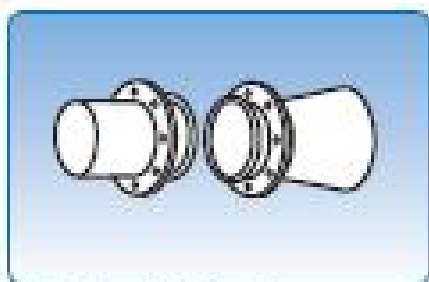
Assembly method available



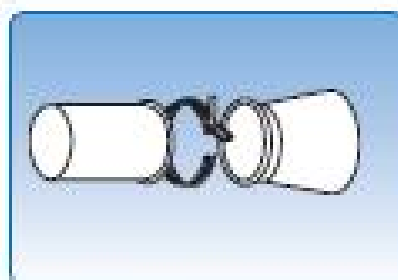
For wide pull rings (type bb)



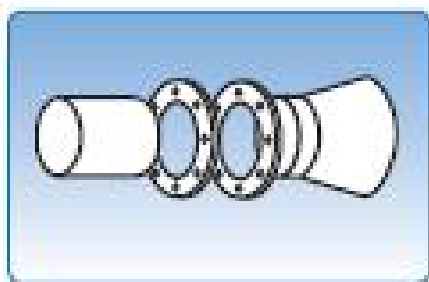
For pull rings (type b)



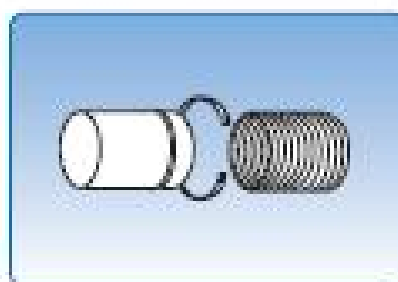
With base flange fitted (type b.m.v)



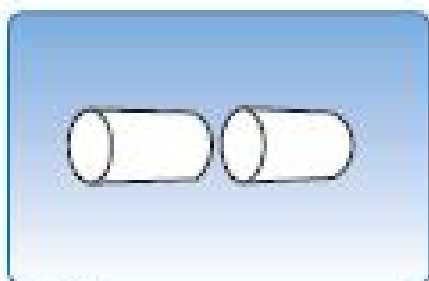
For rapid lock pull rings (type j)



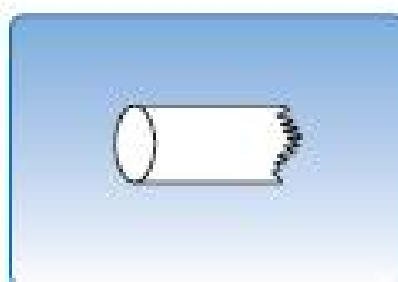
For flanges (type f)



For hoses (type s)



Conical (type c)



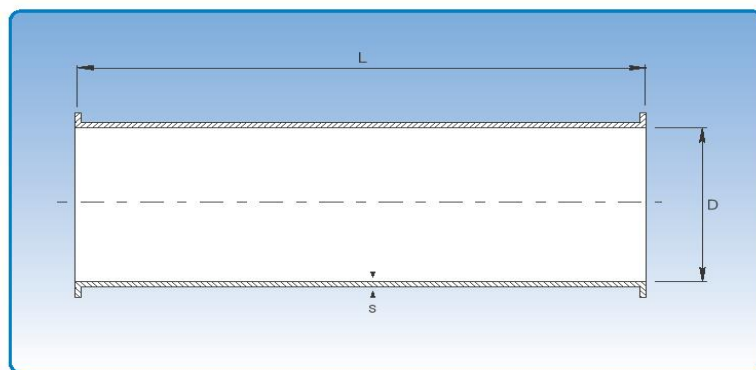
Smooth (type g)

Laser welded and longitudinally lock formed ducts, galvanized (Diameter: $\varnothing 80 - \varnothing 1000$ mm.)

Laser welded and longitudinally lock formed ducts are galvanized and made from 0,75 mm, 0,90 mm or 1,00 mm galvanized sheet (s). The ducts are made to order in other qualities and dimensions.

Ducts with a diameter of up to $\varnothing 400$ mm are, as standard, supplied as laser welded ducts in lengths of 0,5 m, 1,0 m and 2,0 m. Ducts with a diameter of $\varnothing 450$ mm are supplied lock formed in standard lengths of 0,5 m, 1,0 m and 2,0 m.

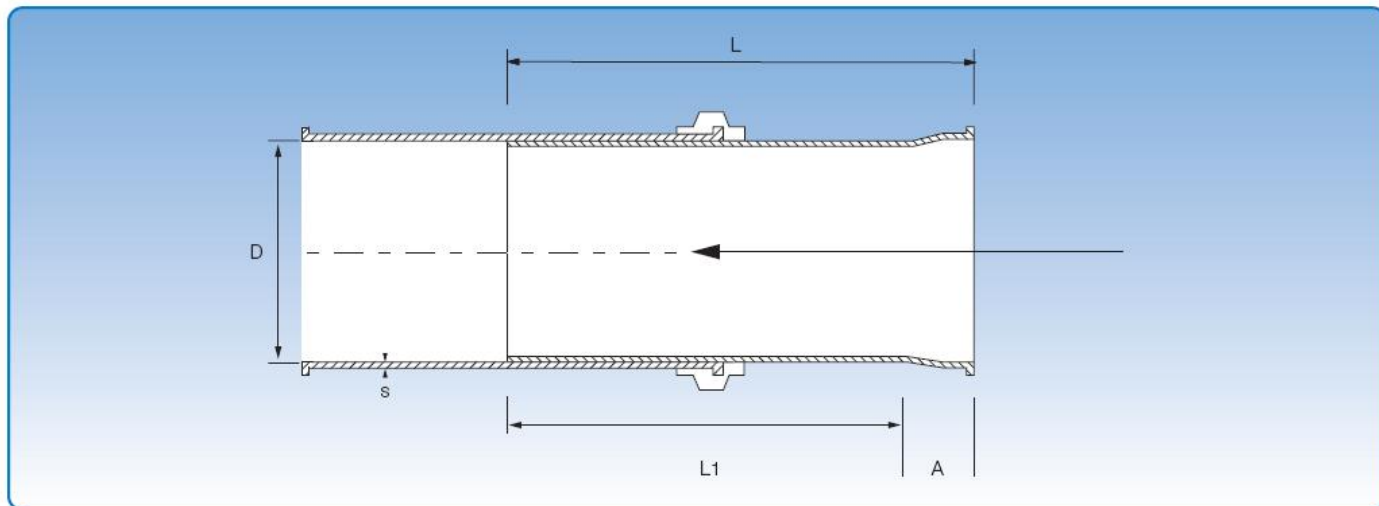
Ducts with dimensions other than those specified in the table are always supplied lock formed.



Dimensional specifications are given in the table below.

Dimensional specifications				
D mm	s mm	Weight L = 0,5 m kg	Weight L = 1,0 m kg	Weight L = 2,0 m kg
Laser welded				
80	0.75	0.80	1.60	3.20
100	0.75	1.00	2.00	4.00
120	0.75	1.20	2.40	4.80
125	0.75	1.25	2.50	5.00
140	0.75	1.40	2.80	5.60
150	0.75	1.50	3.00	6.00
160	0.75	1.60	3.20	6.40
180	0.75	1.75	3.50	7.00
200	0.75	2.00	4.00	8.00
225	0.75	2.25	4.50	9.00
250	0.75	2.50	5.00	10.00
275	0.75	2.75	5.50	11.00
300	0.75	2.85	5.70	11.40
315	0.75	3.00	6.00	12.00
350	0.75	3.25	6.50	13.00
400	0.90	4.50	9.00	18.00
Lock formed				
450	0.90	5.15	10.30	20.60
500	0.90	5.70	11.40	22.80
550	0.90	6.25	12.50	25.00
600	0.90	6.80	13.60	27.20
630	0.90	7.20	14.40	28.80
650	0.90	7.50	15.00	30.00
700	0.90	8.00	16.00	32.00
750	0.90	8.50	17.00	34.00
800	1.00	10.00	20.00	40.00
850	1.00	10.75	21.50	43.00
900	1.00	11.50	23.00	46.00
950	1.00	12.25	24.50	49.00
1000	1.00	13.00	26.00	52.00

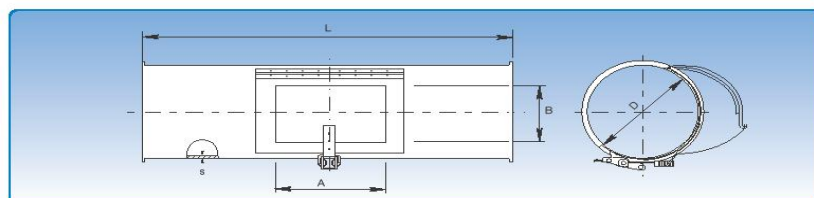
Telescopic ducts, galvanised



Dimensional specifications are given in the table below.

Dimensional specifications					
D mm	s mm	L mm	A mm	L1 mm	Weight kg
100	0.9	500	50	450	0.9
120	0.9	500	50	450	1.1
125	0.9	500	50	450	1.2
140	0.9	500	50	450	1.3
150	0.9	500	50	450	1.4
160	0.9	500	50	450	1.5
180	0.9	500	50	450	1.7
200	0.9	500	50	450	1.9
225	0.9	500	50	450	2.1
250	0.9	500	50	450	2.3
275	0.9	500	50	450	2.5
300	0.9	500	50	450	2.8

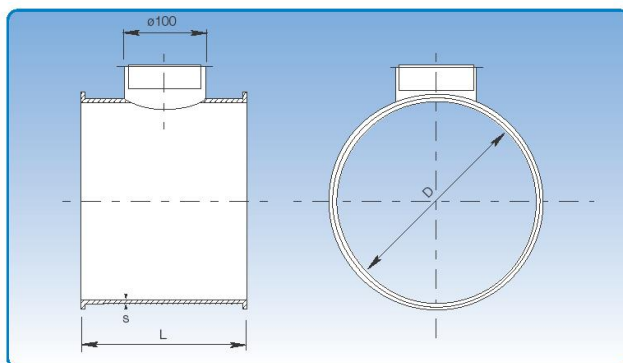
Ducts with access door, galvanised



Dimensional specifications are given in the table below.

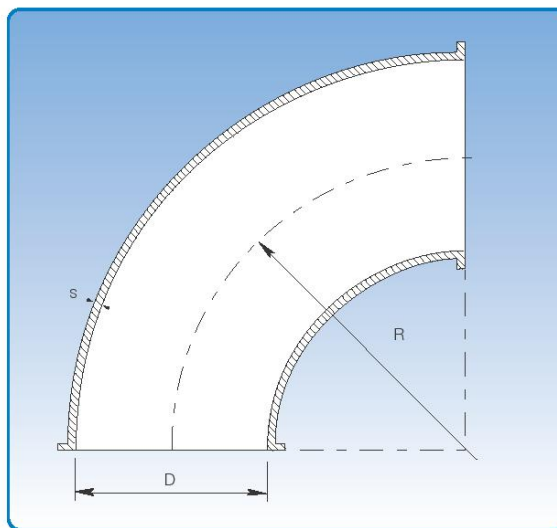
Dimensional specifications				
D mm	s mm	A mm	B x A	Weight kg
80	0.90	500	80 x 150	0.80
100	0.90	500	100 x 150	1.00
120	0.90	500	100 x 150	1.20
125	0.90	500	100 x 150	1.25
140	0.90	500	100 x 150	1.40
150	0.90	500	100 x 150	1.50
160	0.90	500	100 x 150	1.60
180	0.90	500	100 x 150	1.75
200	0.90	500	100 x 150	2.00
225	0.90	500	100 x 150	2.25
250	0.90	500	100 x 150	2.50
300	0.90	500	100 x 150	2.85
315	0.90	500	100 x 150	3.00
350	0.90	500	150 x 200	3.25
400	0.90	500	150 x 200	4.50
450	0.90	500	150 x 200	5.15
500	0.90	500	150 x 200	5.70
550	0.90	500	150 x 200	6.25
600	0.90	500	150 x 200	6.80
630	0.90	500	150 x 200	7.20
650	0.90	500	150 x 200	7.50
700	0.90	500	150 x 200	8.00
750	0.90	500	150 x 200	8.50
800	1.00	500	150 x 200	10.00
850	1.00	500	150 x 200	10.75
900	1.00	500	150 x 200	11.50
950	1.00	500	150 x 200	12.25
1000	1.00	500	150 x 200	13.00

Ducts with cleaning spigot, galvanised



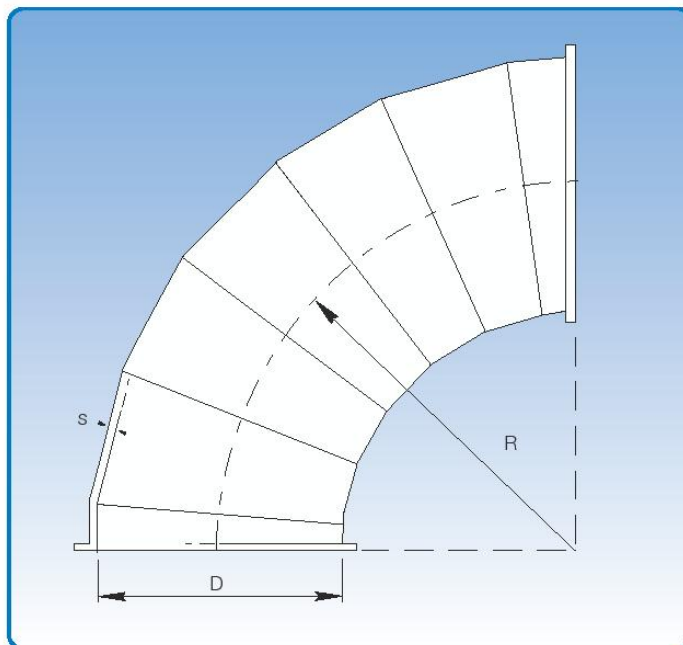
Dimensional specifications			
D mm	s mm	L mm	Weight kg
100	0.90	250	1.00
120	0.90	250	1.20
125	0.90	250	1.25
140	0.90	250	1.40
150	0.90	250	1.50
160	0.90	250	1.60
180	0.90	250	1.75
200	0.90	250	2.00
225	0.90	250	2.25
250	0.90	250	2.50
300	0.90	250	2.85
315	0.90	250	3.00
350	0.90	250	3.25
400	0.90	250	4.50
450	0.90	250	5.15
500	0.90	250	5.70
550	0.90	250	6.25
600	0.90	250	6.80
630	0.90	250	7.20
650	0.90	250	7.50
700	0.90	250	8.00
750	0.90	250	8.50
800	1.00	250	10.00
850	1.00	250	10.75
900	1.00	250	11.50
950	1.00	250	12.25
1000	1.00	250	13.00

Pressed bends, galvanised



Dimensional specifications							
D mm	s mm	Weight 90° kg	Weight 60° kg	Weight 45° kg	Weight 30° kg	Weight 15° kg	Weight 7,5° kg
80	1.00	0.40	0.30	0.20	0.15	0.08	0.05
100	1.00	0.50	0.40	0.25	0.20	0.10	0.08
120	1.00	0.80	0.60	0.40	0.30	0.15	0.10
125	1.00	0.90	0.65	0.45	0.35	0.17	0.12
140	1.00	1.10	0.80	0.55	0.40	0.20	0.15
150	1.00	1.20	0.90	0.60	0.50	0.25	0.20
160	1.00	1.50	1.20	0.75	0.60	0.30	0.25
180	1.00	2.00	1.50	1.00	0.80	0.40	0.30
200	1.00	2.50	1.85	1.25	1.00	0.50	0.35
225	1.00	3.20	2.40	1.60	1.20	0.60	0.37
250	1.00	4.00	3.00	2.00	1.50	0.75	0.40
275	1.00	4.80	3.60	2.40	1.80	0.90	0.43
300	1.00	5.50	4.10	2.75	2.05	1.00	0.50
315	1.00	5.90	4.50	2.95	2.25	1.12	0.55
350	1.00	6.80	5.10	3.40	2.55	1.30	0.65
400	1.00	9.50	7.10	4.75	3.60	1.80	0.90

Segment bends, galvanised

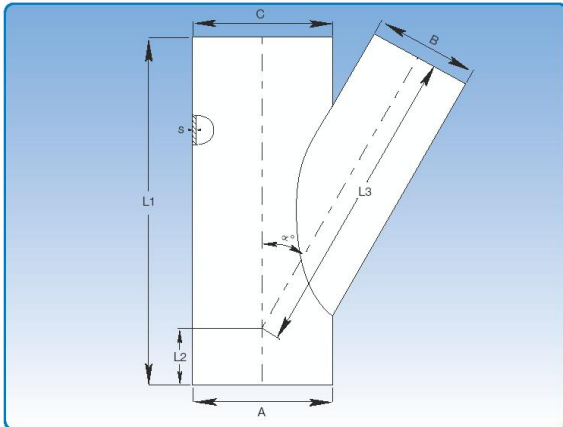


Dimensional specifications

D mm	s mm	Weight 90° kg	Weight 60° kg	Weight 45° kg	Weight 30° kg	Weight 15° kg	Weight 7,5° kg
450	0.90	12.00	9.00	6.00	4.50	2.25	1.10
500	0.90	15.00	11.20	7.50	5.60	2.80	1.40
550	0.90	18.00	13.50	9.00	6.80	3.40	1.70
600	0.90	21.50	16.10	10.75	8.05	4.00	2.00
630	0.90	22.40	16.80	11.20	8.40	4.20	2.10
650	0.90	25.00	18.80	12.50	9.40	4.70	2.35
700	0.90	29.00	21.80	14.50	10.90	5.40	2.70
750	0.90	33.00	24.80	16.50	12.40	6.20	3.10
800	1.00	37.50	28.10	18.75	14.05	7.00	3.50
850	1.00	42.50	32.00	21.25	16.00	8.00	4.00
900	1.00	48.00	36.00	24.00	18.00	9.00	4.50
950	1.00	53.00	39.80	26.50	20.00	10.00	5.00
1000	1.00	59.00	44.00	29.50	22.00	11.00	5.50



30° straight branch pieces, galvanised



Calculation:

L1 = See table

$$L2 = \frac{1}{2} \left(L1 - \frac{A}{\tan 30^\circ} \right)$$

$$L3 = \frac{L1 - L2}{\cos 30^\circ} - \left(\frac{B}{2} \times \tan 30^\circ \right)$$

Example:

A = 650, B = 650, C = 400

L1 = 1050 mm

$$L2 = 0,5 \left(1050 - \frac{650}{\tan 29,7^\circ} \right) = 0,5 \cdot (1050 - 1139,57)$$

L2 = 90,07 ~ 90 mm

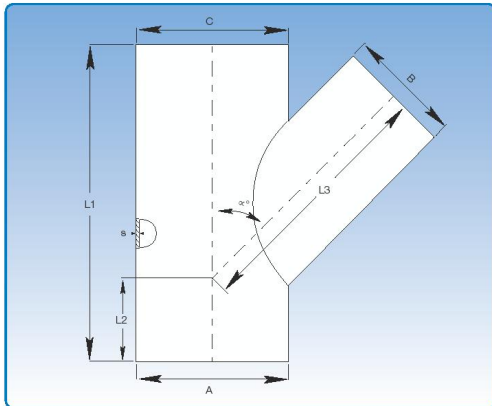
$$L3 = \frac{1050 - 90}{\cos 29,7^\circ} - \left(\frac{650}{2} \times \tan 29,7^\circ \right) = 1105,19 - 185,38$$

L3 = 919,81 ~ 920 mm

Dimensional specifications

			L2 mm	L3 mm A=C	° B mm	s mm L1 mm
Choose (100 - 1000)	80	350	Calculated			
	100	350				
	120	350				
	125	400				
	140	450				
	150	450				
	160	450				
	180	550				
	200	550				
	225	600				
	250	750				
	275	750				
	300	750				
	315	850				
	350	950				
	400	1050				
	450	1250				
	500	1250				
	550	1250				
	600	1450				
	630	1650				
	650	1650				
	700	1650				
	750	1850				
	800	1850				
	850	2050				
	900	2050				

45° straight branch pieces, galvanised



Calculation:

L1 = See table

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

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

Example:

A = 500, B = 500, C = 450

L1 = 950 mm

$$L2 = 0,5 \cdot \left(950 - \frac{500}{\tan 44,7} \right) = 0,5 \cdot (950 - 505,26)$$

$$L2 = -444,24 \rightarrow -444 \text{ mm}$$

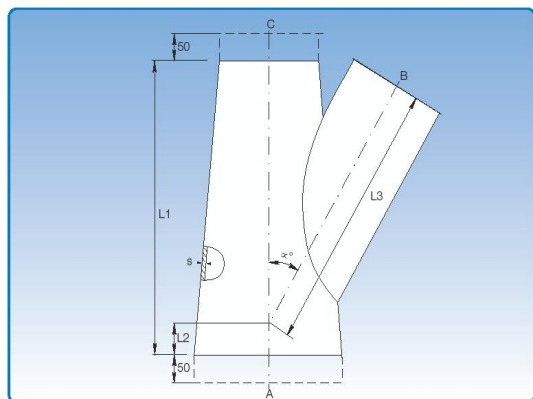
$$L3 = \frac{950 + 444}{\cos 44,7} - \left(\frac{500}{2} \times \tan 44,7 \right) = 1961,17 - 247,40$$

$$L3 = 1713,77 \rightarrow 1714 \text{ mm}$$

Dimensional specifications

A=C mm	B mm	L1 mm	L2 mm	L3 mm	°	s mm
Choose (100 - 1000)	80	300	Calculated	Calculated	43.8	0.9
	100	300			43.8	0.9
	120	350			44.0	0.9
	125	350			44.0	0.9
	140	350			44.1	0.9
	150	400			44.2	0.9
	160	400			44.2	0.9
	180	400			44.3	0.9
	200	450			44.4	0.9
	225	500			44.5	0.9
	250	500			44.5	0.9
	275	600			44.6	0.9
	300	600			44.6	0.9
	315	600			44.6	0.9
	350	700			44.7	0.9
	400	800			44.7	0.9
	450	950			44.7	0.9
	500	1050			44.8	0.9
	550	1150			44.8	0.9
	600	1150			44.8	0.9
	630	1150			44.8	0.9
	650	1150			44.8	0.9
	700	1300			44.8	0.9
	750	1300			44.8	0.9
	800	1450			44.8	0.9
	850	1450			44.9	0.9
	900	1650			44.9	0.9

30° conical branch pieces, galvanised



Calculation of L1, L2 and L3:

L1 = See table

$$L2 = \left(\frac{L1}{2} \right) - \left(\frac{A+C}{4 \tan \alpha^\circ} \right)$$

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

Example:

A = 500, B = 300, C = 350

L1 = 600 mm

$$L2 = \frac{600}{2} - \left(\frac{500+350}{4 \times \tan 44,6} \right) = 300 - 215,49$$

L2 = 84,51 ~ 85 mm

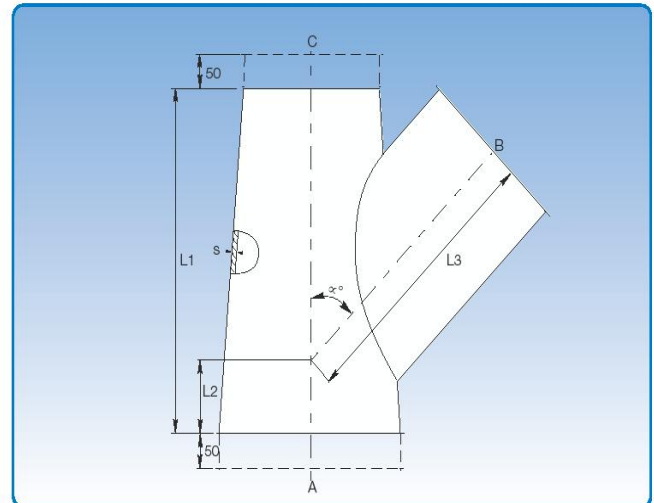
$$L3 = \frac{600 - 85}{\cos 44,6} - \left(\frac{300}{2} \times \tan 44,6 \right) = 723,29 - 147,92$$

L3 = 575,37 ~ 575 mm

Dimensional specifications							
A mm	B mm	C mm	L1 mm	L2 mm	L3 mm	°	s mm
Choose (100 - 1000)	80	Choose (100 - 1000)	350	Calculated	Calculated	28.0	0.9
	100		350			28.8	0.9
	120		350			28.8	0.9
	125		400			29.0	0.9
	140		450			29.1	0.9
	150		450			29.2	0.9
	160		450			29.2	0.9
	180		550			29.3	0.9
	200		550			29.3	0.9
	225		600			29.4	0.9
	250		750			29.5	0.9
	275		750			29.6	0.9
	300		750			29.6	0.9
	315		850			29.6	0.9
	350		950			29.6	0.9
	400		1050			29.7	0.9
	450		1250			29.7	0.9
	500		1250			29.7	0.9
	550		1250			29.8	0.9
	600		1450			29.8	0.9
	650		1650			29.8	0.9
	700		1650			29.8	0.9
	750		1850			29.8	0.9
	800		1850			29.9	0.9
	850		2050			29.9	0.9
	900		2050			29.9	0.9

45° conical branch pieces, galvanised

Dimensional specifications							
A mm	B mm	C mm	L1 mm	L2 mm	L3 mm	°	s mm
Choose (100 - 1000)	80	Choose (100 - 1000)	300	Calculated	Calculated	43.8	0.9
	100		300			43.8	0.9
	120		350			44.0	0.9
	125		350			44.0	0.9
	140		350			44.1	0.9
	150		400			44.2	0.9
	160		400			44.2	0.9
	180		400			44.3	0.9
	200		450			44.4	0.9
	225		500			44.5	0.9
	250		500			44.5	0.9
	275		600			44.6	0.9
	300		600			44.6	0.9
	315		600			44.6	0.9
	350		700			44.7	0.9
	400		800			44.7	0.9
	450		950			44.7	0.9
	500		1050			44.8	0.9
	550		1150			44.8	0.9
	600		1150			44.8	0.9
	630		1150			44.8	0.9
	650		1150			44.8	0.9
	700		1300			44.8	0.9
	750		1300			44.8	0.9
	800		1450			44.9	0.9
	850		1450			44.9	0.9
	900		1650			44.9	0.9



Calculation of L1, L2 and L3:

L1 = See table

$$L2 = \left(\frac{L1}{2} \right) - \left(\frac{A+C}{4 \times \tan \alpha^\circ} \right)$$

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

Example:

A = 500, B = 300, C = 350

L1 = 600 mm

$$L2 = \frac{600}{2} - \left(\frac{500 + 350}{4 \times \tan 44,6} \right) = 300 - 215,49$$

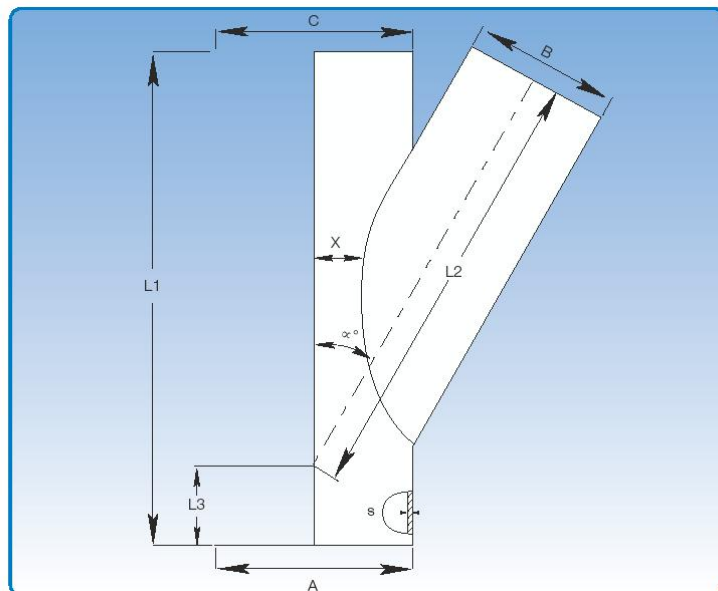
L2 = 84,51 ~ 85 mm

$$L3 = \frac{600 - 85}{\cos 44,6} - \left(\frac{300}{2} \times \tan 44,6 \right) = 723,29 - 147,92$$

L3 = 575,37 ~ 575 mm

30° branch plates, galvanised

Dimensional specifications							
A mm	B mm	C mm	L1 mm	L2 mm	L3 mm	°	s mm
Choose (100 - 1000)	80	Choose (100 - 1000)	300	Calculated	Calculated	43.8	0.9
	100		300			43.8	0.9
	120		350			44.0	0.9
	125		350			44.0	0.9
	140		350			44.1	0.9
	150		400			44.2	0.9
	160		400			44.2	0.9
	180		400			44.3	0.9
	200		450			44.4	0.9
	225		500			44.5	0.9
	250		500			44.5	0.9
	275		600			44.6	0.9
	300		600			44.6	0.9
	315		600			44.6	0.9
	350		700			44.7	0.9
	400		800			44.7	0.9
	450		950			44.7	0.9
	500		1050			44.8	0.9
	550		1150			44.8	0.9
	600		1150			44.8	0.9
	630		1150			44.8	0.9
	650		1150			44.8	0.9
	700		1300			44.8	0.9
	750		1300			44.8	0.9
	800		1450			44.9	0.9
	850		1450			44.9	0.9
	900		1650			44.9	0.9



Calculation:

L1 = See table

$$L2 = \frac{1}{2} - \left(L1 - \frac{A}{\tan 30^\circ} \right)$$

$$L3 = \frac{L1 - L2}{\cos 30^\circ} - \left(\frac{B}{2} \times \tan 30^\circ \right)$$

Example:

A = 700, B = 350, C = 700

L1 = 950 mm

$$L2 = 0,5 - \left(950 - \frac{700}{\tan 29,6} \right) = 0,5 - (950 - 1332,22)$$

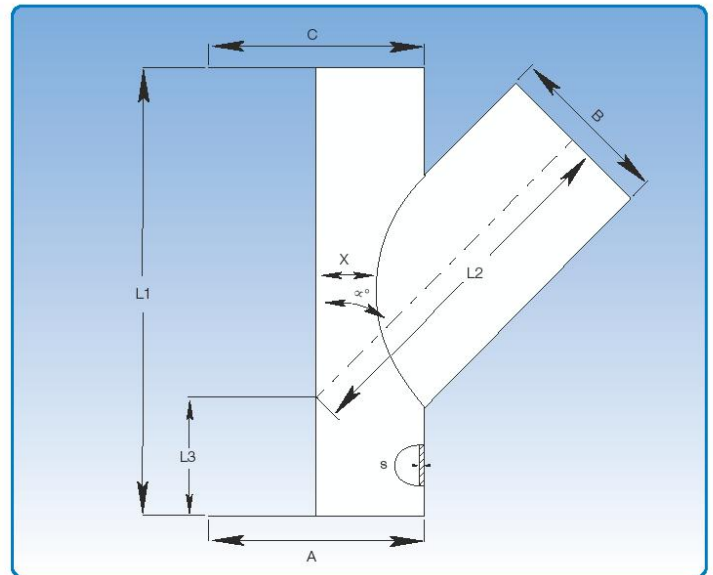
L2 = 382,72 ~ 383 mm

$$L3 = \frac{950 - 383}{\cos 29,6} - \left(\frac{350}{2} \times \tan 29,6 \right) = 652,10 - 99,41$$

L3 = 552,69 ~ 553 mm

45° branch plates, galvanised

Dimensional specifications							
A mm	B mm	C mm	L1 mm	L2 mm	L3 mm	°	s mm
Choose (100 - 1000)	80	Choose (100 - 1000)	300	Calculated	Calculated	43.8	0.9
	100		300			43.8	0.9
	120		350			44.0	0.9
	125		350			44.0	0.9
	140		350			44.1	0.9
	150		400			44.2	0.9
	160		400			44.2	0.9
	180		400			44.3	0.9
	200		450			44.4	0.9
	225		500			44.5	0.9
	250		500			44.5	0.9
	275		600			44.6	0.9
	300		600			44.6	0.9
	315		600			44.6	0.9
	350		700			44.7	0.9
	400		800			44.7	0.9
	450		950			44.7	0.9
	500		1050			44.8	0.9
	550		1150			44.8	0.9
	600		1250			44.8	0.9
	650		1150			44.8	0.9
	700		1300			44.8	0.9
	750		1300			44.8	0.9
	800		1450			44.8	0.9
	850		1450			44.9	0.9
	900		1650			44.9	0.9



Calculation:

L1 = See table

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

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

Example:

A = 550, B = 500, C = 550

L1 = 1050 mm

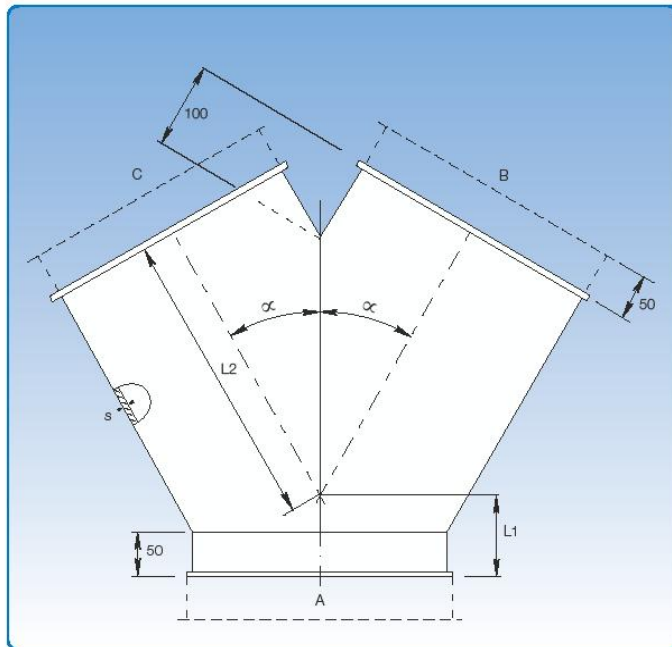
$$L2 = 0,5 - \left(1050 - \frac{550}{\tan 44,8} \right) = 0,5 - (1050 - 553,85)$$

L2 = - 495,65 ~ - 496 mm

$$L3 = \frac{1050 - 496}{\cos 44,8} - \left(\frac{500}{2} \times \tan 44,8 \right) = 2178,78 - 248,26$$

L3 = 1930,78 ~ 1931 mm

30° and 45° trouser pieces, galvanized



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

Calculation of L1 and L2 for $2 \times 30^\circ$:

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

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

Example:

$$A = B = C = 200$$

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

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

Calculation of L1 and L2 for $2 \times 45^\circ$:

$$L1 = (A \times 0,207) + 50$$

$$L2 = (B \times 0,5) + 100$$

Example:

$$A = B = C = 200$$

$$L1 = (200 \times 0,207) + 50 = 91,4$$

$$L2 = (200 \times 0,5) + 100 = 200$$

With conical trouser pieces where $A > B$, $A < C$ and $B = C$, L1 and L2 must be stated.

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

Galvanized trouser pieces are made from 0,90 mm galvanized sheet (s).

When placing an order, the measurements for A, B and C must be stated.

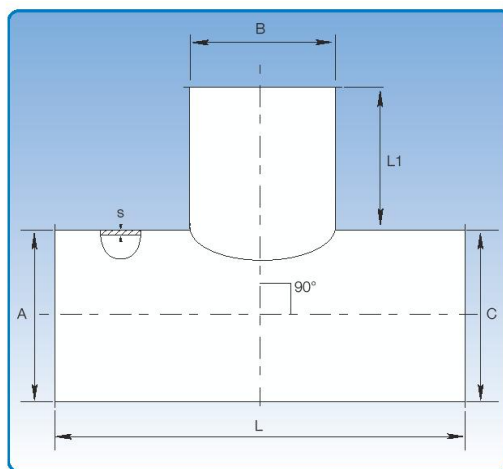
The legs of the trouser piece (B and C) are increased by 50 mm when assembling with wide pull rings [f.bb], rapid lock pull rings [f.lyn] and flanges [m.fl].

The trouser pieces are made to order in other degrees and qualities.

The following apply to galvanized trouser pieces:

$A > B$ and $A < C$. When $C \neq B$ it is the largest value of B and C that must be applied in the calculation.

90° T-pieces, galvanised



Dimensional specifications are given in the table below.

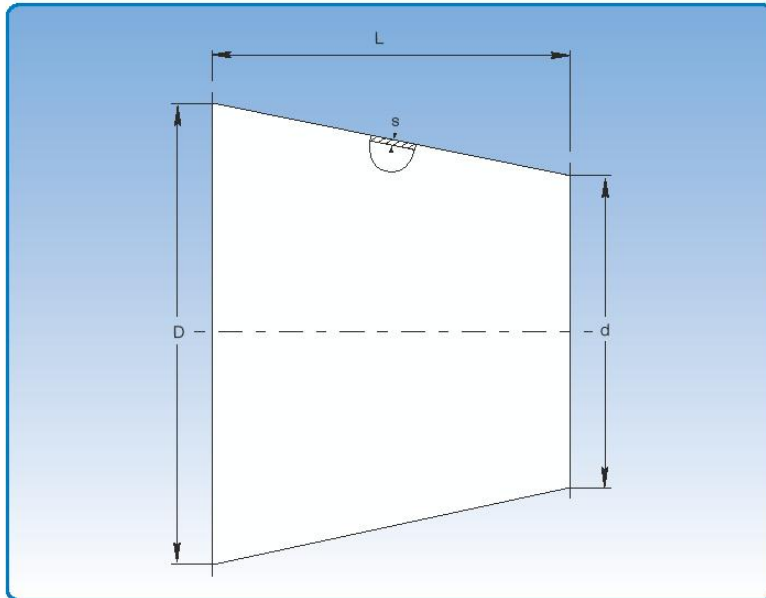
Dimensional specifications			
B mm	s mm	L mm	L1 mm
80	0.90	230	75.00
100	0.90	250	75.00
120	0.90	270	75.00
125	0.90	275	75.00
140	0.90	290	75.00
150	0.90	300	75.00
160	0.90	310	75.00
180	0.90	330	75.00
200	0.90	350	75.00
225	0.90	425	100.00
250	0.90	450	100.00
275	0.90	475	100.00
300	0.90	500	100.00
315	0.90	515	100.00
350	0.90	550	100.00
400	0.90	600	100.00
450	0.90	750	150.00
500	0.90	800	150.00
550	0.90	850	150.00
600	0.90	900	150.00
630	0.90	930	150.00
650	0.90	950	150.00
700	0.90	1100	200.00
750	0.90	1150	200.00
800	1.00	1200	200.00
850	1.00	1250	200.00
900	1.00	1300	200.00
950	1.00	1350	200.00
1000	1.00	1400	200.00

Tapers, galvanized

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

Tapers are spot welded and made as standard from 0,90 mm Galvanized sheet (s).

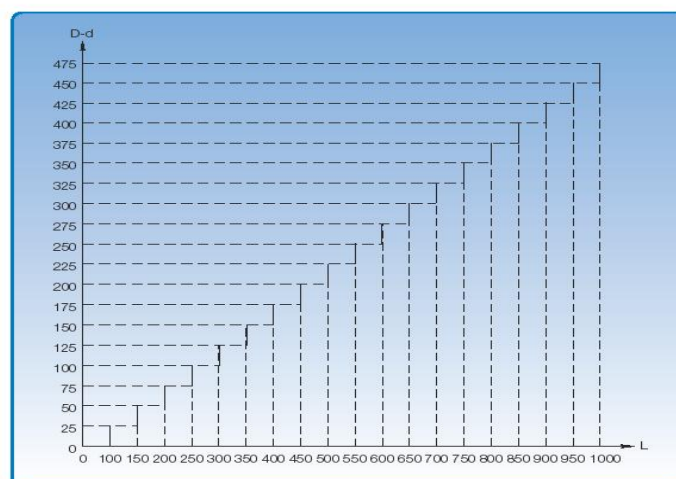
When mounting with wide pull rings [f.bb], rapid lock pull rings [f.lyn] and flanges [m.fl], the length L is increased by 2×50 mm.



Calculation of the length L of the taper:

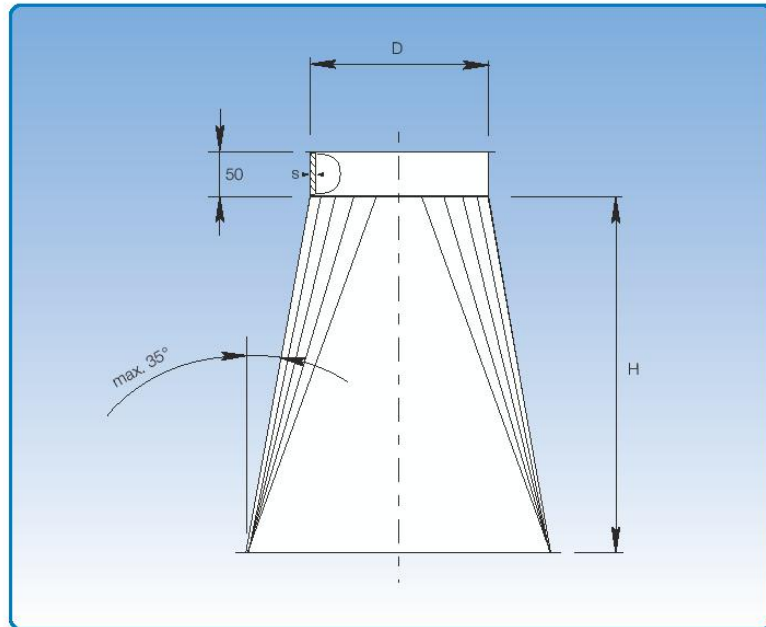
The difference between the large and the small diameter ($D - d$) of the taper is plotted on the vertical axis (y) in the system of co-ordinates.

By following the line from this point to the intersection, the length L is read in the corresponding point on the horizontal axis (x) in the system of co-ordinates



Transition pieces, Galvanized

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



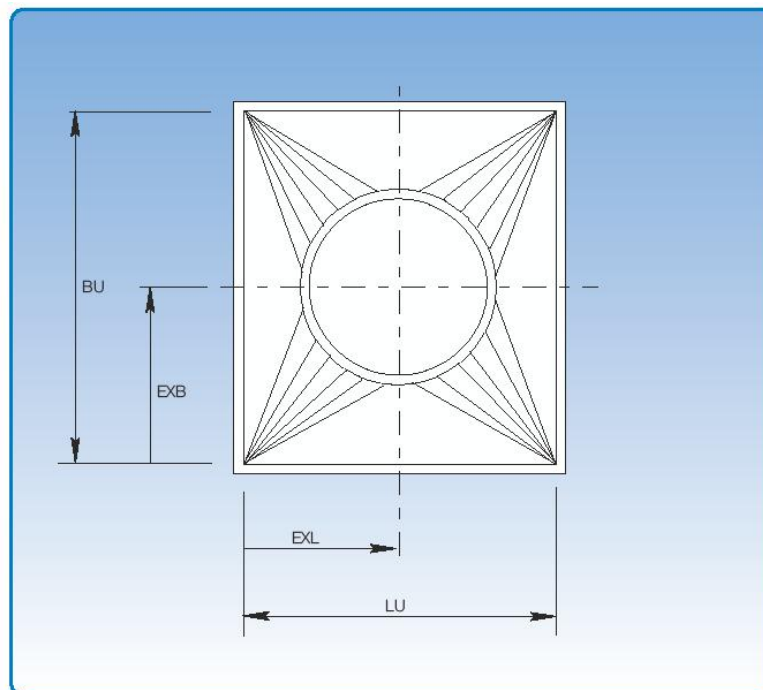
Transition pieces are spot welded and made from 0,90 mm galvanized sheet (s).

The following formula applies to all transition pieces.

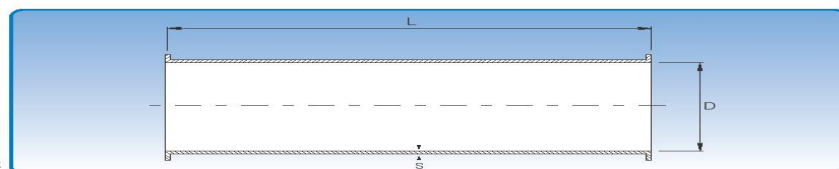
Calculation of the length H:

$$H = 250 + 0,5 \times (\text{maximum value of } LU - D) \text{ or } (BU - D).$$

The transition pieces are made to order in other dimensions. The transition pieces can also be made asymmetrical.



Ducts, 2 and 3 mm

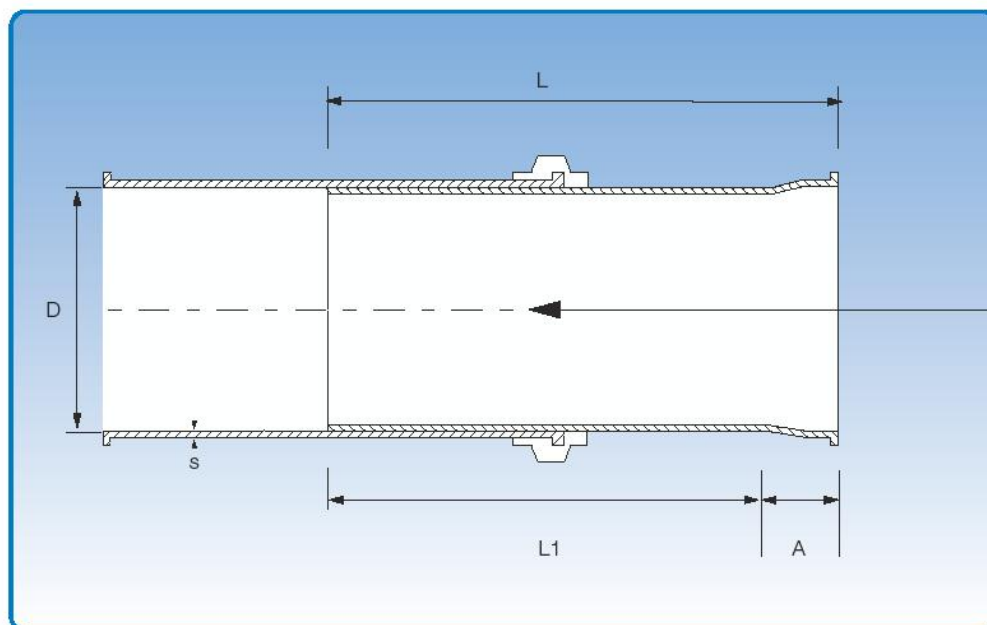


Dimensional specifications					
D mm	s mm	Weight L=0,2 m kg	Weight L=0,5 m kg	Weight L=1,0 m kg	Weight L=2,0 m kg
100	2.0	1.0	2.5	5.0	10.0
120	2.0	1.3	3.1	6.2	12.4
125	2.0	1.4	3.2	6.4	12.8
140	2.0	1.5	3.6	7.2	14.4
150	2.0	1.6	3.8	7.6	15.2
160	2.0	1.7	4.1	8.2	16.4
180	2.0	1.8	4.6	9.1	18.2
200	2.0	2.1	5.1	10.2	20.4
275	2.0	2.5	5.8	11.7	22.8
250	2.0	2.7	6.3	12.6	25.2
300	2.0	3.2	7.6	15.2	30.4
315	2.0	3.4	7.9	16.0	31.9
350	2.0	3.8	8.9	17.8	35.6
400	2.0	4.3	10.1	20.2	40.4
450	2.0	4.9	11.4	22.8	45.6
500	2.0	5.4	12.6	25.2	50.4
550	2.0	6.0	13.9	27.8	55.6
600	2.0	6.6	15.2	30.4	60.8
630	2.0	6.4	15.9	21.8	63.6
650	2.0	6.6	16.4	32.8	65.6
700	2.0	7.1	17.6	35.2	70.4
750	2.0	7.6	18.9	37.8	75.6
800	2.0	8.1	20.2	40.4	80.8
850	2.0	8.6	21.4	42.8	85.6
900	2.0	9.1	22.7	45.3	90.6
950	2.0	9.6	24.0	48.0	96.0
1000	2.0	10.1	25.2	50.4	100.8
150	3.0	2.4	5.7	11.4	22.8
160	3.0	2.5	6.1	12.2	24.4
180	3.0	2.7	6.8	13.6	27.2
200	3.0	3.2	7.6	15.0	30.4
250	3.0	4.0	9.5	19.0	38.0
275	3.0	4.6	10.2	20.5	41.2
300	3.0	4.8	11.4	22.8	45.6
315	3.0	5.0	12.0	24.0	47.8
350	3.0	5.7	13.3	26.6	53.2
400	3.0	6.5	15.2	30.4	60.8
450	3.0	7.3	17.1	34.2	68.4
500	3.0	8.1	19.0	38.0	76.0
550	3.0	8.4	20.9	41.8	83.6
600	3.0	9.7	22.7	45.4	90.8
630	3.0	9.5	23.8	47.6	95.2
650	3.0	9.7	24.6	49.2	98.4
700	3.0	10.6	26.4	52.8	105.6
750	3.0	11.3	28.3	56.6	113.2
800	3.0	12.1	30.2	60.4	120.8
850	3.0	12.9	32.1	64.2	128.4
900	3.0	13.6	34.0	68.0	136.0
950	3.0	14.4	35.9	71.8	143.6
1000	3.0	15.1	37.8	75.6	151.2

Telescopic ducts, 2 and 3 mm

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

Welded telescopic ducts are made from 2,00 and 3,00 mm steel plate (s) and supplied with rapid lock pull rings with rubber insert



Dimensional specifications						
D	L mm	A mm	L1 mm	s mm	Weight 2 mm kg	Weight 3 mm kg
100	500	55	445	2.0	2.4	-
120	500	55	445	2.0	2.9	-
125	500	55	445	2.0	3.0	-
140	500	65	435	2.0	3.4	-
150	500	65	435	2,00 and 3,00	3.6	5.5
160	500	65	435	2,00 and 3,00	3.8	5.7
180	500	65	435	2,00 and 3,00	4.3	6.5
200	500	65	435	2,00 and 3,00	4.8	7.2
225	500	65	435	2,00 and 3,00	5.5	8.3
250	500	65	435	2,00 and 3,00	6.1	9.2
275	500	65	435	2,00 and 3,00	6.7	10.0
300	500	65	435	2,00 and 3,00	7.3	11.0
315	500	65	435	2,00 and 3,00	7.7	11.6
350	500	65	435	2,00 and 3,00	8.5	12.8
400	500	65	435	2,00 and 3,00	9.8	14.7
450	500	65	435	2,00 and 3,00	11.0	16.5
500	500	70	430	2,00 and 3,00	12.3	18.5

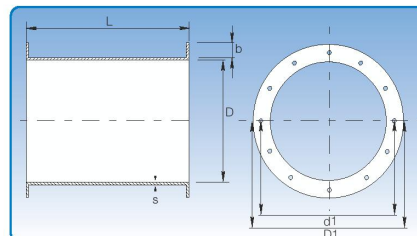
Ducts with direct flange, 2 and 3 mm

Diameter: $\varnothing 300 - \varnothing 1000$ mm.

Ducts with direct flange are welded and made from 2,00 and 3,00 mm steel plate (s).

These ducts are supplied with rolled flanges [d.fl] in the same material as the ducts.

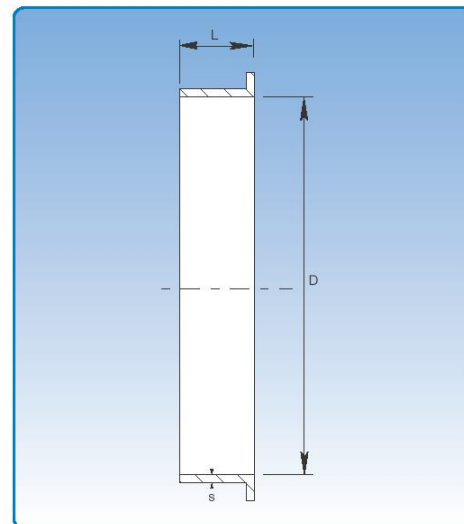
The rolled flanges can be used together with standard program of loose and welded flanges.



Dimensional specifications					
D mm	s mm	Weight L=0,2 m kg	Weight L=0,5 m kg	Weight L=1,0 m kg	Weight L=2,0 m kg
100	2.0	1.0	2.5	5.0	10.0
120	2.0	1.3	3.1	6.2	12.4
125	2.0	1.4	3.2	6.4	12.8
140	2.0	1.5	3.6	7.2	14.4
150	2.0	1.6	3.8	7.6	15.2
160	2.0	1.7	4.1	8.2	16.4
180	2.0	1.8	4.6	9.1	18.2
200	2.0	2.1	5.1	10.2	20.4
275	2.0	2.5	5.8	11.7	22.8
250	2.0	2.7	6.3	12.6	25.2
300	2.0	3.2	7.6	15.2	30.4
315	2.0	3.4	7.9	16.0	31.9
350	2.0	3.8	8.9	17.8	35.6
400	2.0	4.3	10.1	20.2	40.4
450	2.0	4.9	11.4	22.8	45.6
500	2.0	5.4	12.6	25.2	50.4
550	2.0	6.0	13.9	27.8	55.6
600	2.0	6.6	15.2	30.4	60.8
630	2.0	6.4	15.9	21.8	63.6
650	2.0	6.6	16.4	32.8	65.6
700	2.0	7.1	17.6	35.2	70.4
750	2.0	7.6	18.9	37.8	75.6
800	2.0	8.1	20.2	40.4	80.8
850	2.0	8.6	21.4	42.8	85.6
900	2.0	9.1	22.7	45.3	90.6
950	2.0	9.6	24.0	48.0	96.0
1000	2.0	10.1	25.2	50.4	100.8
150	3.0	2.4	5.7	11.4	22.8
160	3.0	2.5	6.1	12.2	24.4
180	3.0	2.7	6.8	13.6	27.2
200	3.0	3.2	7.6	15.0	30.4
250	3.0	4.0	9.5	19.0	38.0
275	3.0	4.6	10.2	20.5	41.2
300	3.0	4.8	11.4	22.8	45.6
315	3.0	5.0	12.0	24.0	47.8
350	3.0	5.7	13.3	26.6	53.2
400	3.0	6.5	15.2	30.4	60.8
450	3.0	7.3	17.1	34.2	68.4
500	3.0	8.1	19.0	38.0	76.0
550	3.0	8.4	20.9	41.8	83.6
600	3.0	9.7	22.7	45.4	90.8
630	3.0	9.5	23.8	47.6	95.2
650	3.0	9.7	24.6	49.2	98.4
700	3.0	10.6	26.4	52.8	105.6
750	3.0	11.3	28.3	56.6	113.2
800	3.0	12.1	30.2	60.4	120.8
850	3.0	12.9	32.1	64.2	128.4
900	3.0	13.6	34.0	68.0	136.0
950	3.0	14.4	35.9	71.8	143.6
1000	3.0	15.1	37.8	75.6	151.2

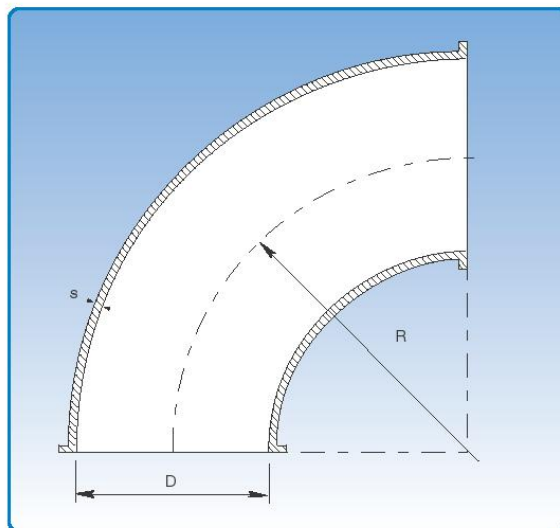
Welding ends, 2 and 3 mm

Dimensional specifications				
D mm	s mm	L mm	Weight 2 mm kg	Weight 3 mm kg
80	2,00	30	0,15	-
100	2,00	35	0,20	-
120	2,00	35	0,25	-
125	2,00	35	0,25	-
140	2,00	35	0,35	-
150	2,00 and 3,00	45	0,40	0,60
160	2,00 and 3,01	45	0,40	0,60
180	2,00 and 3,02	45	0,45	0,70
200	2,00 and 3,03	45	0,50	0,75
225	2,00 and 3,04	45	0,60	0,90
150	2,00 and 3,05	45	0,65	0,95
275	2,00 and 3,06	45	0,69	1,00
300	2,00 and 3,07	45	0,75	1,15
315	2,00 and 3,08	45	0,80	1,20
350	2,00 and 3,09	45	0,90	1,35
400	2,00 and 3,10	45	1,00	1,50
450	2,00 and 3,11	45	1,15	1,70
500	2,00 and 3,12	50	1,40	2,00
550	2,00 and 3,13	50	5,60	2,30
600	2,00 and 3,14	50	1,65	2,50



Dimensional specifications are given in the table below.

Pressed bends, 2 and 3 mm

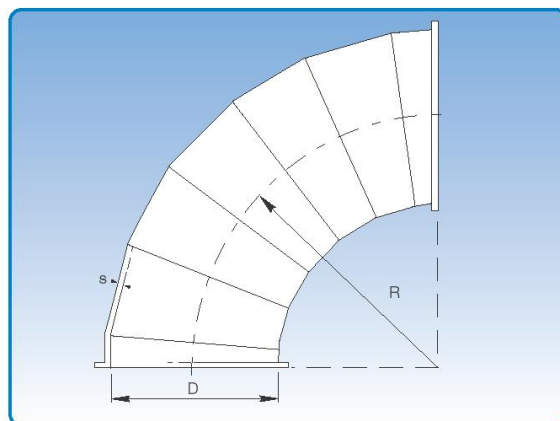


Dimensional specifications are given in the table below.
 $R = 1,5 \times D$ for all dimensions.

Dimensional specifications						
D mm	s mm	Weight 90° kg	Weight 60° kg	Weight 45° kg	Weight 30° kg	Weight 15° kg
100	2,00	1,2	0,9	0,6	0,4	0,2
120	2,00	1,8	1,2	0,9	0,6	0,3
125	2,00	2,0	1,3	1,0	0,7	0,4
150	2,00	2,9	2,0	1,4	1,0	0,5
160	2,00	3,2	2,2	1,6	1,1	0,7
180	2,00	4,1	2,7	2,1	1,4	0,7
200	2,00	5,0	3,4	2,5	1,7	0,7
250	2,00	7,6	5,2	3,8	2,6	1,4
300	2,00	11,2	7,5	5,6	3,8	1,9
350	2,00	15,7	10,4	7,8	5,2	2,6
400	2,00	19,6	13,1	9,8	6,5	3,3
150	3,00	4,3	3,0	2,2	1,5	0,8
160	3,00	4,8	3,2	2,4	1,6	1,0
180	3,00	6,2	4,1	3,1	2,1	1,1
200	3,00	7,5	5,1	3,7	2,5	1,3

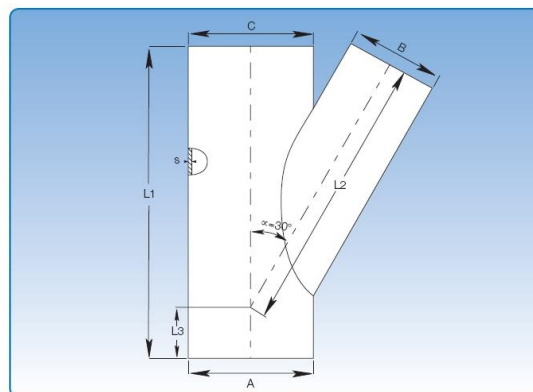
Segment bends, 2 and 3 mm

Dimensional specifications						
D	s	Weight 90°	Weight 60°	Weight 45°	Weight 30°	Weight 15°
mm	mm	kg	kg	kg	kg	kg
140	2,00	3,7	2,8	2,1	1,4	0,7
225	2,00	7,6	5,2	3,9	2,2	1,3
275	2,00	9,5	6,5	4,8	3,3	1,8
315	2,00	13,1	8,6	6,5	4,4	2,2
450	2,00	24,2	16,2	12,1	8,1	4,0
500	2,00	29,9	20,0	15,0	10,0	5,0
550	2,00	36,2	24,2	18,1	12,1	6,0
600	2,00	43,1	28,8	21,6	14,4	7,2
630	2,00	47,4	31,7	23,8	15,8	7,9
650	2,00	50,6	33,8	25,3	16,9	8,4
700	2,00	58,8	39,2	29,4	19,6	9,8
750	2,00	67,5	45,0	33,8	22,5	11,3
800	2,00	76,8	51,2	38,4	25,6	12,8
850	2,00	86,8	57,8	43,4	28,9	14,5
900	2,00	97,3	64,9	48,7	32,4	16,2
950	2,00	108,4	72,3	54,2	36,1	18,1
1000	2,00	120,2	80,1	60,1	40,1	20,0
225	3,00	9,6	6,7	5,0	3,3	1,7
250	3,00	11,1	7,4	5,6	3,7	1,9
275	3,00	13,0	8,6	6,4	4,3	2,1
300	3,00	16,1	10,7	8,0	5,4	2,7
315	3,00	19,8	13,1	9,9	6,5	3,2
350	3,00	22,0	14,6	11,0	7,3	3,7
400	3,00	28,6	19,1	14,3	9,5	4,8
450	3,00	36,4	24,2	18,2	12,1	6,1
500	3,00	44,9	29,9	22,4	15,0	7,5
550	3,00	54,4	36,2	27,2	18,1	9,1
600	3,00	64,7	43,2	32,4	21,6	10,8
630	3,00	71,1	47,4	35,6	23,7	11,9
650	3,00	76,0	50,6	38,0	25,3	12,7
700	3,00	88,2	58,8	44,1	29,4	14,7
750	3,00	101,3	67,5	50,6	33,8	16,9
800	3,00	115,2	76,8	57,6	38,4	19,2
850	3,00	130,1	86,8	65,1	43,4	21,7
900	3,00	146,0	97,3	73,0	48,7	24,3
950	3,00	162,6	108,4	81,3	54,2	27,1
1000	3,00	180,3	120,2	90,2	60,1	30,1



Dimensional specifications are given in the table below.
 $R = 1,5 \times D$ for all dimensions.

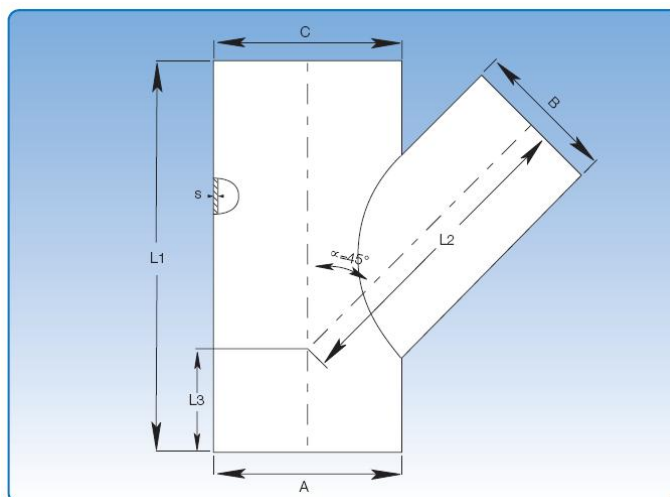
30° straight branch pieces, 2 and 3 mm



Dimensional specifications					
A mm	B mm	C mm	L1 mm	L2 mm	L3 mm
Choose (100-500)	80	Choose (100-500)	350	Calculated	Calculated
	100		350		
	120		350		
	125		400		
	140		450		
	150		450		
	160		450		
	180		550		
	200		550		
	225		600		
	250		750		
	275		750		
	300		750		
	315		850		
	350		950		
	400		1050		
Choose (550-1000)	450	Choose (550-1000)	1250	Calculated	Calculated
	500		1250		
	550		1250		
	600		1450		
	650		1650		
	700		1650		
	750		1850		
	800		1850		
	850		2050		
	900		2050		

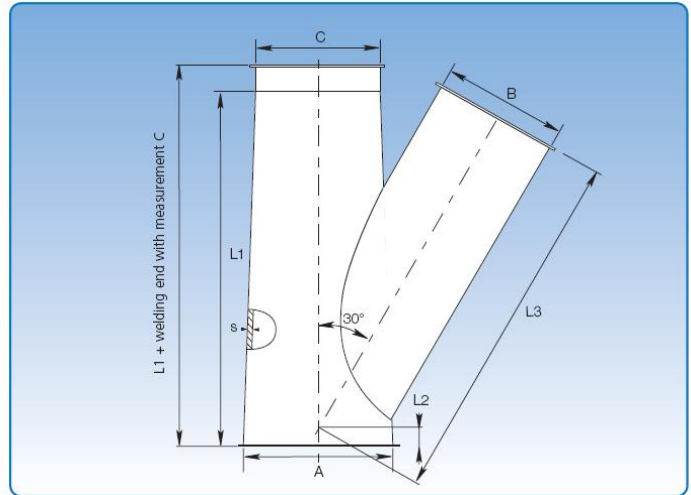
45° straight branch pieces, 2 and 3 mm

Dimensional specifications					
A mm	B mm	C mm	L1 mm	L2 mm	L3 mm
Choose (100-500)	80	Choose (100-500)	350	Calculated	Calculated
	100		350		
	120		350		
	125		400		
	140		450		
	150		450		
	160		450		
	180		550		
	200		550		
	225		600		
	250		750		
	275		750		
	300		750		
	315		850		
	350		950		
	400		1050		
Choose (550-1000)	450	Choose (550-1000)	1250	Calculated	Calculated
	500		1250		
	550		1250		
	600		1450		
	650		1650		
	700		1650		
	750		1850		
	800		1850		
	850		2050		
	900		2050		

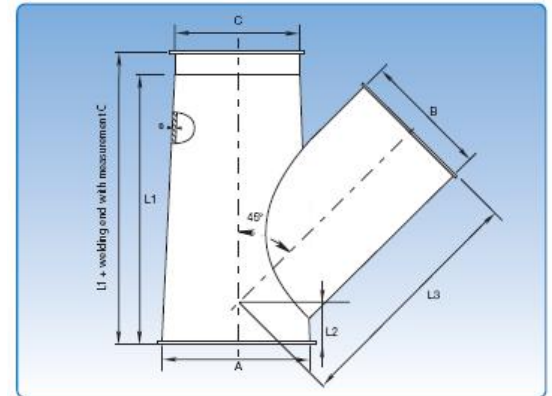


30° conical branch pieces, 2 and 3 mm

Dimensional specifications					
A mm	B mm	C mm	L1 mm	L2 mm	L3 mm
Choose (100-500)	80	Choose (100-500)	300	Calculated	Calculated
	100		300		
	120		350		
	125		350		
	140		350		
	150		400		
	160		400		
	180		400		
	200		450		
	225		500		
	250		500		
	275		600		
	300		600		
	315		600		
	350		700		
	400		800		
Choose (550-1000)	450	Choose (550-1000)	950	Calculated	Calculated
	500		1050		
	550		1150		
	600		1250		
	650		1150		
	700		1300		
	750		1300		
	800		1450		
	850		1450		
	900		1650		

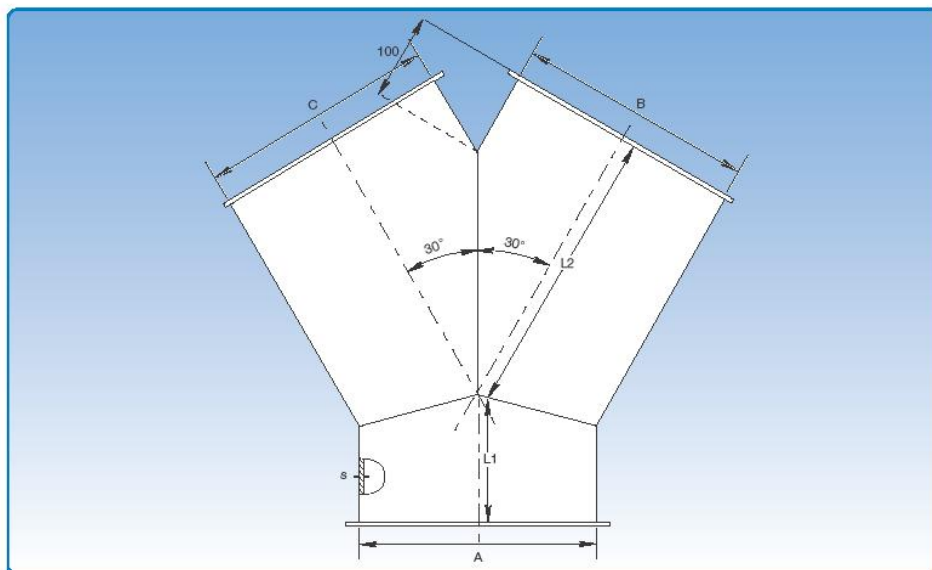


45° conical branch pieces, 2 and 3 mm



Dimensional specifications					
A mm	B mm	C mm	L1 mm	L2 mm	L3 mm
Choose (100-500)	80	Choose (100-500)	300	Calculated	Calculated
	100		300		
	120		350		
	125		350		
	140		350		
	150		400		
	160		400		
	180		400		
	200		450		
	225		500		
	250		500		
	275		600		
	300		600		
	315		600		
	350		700		
	400		800		
Choose (550-1000)	450	Choose (550-1000)	950	Calculated	Calculated
	500		1050		
	550		1150		
	600		1250		
	650		1150		
	700		1300		
	750		1300		
	800		1450		
	850		1450		
	900		1650		

30° trouser pieces, 2 and 3 mm



Diameter A for 2 mm: $\phi 100 - \phi 1000$ mm.

Diameter A for 3 mm: $\phi 150 - \phi 1000$ mm.

Calculation of L1 and L2:

$$L1 = 0,5 \times A$$

$$L2 = 0,866 \times A + 100$$

Example:

$$A = B = C = 350$$

$$L1 = 0,5 \times 350 = 175$$

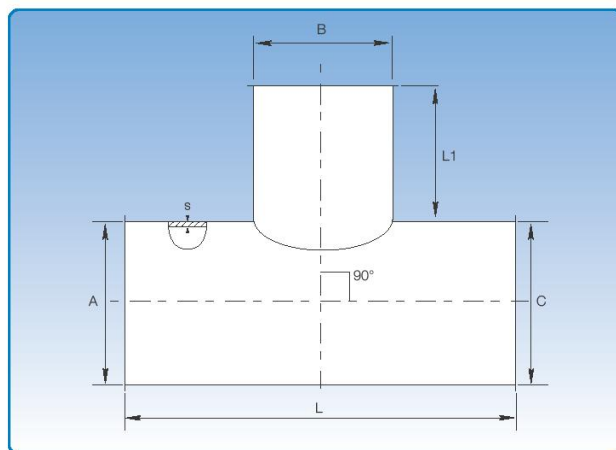
$$L1 = 175 \text{ mm}$$

$$L2 = (0,866 \times 350) + 100 = 403,1$$

$$L2 = 403 \text{ mm}$$

90 ° T-pieces, 2 and 3 mm

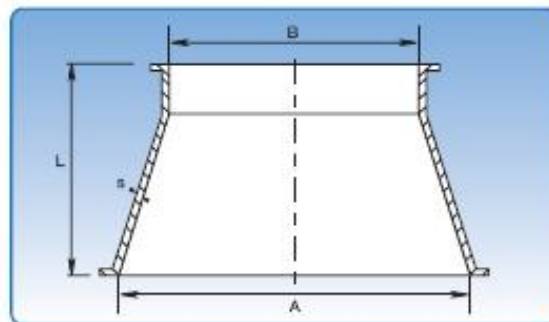
Dimensional specifications			
B mm	s mm	L mm	L1 mm
80	2,00	230	75
100	2,00	250	75
120	2,00	270	75
125	2,00	275	75
140	2,00	290	75
150	2,00 and 3,00	300	75
160	2,00 and 3,00	310	75
180	2,00 and 3,00	330	75
200	2,00 and 3,00	350	75
225	2,00 and 3,00	425	100
250	2,00 and 3,00	450	100
275	2,00 and 3,00	475	100
300	2,00 and 3,00	500	100
315	2,00 and 3,00	515	100
350	2,00 and 3,00	550	100
400	2,00 and 3,00	600	100
450	2,00 and 3,00	750	150
500	2,00 and 3,00	800	150
550	2,00 and 3,00	850	150
600	2,00 and 3,00	900	150
630	2,00 and 3,00	930	150
650	2,00 and 3,00	950	150
700	2,00 and 3,00	1100	200
750	2,00 and 3,00	1150	200
800	2,00 and 3,00	1200	200
850	2,00 and 3,00	1250	200
900	2,00 and 3,00	1300	200
950	2,00 and 3,00	1350	200
1000	2,00 and 3,00	1400	200



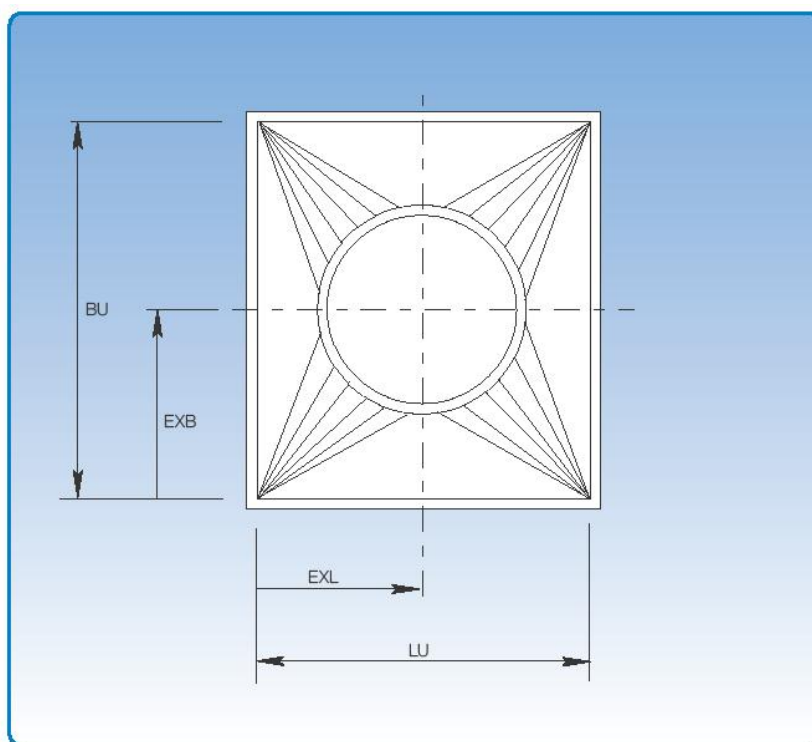
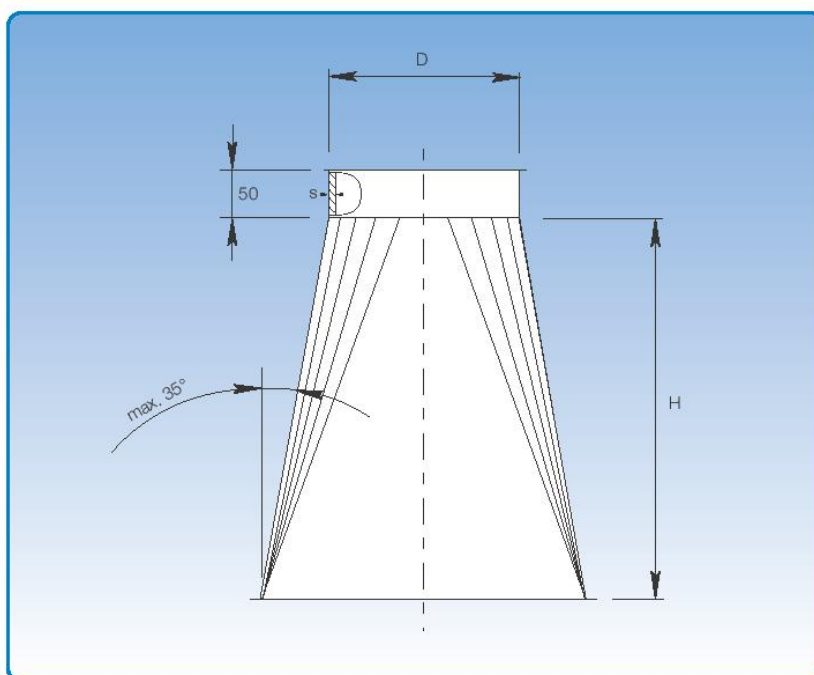
Dimensional specifications are given in the table below.

Tapers, 2 and 3 mm

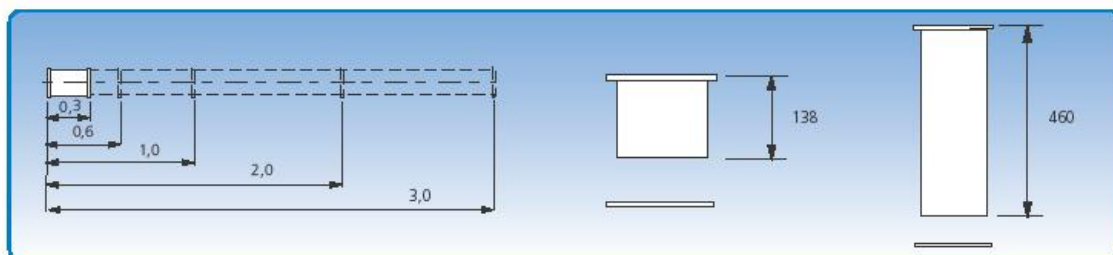
Dimensional specifications				
A mm	B mm	s mm	L mm	Weight kg
100	80	2,00	70	0,35
120	100	2,00	75	0,45
125	100	2,00	75	0,45
140	100	2,00	125	0,85
150	100	2,00	125	0,60
150	125	2,00	75	0,55
160	100	2,00	150	1,00
160	140	2,00	100	0,80
180	100	2,00	150	1,10
180	150	2,00	100	0,90
200	100	2,00	200	2,90
200	160	2,00	125	1,20
225	125	2,00	200	1,85
225	180	2,00	150	1,60
250	150	2,00	200	2,20
250	200	2,00	150	1,80
275	180	2,00	200	2,28
275	200	2,00	200	2,41
300	200	2,00	200	2,75
300	225	2,00	200	2,65
315	225	2,00	200	2,75
315	250	2,00	200	3,00
350	250	2,00	200	3,30
350	300	2,00	150	2,60
400	300	2,00	200	3,90
400	315	2,00	200	2,20
450	350	2,00	200	4,50
500	400	2,00	200	5,05
550	450	2,00	200	5,60
600	500	2,00	200	6,10
650	550	2,00	200	6,70
700	600	2,00	200	7,40
750	650	2,00	200	8,15
800	700	2,00	200	8,95
850	750	2,00	200	9,85
900	800	2,00	200	10,85
950	850	2,00	200	11,95
1000	900	2,00	200	13,15
160	150	3,00	100	0,90
180	150	3,00	100	1,35
200	160	3,00	125	1,75
225	180	3,00	150	2,35
250	200	3,00	150	2,70



Transition pieces, 2 and 3 mm



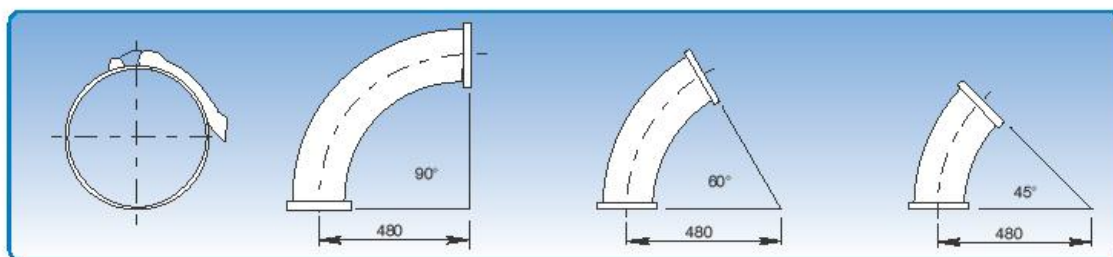
JK-6" duct systems



JK-6" duct system, galvanised

0,1 m telescopic ducts, galvanised

0,5 m telescopic ducts, galvanised

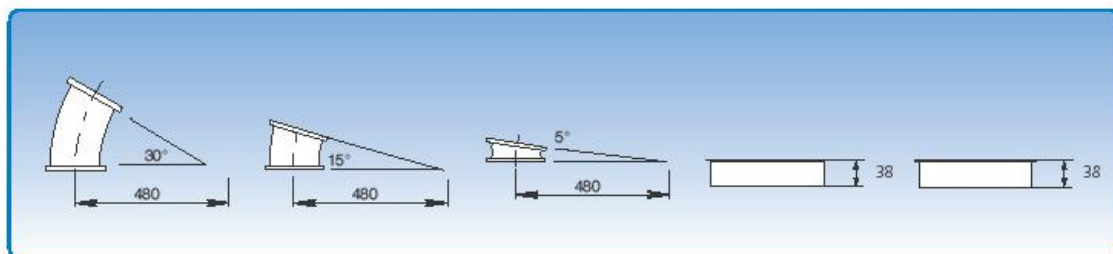


Rapid lock pull rings, galvanised

90° bends, grey

60° bends, grey

45° bends, grey



30° bends, grey

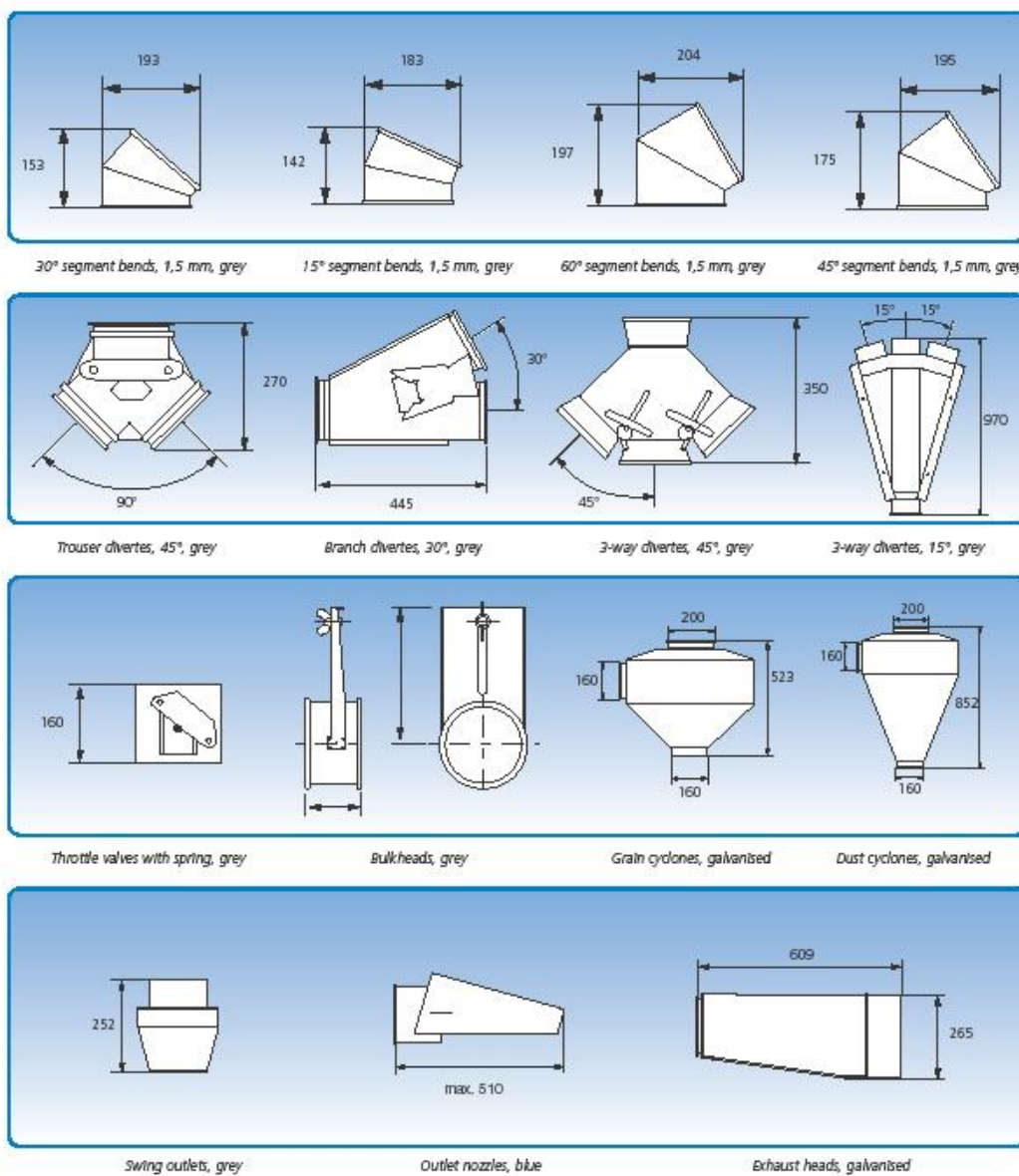
15° bends, grey

5° bends, grey

Welding ends, 1,0 mm

Welding ends, 2,0 mm

JK-6" duct systems



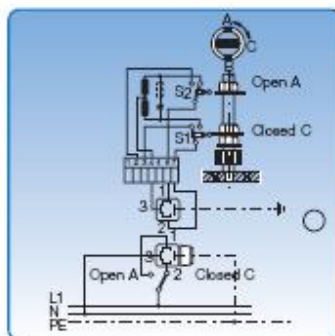
Automation for sliding dampers, throttle valves and diverters

The circuit diagrams shown apply to the standard systems on the sliding dampers, throttle valves and diverters.

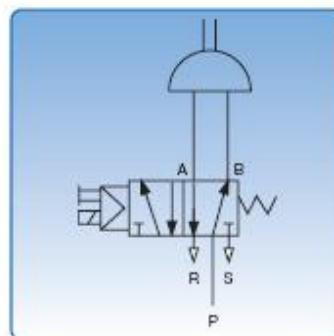
The systems operate pneumatically at maximum 6 bar and electrically at 230 V AC.

Systems operating at other voltage levels can be supplied.

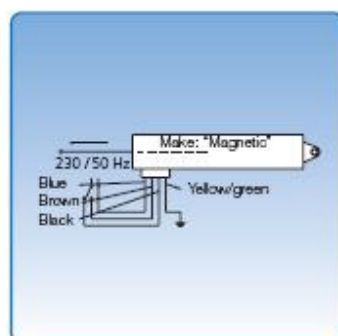
Circuit diagrams for systems operating at other voltage levels are available.



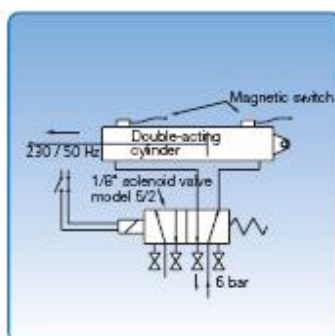
Circuit diagram of electric motor for pressed diverter, diameter: ø100 - ø300 mm.



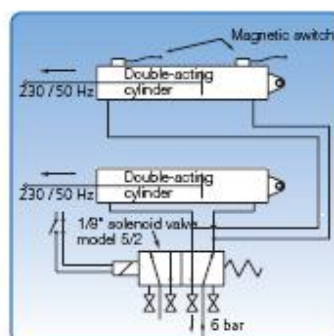
Circuit diagram of pneumatic actuator for pressed diverter, diameter: ø100 - ø300 mm and throttle valve, diameter: ø80 - ø400 mm.



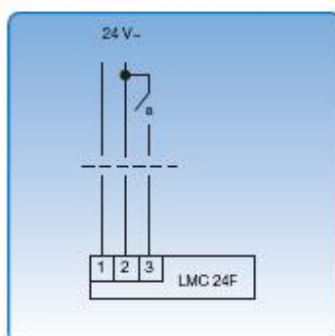
Circuit diagram of electric cylinder for welded diverter, diameter: ø80 - ø550 mm and standard sliding damper, diameter: ø80 - ø275 mm.



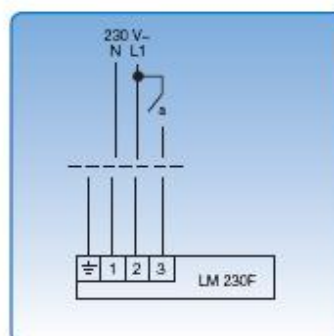
Circuit diagram of pneumatic cylinder for welded diverter, diameter: ø80 - ø550 mm and standard sliding damper, diameter: ø80 - ø500 mm.



Circuit diagram of two pneumatic cylinders for tight sliding dampers, diameter: ø80 - ø500 mm.

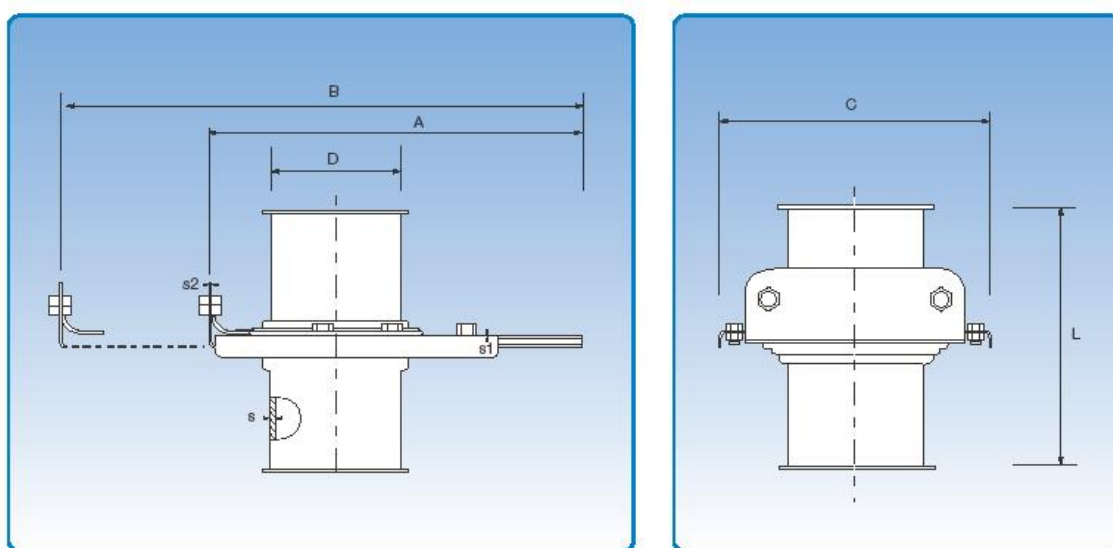


Circuit diagram of electric motor for throttle valve, diameter: ø80 - ø160 mm.



Circuit diagram of electric motor for throttle valve, diameter: ø180 - ø400 mm.

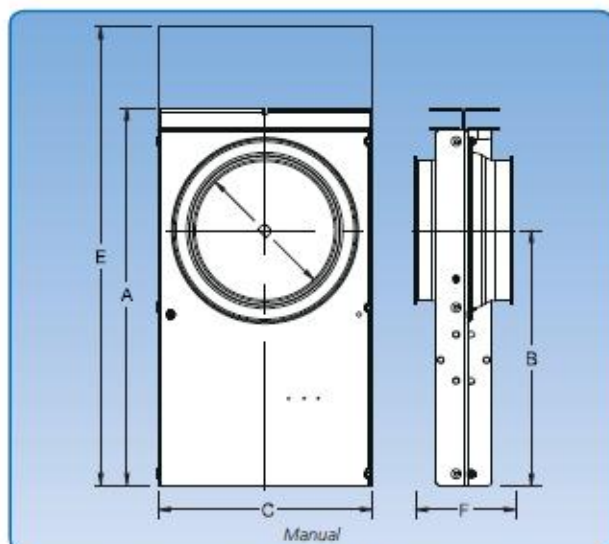
Tight sliding dampers, $\varnothing 80 - \varnothing 200$ mm galvanised, manually operated



Dimensional specifications are given in the table below.

Dimensional specifications								
D mm	s mm	s1 mm	s2 mm	A mm	B mm	C mm	L mm	Weight kg
80	0,90	1,25	1,5	225	320	160	135	1,20
100	0,90	1,25	1,5	265	380	190	135	1,50
120	0,90	1,25	2,0	325	460	215	135	2,10
125	0,90	1,25	2,0	325	460	215	135	2,10
140	0,90	1,25	2,0	375	540	240	135	2,90
150	0,90	1,25	2,0	375	540	240	135	2,90
160	0,90	1,25	2,0	405	585	250	135	3,20
180	0,90	1,25	2,0	455	655	290	135	4,10
200	0,90	1,25	2,0	485	705	300	135	4,40

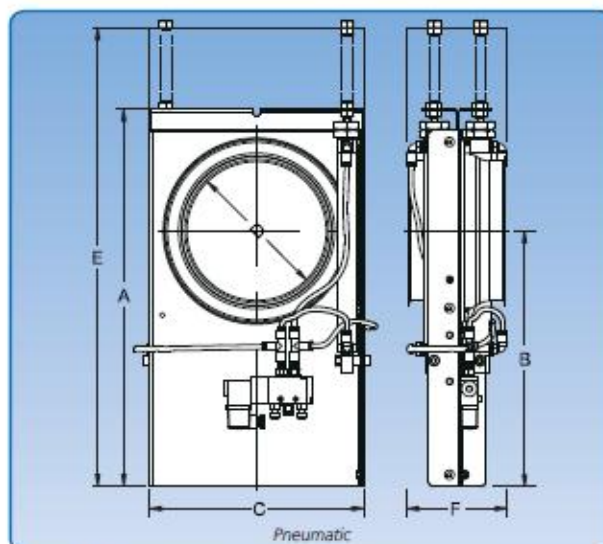
Tight sliding dampers, galvanised, manual & pneumatic



Dimensional specifications are given in the table below.

General

Sliding dampers are made of 1.50 mm, 2.00 mm and 2.50 mm galvanised sheet metal (s). The damper plate slides in the polyether and PEHD gaskets to ensure optimum tightness.



Dimensional specifications are given in the table below.

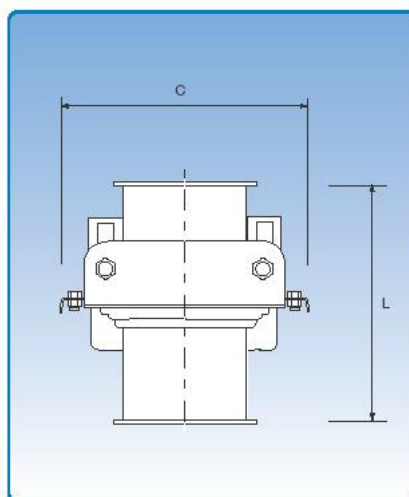
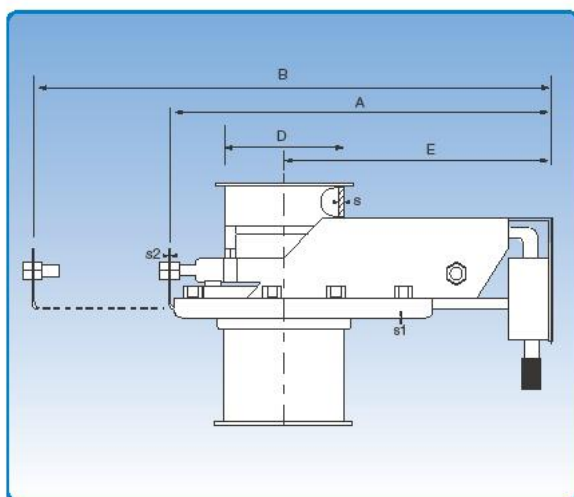
With pneumatic actuator

The pneumatic damper is fitted with 2 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

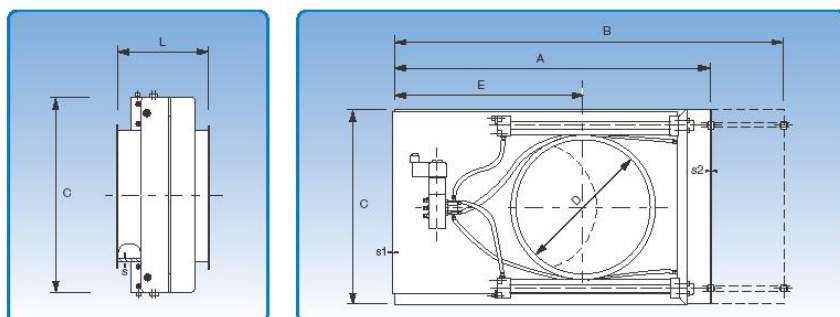
D mm	A mm	B mm	C mm	E mm	F mm	Material thickness Damper plate (mm)	Material thickness Damper house (mm)	Weight (kg) Manual	Weight (kg) Pneu.
50*	220	130	140	295	145	2,0	1,5	1,7	2,8
63*	220	130	140	295	145	2,0	1,5	1,7	2,8
76*	250	150	160	340	145	2,0	1,5	2,1	3,2
80	250	150	160	340	125	2,0	1,5	2,1	3,1
100	290	180	180	400	125	2,0	1,5	2,6	3,6
108*	340	220	205	475	145	2,0	1,5	3,3	4,7
120	340	220	205	475	125	2,0	1,5	3,3	4,3
125	340	220	205	475	125	2,0	1,5	3,3	4,3
140	390	255	230	550	125	2,0	1,5	4,0	5,1
150	390	255	230	550	125	2,0	1,5	4,0	5,1
152*	390	255	230	560	145	2,0	1,5	4,3	5,4
160	410	270	240	580	125	2,0	1,5	4,3	5,5
180	490	330	280	700	125	2,0	1,5	5,7	7,5
200	490	330	280	700	125	2,0	1,5	5,8	7,5
225	590	405	350	850	165	3,0	2,0	11,7	13,5
250	590	405	375	850	165	3,0	2,0	12,1	14,0
275	650	445	400	975	165	3,0	2,0	14,7	18,7
300	730	505	425	1055	165	3,0	2,0	16,6	20,7
315	730	505	440	1055	165	3,0	2,0	16,9	20,9
350	800	555	475	1160	165	3,0	2,0	19,6	23,9
400	900	630	525	1310	165	3,0	2,0	23,5	28,5
450	1035	705	625	1495	250	3,0	3,0	52,1	62,4
500	1135	780	675	1645	250	3,0	3,0	59,9	71,0

Tight sliding dampers, $\varnothing 80 - \varnothing 200$ mm galvanised, pneumatically operated



Dimensional specifications									
D mm	s mm	s1 mm	s2 mm	A mm	B mm	C mm	L mm	E mm	Weight kg
80	0,90	1,25	1,50	260	355	160	135	190	2,3
100	0,90	1,25	1,50	305	415	190	135	225	2,8
120	0,90	1,25	2,00	360	500	215	135	260	3,6
125	0,90	1,25	2,00	360	500	215	135	260	3,6
140	0,90	1,25	2,00	415	580	240	135	300	4,4
150	0,90	1,25	2,00	415	580	240	135	300	4,4
160	0,90	1,25	2,00	445	620	250	135	325	4,9
180	0,90	1,25	2,00	495	695	290	135	355	6,0
200	0,90	1,25	2,00	525	745	300	135	385	6,3

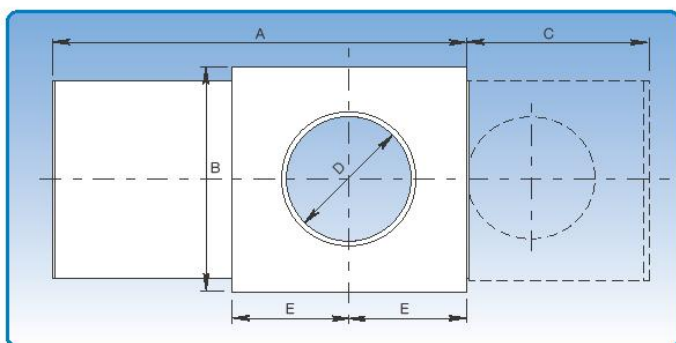
Tight sliding dampers, $\varnothing 225 - \varnothing 500$ mm galvanised, pneumatically operated



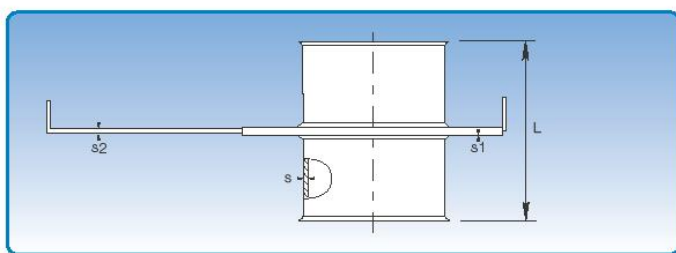
Dimensional specifications are given in the table below.

Dimensional specifications									
D mm	s mm	s1 mm	s2 mm	A mm	B mm	C mm	L mm	E mm	Weight kg
225	1,50	1,50	2,50	580	830	360	190	390	14,9
250	1,50	1,50	2,50	660	960	385	190	455	16,7
275	2,00	2,00	3,00	680	980	410	190	465	21,7
300	2,00	2,00	3,00	725	1045	435	190	495	23,0
315	2,00	2,00	3,00	855	1255	485	190	600	27,9
350	2,00	2,00	3,00	855	1255	485	190	600	29,8
400	2,00	2,50	3,00	1005	1505	545	190	725	41,0
450	2,00	2,50	3,00	1055	1555	595	190	750	44,7
500	2,00	3,00	3,00	1140	1670	645	190	805	56,2

Sliding dampers, ø80-ø500 mm galvanised, manually operated



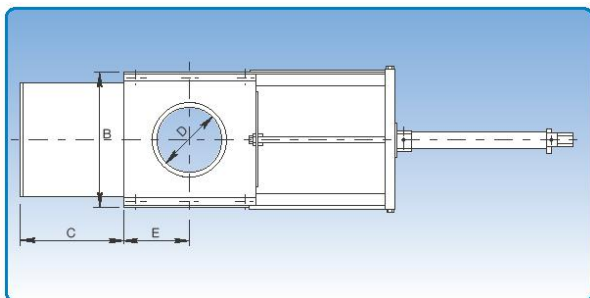
Dimensional specifications of the diameter (D) are given in the table below.



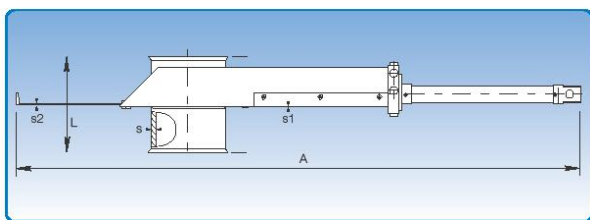
Dimensional specifications of the length (L) are given in the table below.

Dimensional specifications									
D mm	s mm	s1 mm	s2 mm	A mm	B mm	C mm	E mm	L mm	Weight kg
80	0,90	1,25	2,00	255	145	105	75	130	1,10
100	0,90	1,25	2,00	340	185	150	95	130	1,60
120	0,90	1,25	2,00	340	185	150	95	130	1,70
125	0,90	1,25	2,00	340	185	150	95	130	1,80
140	0,90	1,25	2,00	405	225	175	115	130	2,40
150	0,90	1,25	2,00	405	225	175	115	130	2,30
160	0,90	1,25	2,00	405	225	175	115	130	2,30
180	0,90	1,25	2,00	525	295	225	150	130	3,80
200	0,90	1,25	2,00	525	295	225	150	130	4,00
225	0,90	1,50	2,00	590	325	270	160	130	4,60
250	0,90	1,50	2,00	650	350	300	175	130	5,20
275	0,90	1,50	2,00	705	380	325	190	130	6,40
300	0,90	1,50	2,00	755	400	345	205	130	6,50
315	0,90	1,50	2,00	785	420	365	210	130	7,00
350	0,90	1,50	2,00	885	450	435	200	130	7,60
400	0,90	1,50	2,00	960	500	460	250	130	8,80
450	0,90	1,50	2,00	1050	550	500	275	130	10,00
500	0,90	1,50	2,00	1160	600	550	300	130	11,50

Sliding dampers, ø80-ø500 mm galvanised, pneumatically operated



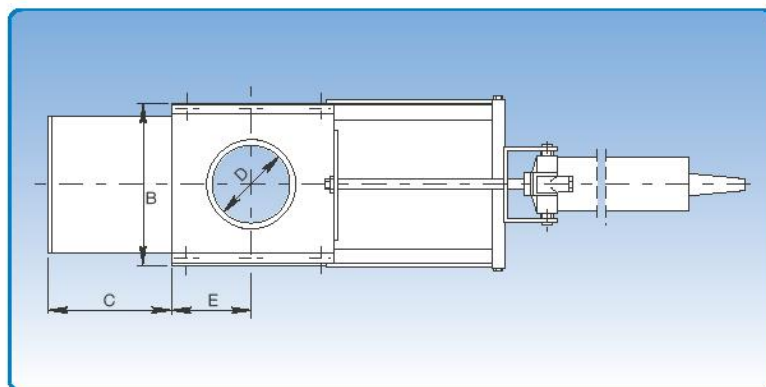
Dimensional specifications of the diameter (D) are given in the table below:



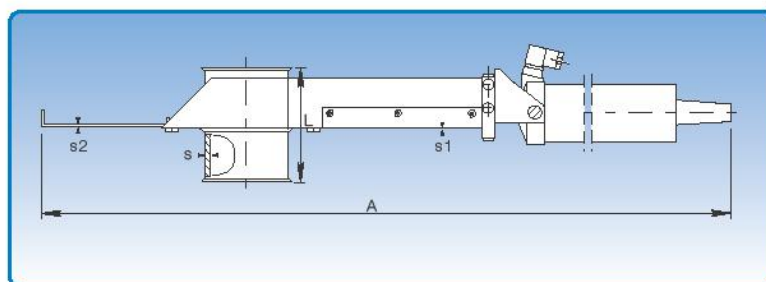
Dimensional specifications of the length (L) are given in the table below:

Dimensional specifications									
D mm	s mm	s1 mm	s2 mm	A mm	B mm	C mm	E mm	L mm	Weight kg
80	0,90	1,25	2,00	550	145	100	75	130	3,00
100	0,90	1,25	2,00	800	185	160	95	130	3,50
120	0,90	1,25	2,00	800	185	160	95	130	3,60
125	0,90	1,25	2,00	800	185	160	95	130	3,70
140	0,90	1,25	2,00	975	225	200	155	130	4,70
150	0,90	1,25	2,00	975	225	200	115	130	4,60
160	0,90	1,25	2,00	975	225	200	115	130	5,70
180	0,90	1,25	2,00	1180	295	250	150	130	7,80
200	0,90	1,25	2,00	1180	295	250	150	130	8,00
225	0,90	1,50	2,00	1365	325	300	160	130	9,00
250	0,90	1,50	2,00	1390	350	300	175	130	9,80
275	0,90	1,50	2,00	1725	380	400	190	130	11,20
300	0,90	1,50	2,00	1750	400	400	205	130	11,50
315	0,90	1,50	2,00	1770	420	400	210	130	13,30
350	0,90	1,50	2,00	2000	450	400	200	130	14,00
400	0,90	1,50	2,00	2150	500	500	250	130	16,00
450	0,90	1,50	2,00	2225	550	500	275	130	17,50
500	0,90	1,50	2,00	2575	600	600	300	130	20,50

Sliding dampers, ø80-ø250 mm galvanised, electrically operated



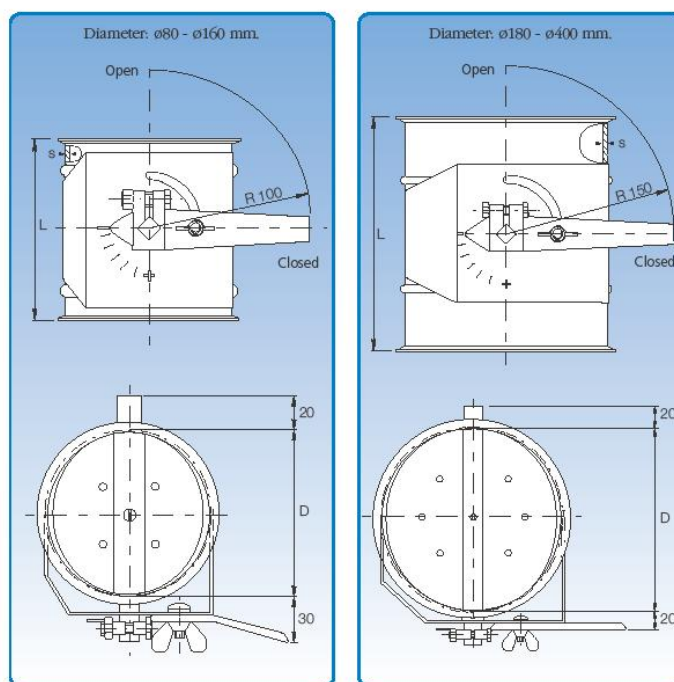
Dimensional specifications of the diameter (D) are given in the table below.



Dimensional specifications of the length (L) are given in the table below.

Dimensional specifications									
D mm	s mm	s1 mm	s2 mm	A mm	B mm	C mm	E mm	L mm	Weight kg
80	0,90	1,25	2,00	700	145	100	75	130	4,9
100	0,90	1,25	2,00	865	185	160	95	130	6,4
120	0,90	1,25	2,00	865	185	160	95	130	5,5
125	0,90	1,25	2,00	865	185	160	95	130	5,6
140	0,90	1,25	2,00	980	225	200	115	130	6,5
150	0,90	1,25	2,00	980	225	200	115	130	6,4
160	0,90	1,25	2,00	980	225	200	115	130	6,4
180	0,90	1,25	2,00	1250	295	250	150	130	8,3
200	0,90	1,25	2,00	1250	295	250	150	130	8,5
225	0,90	1,50	2,00	1370	325	300	160	130	9,1
250	0,90	1,50	2,00	1400	350	300	175	130	9,8

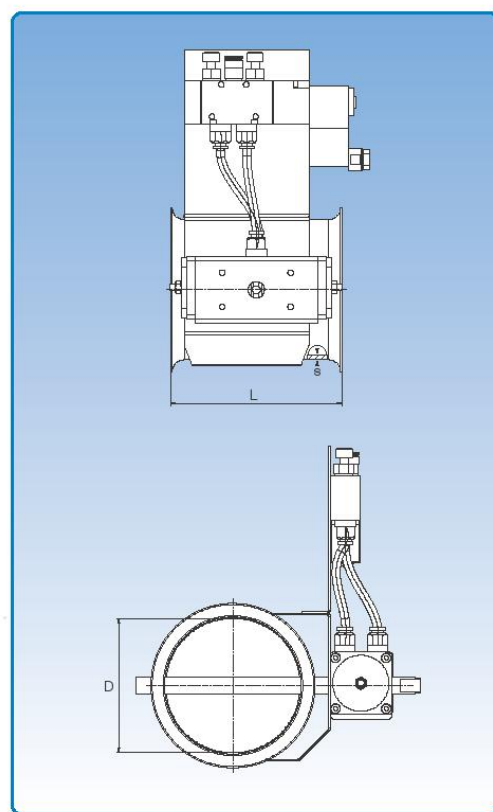
Throttle valves, ø80-ø400 mm galvanised, manually operated



Dimensional specifications			
D mm	s mm	L mm	Weight kg
80	0,90	125	0,65
100	0,90	125	0,75
120	0,90	135	0,90
125	0,90	135	0,95
140	0,90	170	1,15
150	0,90	170	1,25
160	0,90	170	1,35
180	0,90	210	1,90
200	0,90	210	2,20
225	0,90	240	2,55
250	0,90	265	3,05
275	0,90	290	3,50
300	0,90	315	4,30
315	0,90	330	4,30
350	0,90	365	4,95
400	0,90	415	6,90

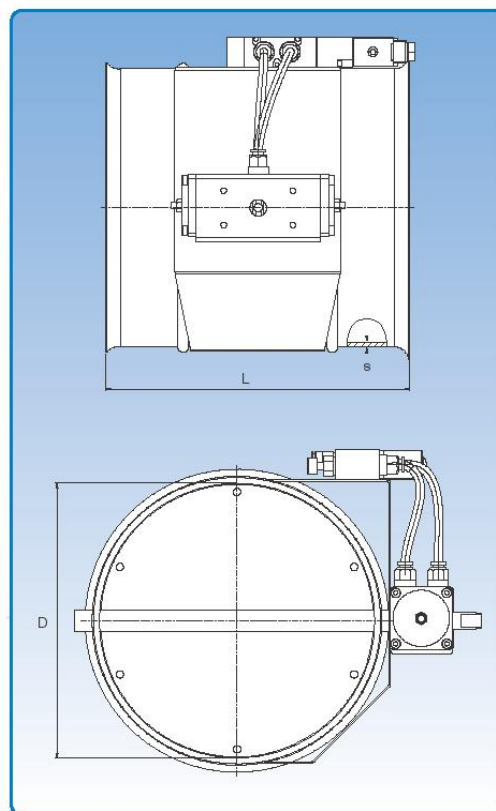
Throttle valves, ø80-ø160 mm galvanised, pneumatically operated

Dimensional specifications			
D mm	s mm	L mm	Weight kg
80	0,90	125	1,90
100	0,90	125	2,00
120	0,90	135	2,15
125	0,90	135	2,20
140	0,90	170	2,40
150	0,90	170	2,50
160	0,90	170	2,60



Throttle valves, ø180-ø400 mm galvanised, pneumatically operated

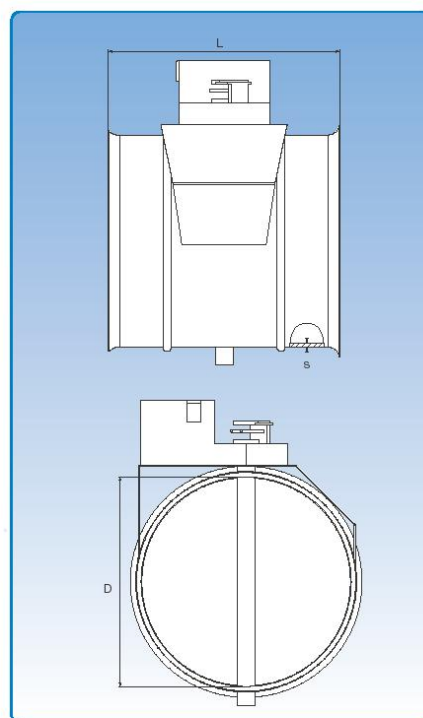
Dimensional specifications			
D mm	s mm	L mm	Weight kg
180	0,90	210	2,85
200	0,90	210	3,15
225	0,90	240	3,60
250	0,90	265	4,00
275	0,90	290	4,50
300	0,90	315	5,20
315	0,90	330	5,50
350	0,90	365	6,15
400	0,90	415	8,10



Dimensional specifications are given in the table below.

Throttle valves, ø180-ø400 mm galvanised, electrically operated

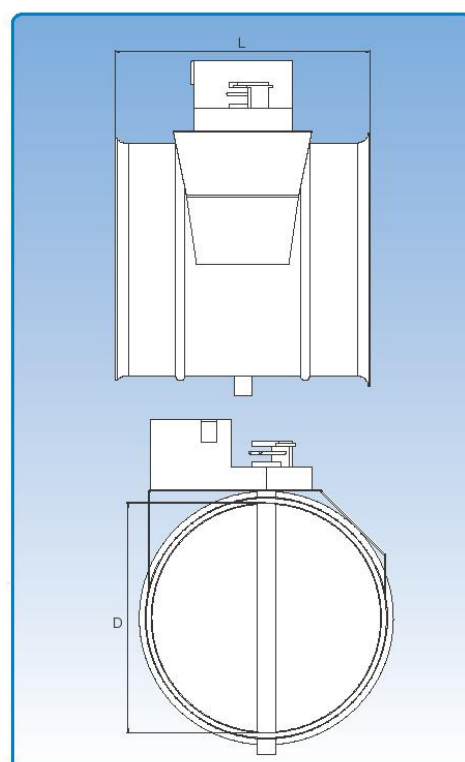
Dimensional specifications			
D mm	s mm	L mm	Weight kg
80	0,90	125	1,60
100	0,90	125	1,70
120	0,90	135	1,85
125	0,90	135	1,90
140	0,90	170	2,10
150	0,90	170	2,20
160	0,90	170	2,30



Dimensional specifications are given in the table below.

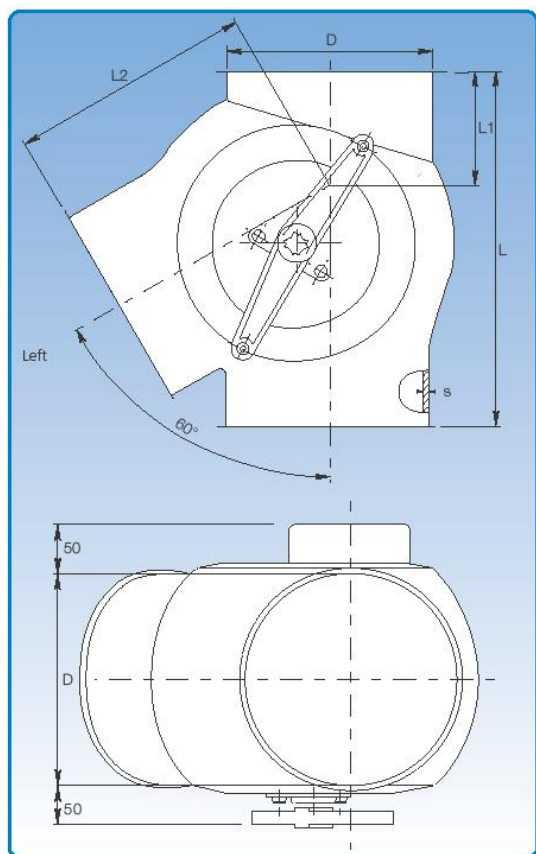
Throttle valves, ø180-ø400 mm galvanised, electrically operated

Dimensional specifications			
D mm	s mm	L mm	Weight kg
180	0,90	210	3,55
200	0,90	210	3,85
225	0,90	240	4,20
250	0,90	265	5,05
275	0,90	290	5,50
300	0,90	315	6,30
315	0,90	330	6,50
350	0,90	365	7,15
400	0,90	415	9,10



Dimensional specifications are given in the table below.

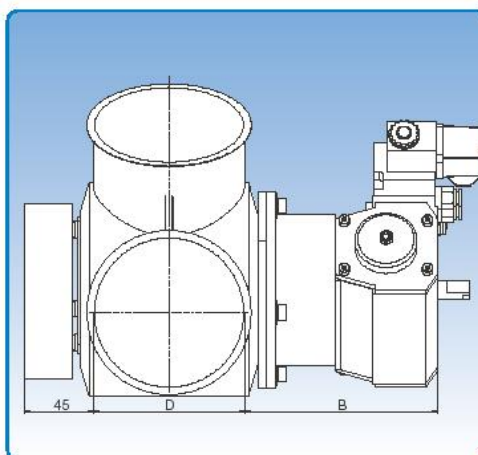
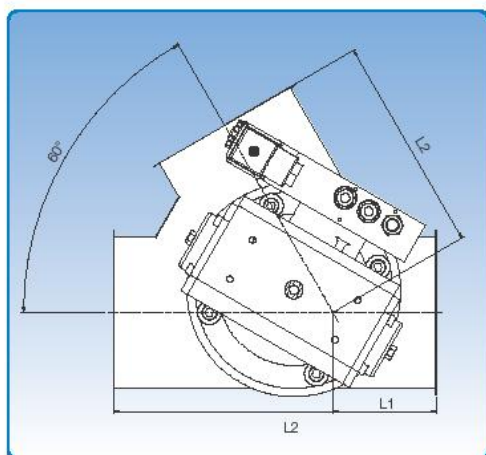
60° branch diverters, pressed, manually operated



Dimensional specifications are given in the table below.

Dimensional specifications					
D mm	s mm	L mm	L1 mm	L2 mm	Weight kg
100	1,50	210	70	145	2,20
120	1,50	400	160	240	6,00
125	1,50	260	90	170	4,00
150	2,00	290	100	190	5,70
160	2,00	320	95	225	6,10
180	2,00	510	195	315	11,00
200	2,00	345	110	230	8,30
250	2,00	415	135	270	13,10
300	2,00	475	160	325	19,30

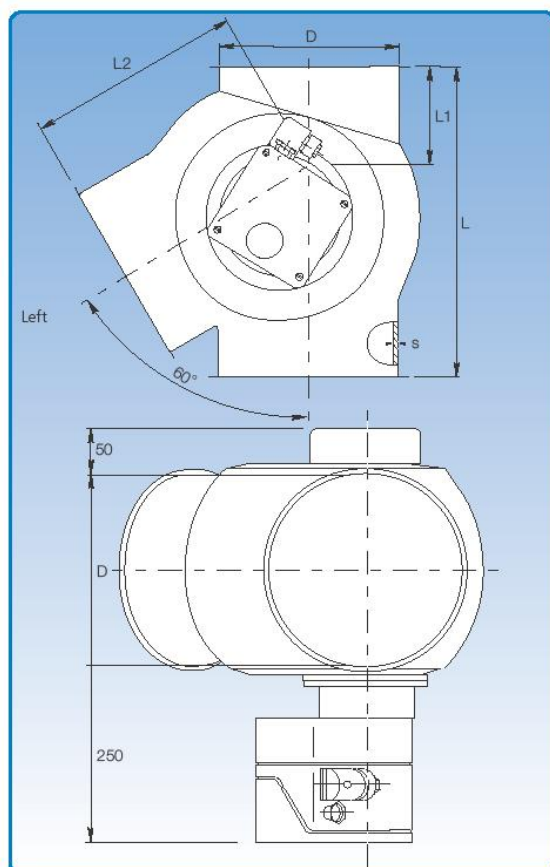
60° branch diverters, pressed, pneumatically operated



Dimensional specifications are given in the table below.

Dimensional specifications					
D mm	s mm	B mm	L1 mm	L2 mm	Weight kg
100	1,50	145	70	145	5,00
120	1,50	145	160	240	7,80
125	1,50	145	90	170	6,90
150	2,00	145	100	190	8,80
160	2,00	145	95	225	8,50
180	2,00	145	195	315	13,70
200	2,00	145	110	230	10,90
250	2,00	185	135	270	18,40
300	2,00	185	160	325	24,50

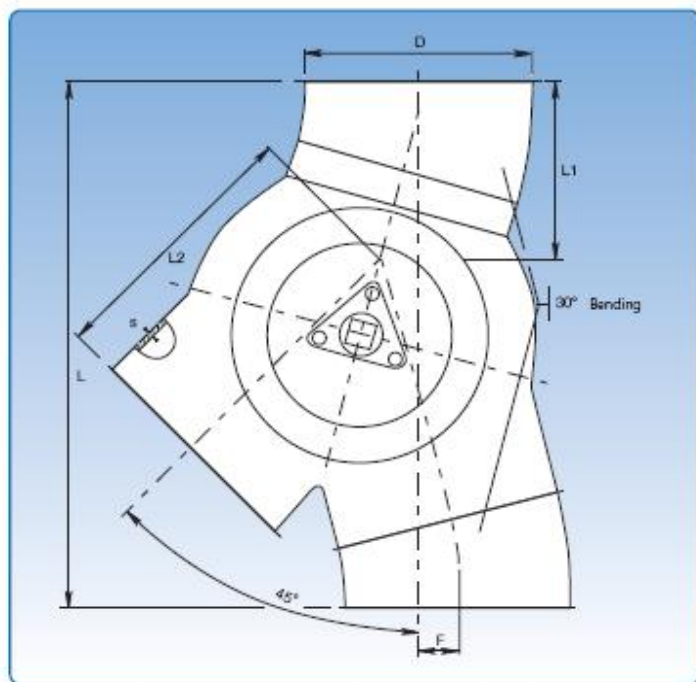
60° branch diverters, pressed, electrically operated



Dimensional specifications are given in the table below.

Dimensional specifications					
D mm	s mm	L mm	L1 mm	L2 mm	Weight kg
100	1,50	215	70	145	6,90
120	1,50	400	160	240	10,70
125	1,50	260	90	170	8,70
150	2,00	290	100	190	10,40
160	2,00	320	95	225	10,80
180	2,00	510	195	315	15,70
200	2,00	340	110	230	13,00
250	2,00	405	135	270	19,30
300	2,00	485	160	325	25,50

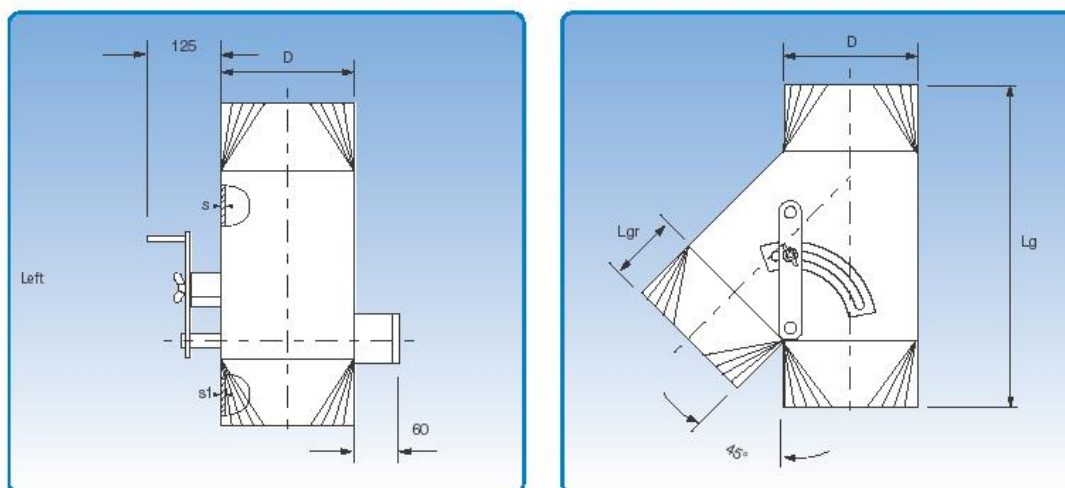
45° branch diverters, pressed, manually operated



Dimensional specifications are given in the table below.

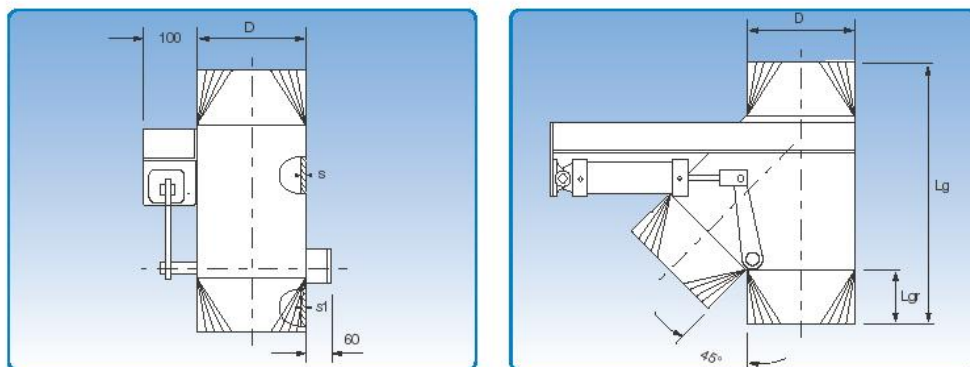
Dimensional specifications						
D mm	s mm	F mm	L mm	L1 mm	L2 mm	Weight kg
100	1,50	25	270	100	145	2,80
120	1,50	25	380	145	240	5,90
125	1,50	25	335	120	170	5,30
150	2,00	30	375	135	190	7,80
160	2,00	40	410	130	225	7,80
180	2,00	40	600	230	315	13,40
200	2,00	40	455	155	230	11,30
250	2,00	35	550	190	270	17,70
300	2,00	55	660	230	325	25,90

45° branch diverters, welded, manually operated



Dimensional specifications						
D mm	s mm	s1 mm	Damper mm	Lg mm	Lgr mm	Weight kg
100	3,00	2,00	4,00	360	105	2,55
120	3,00	2,00	4,00	400	110	3,15
125	3,00	2,00	4,00	400	110	3,25
150	3,00	2,00	5,00	495	145	4,55
160	3,00	2,00	5,00	495	145	4,65
180	3,00	2,00	5,00	560	145	8,40
200	3,00	2,00	5,00	560	145	8,45
250	3,00	2,00	5,00	855	250	14,10
300	3,00	2,00	5,00	940	250	19,25
350	3,00	2,00	6,00	1000	250	23,90
400	3,00	2,00	6,00	1170	295	36,45
450	4,00	3,00	6,00	1225	295	4,85
500	4,00	3,00	6,00	1315	295	53,65
550	4,00	3,00	6,00	1490	345	66,55

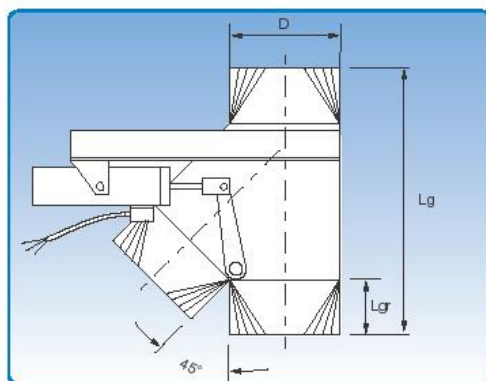
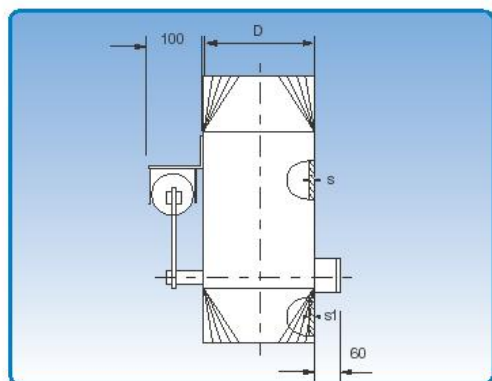
45° branch diverters, welded, pneumatically operated



Dimensional specifications are given in the table below.

Dimensional specifications						
D mm	s mm	s1 mm	Damper mm	Lg mm	Lgr mm	Weight kg
100	3,00	2,00	4,00	360	105	6,55
120	3,00	2,00	4,00	400	110	7,15
125	3,00	2,00	4,00	400	110	7,25
150	3,00	2,00	5,00	495	145	9,05
160	3,00	2,00	5,00	495	145	9,15
180	3,00	2,00	5,00	560	145	12,90
200	3,00	2,00	5,00	560	145	13,45
250	3,00	2,00	5,00	855	250	19,10
300	3,00	2,00	5,00	940	250	24,25
350	3,00	2,00	6,00	1000	250	28,90
400	3,00	2,00	6,00	1170	295	42,45
450	4,00	3,00	6,00	1225	295	46,85
500	4,00	3,00	6,00	1315	295	59,65
550	4,00	3,00	6,00	1490	345	74,55

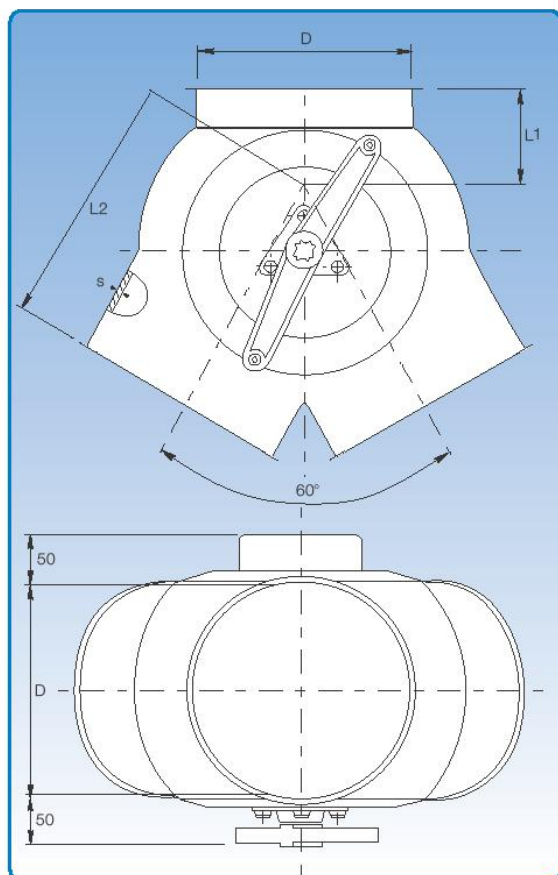
45° branch diverters, welded, electrically operated



Dimensional specifications are given in the table below.

Dimensional specifications						
D mm	s mm	s1 mm	Damper mm	Lg mm	Lgr mm	Weight kg
100	3,00	2,00	4,00	360	105	6,55
120	3,00	2,00	4,00	400	110	7,15
125	3,00	2,00	4,00	400	110	7,25
150	3,00	2,00	5,00	495	145	9,05
160	3,00	2,00	5,00	495	145	9,15
180	3,00	2,00	5,00	560	145	12,90
200	3,00	2,00	5,00	560	145	13,45
250	3,00	2,00	5,00	855	250	19,10
300	3,00	2,00	5,00	940	250	24,25
350	3,00	2,00	6,00	1000	250	28,90
400	3,00	2,00	6,00	1170	295	42,45
450	4,00	3,00	6,00	1225	295	46,85
500	4,00	3,00	6,00	1315	295	59,65
550	4,00	3,00	6,00	1490	345	74,55

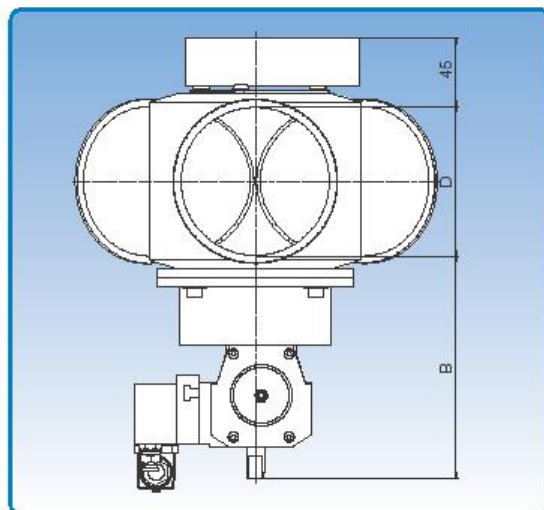
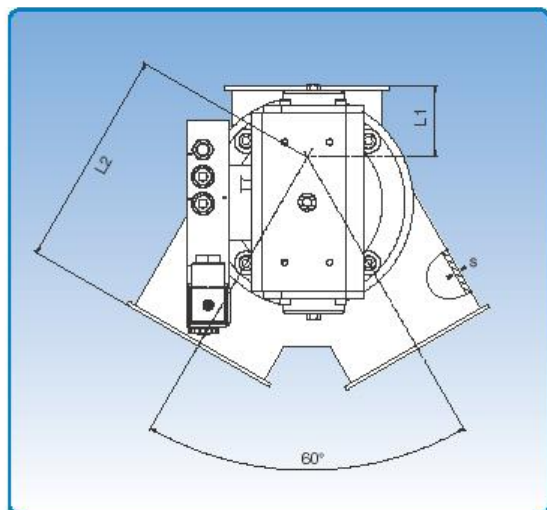
60° trouser diverters, pressed, manually operated



Dimensional specifications are given in the table below.

Dimensional specifications				
D mm	s mm	L1 mm	L2 mm	Weight kg
100	1,00	70	145	2,00
120	1,50	60	40	4,70
125	1,50	90	170	3,90
150	2,00	100	190	5,60
160	2,00	95	225	5,60
180	2,00	195	315	10,60
200	2,00	110	230	7,90
250	2,00	135	270	12,50
300	2,00	160	325	18,30

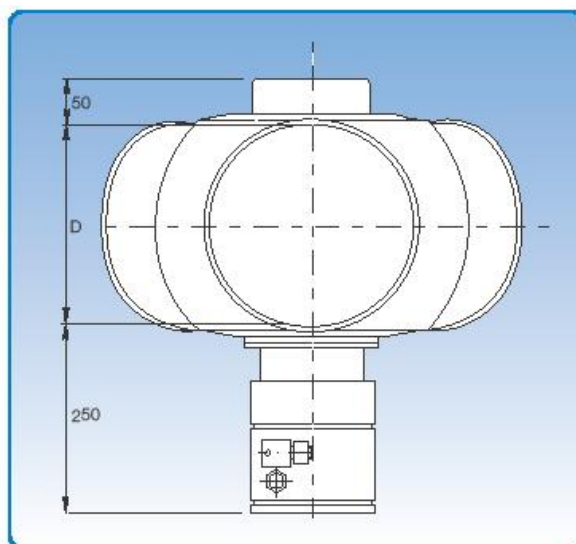
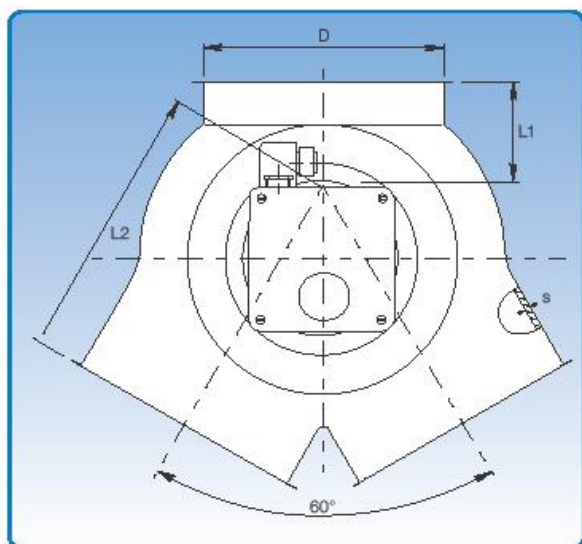
60° trouser diverters, pressed, pneumatically operated



Dimensional specifications are given in the table below.

Dimensional specifications					
D mm	s mm	B mm	L1 mm	L2 mm	Weight kg
100	1,50	145	70	145	5,20
120	1,50	145	160	240	9,00
125	1,50	145	90	170	7,00
150	2,00	145	100	190	8,70
160	2,00	145	95	225	9,10
180	2,00	145	195	315	14,00
200	2,00	145	110	230	11,30
250	2,00	185	135	270	19,00
300	2,00	185	160	325	25,20

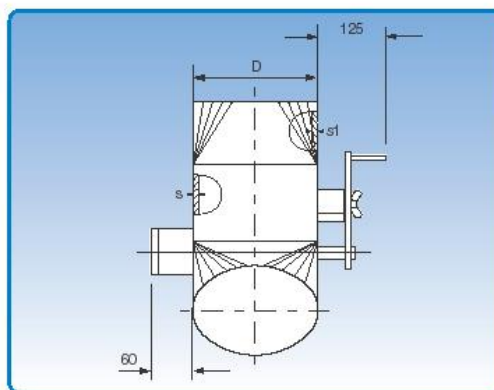
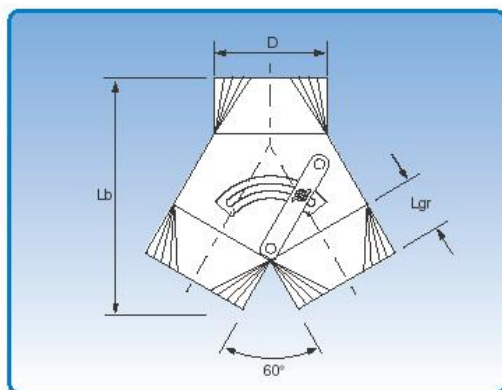
60° trouser diverters, pressed, electrically operated



Dimensional specifications are given in the table below.

Dimensional specifications				
D mm	s mm	L1 mm	L2 mm	Weight kg
100	1,50	70	145	6,70
120	1,50	160	240	9,40
125	1,50	90	170	8,60
150	2,00	100	190	10,50
160	2,00	95	225	10,30
180	2,00	195	315	15,30
200	2,00	110	230	12,60
250	2,00	135	270	18,70
300	2,00	160	325	24,50

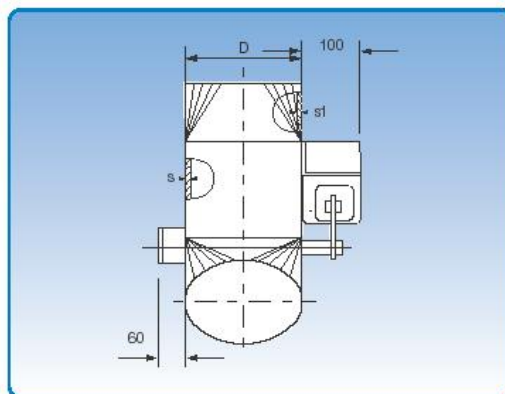
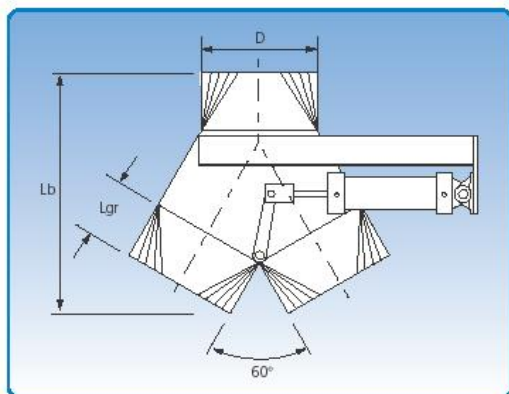
60° trouser diverters, welded, manually operated



Dimensional specifications are given in the table below.

Dimensional specifications						
D mm	s mm	s1 mm	Damper mm	Lb mm	Lgr mm	Weight kg
100	3,00	2,00	4,00	305	105	2,55
120	3,00	2,00	4,00	330	110	3,15
125	3,00	2,00	4,00	330	110	3,25
150	3,00	2,00	5,00	455	145	4,55
160	3,00	2,00	5,00	455	145	4,65
180	3,00	2,00	5,00	525	145	8,40
200	3,00	2,00	5,00	525	145	8,45
250	3,00	2,00	5,00	820	250	14,10
300	3,00	2,00	5,00	900	250	19,25
350	3,00	2,00	6,00	880	250	23,90
400	3,00	2,00	6,00	930	295	36,45
450	4,00	3,00	6,00	965	295	40,85
500	4,00	3,00	6,00	1040	295	53,65
550	4,00	3,00	6,00	1170	345	66,55

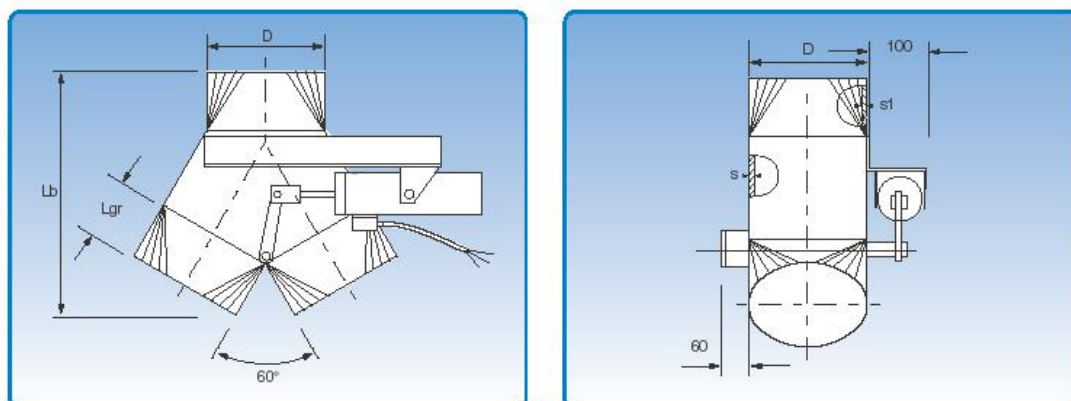
60° trouser diverters, welded, pneumatically operated



Dimensional specifications are given in the table below.

Dimensional specifications						
D mm	s mm	s1 mm	Damper mm	Lb mm	Lgr mm	Weight kg
100	3,00	2,00	4,00	360	105	6,55
120	3,00	2,00	4,00	400	110	7,15
125	3,00	2,00	4,00	400	110	7,25
150	3,00	2,00	5,00	495	145	9,05
160	3,00	2,00	5,00	495	145	9,15
180	3,00	2,00	5,00	560	145	12,90
200	3,00	2,00	5,00	560	145	13,45
250	3,00	2,00	5,00	855	250	19,10
300	3,00	2,00	5,00	940	250	24,25
350	3,00	2,00	6,00	1000	250	28,90
400	3,00	2,00	6,00	1170	295	42,45
450	4,00	3,00	6,00	1225	295	46,85
500	4,00	3,00	6,00	1315	295	59,65
550	4,00	3,00	6,00	1490	345	74,55

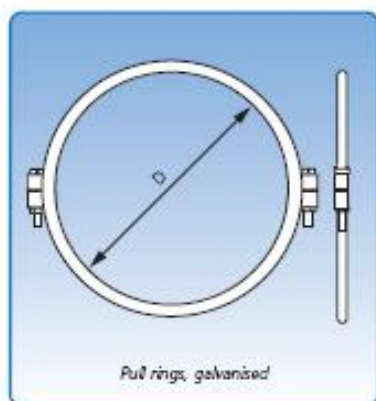
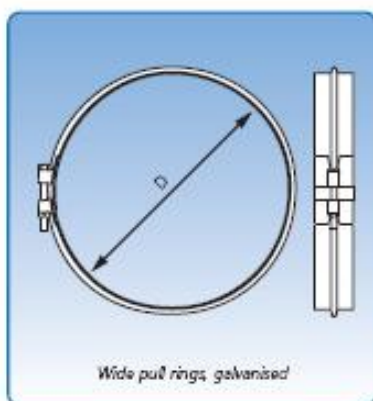
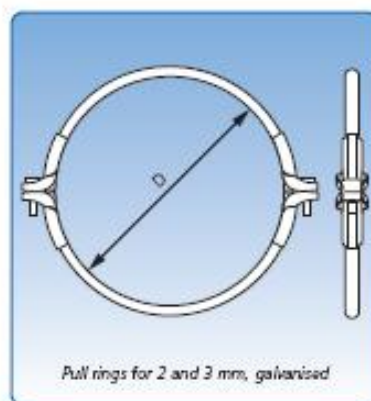
60° trouser diverters, welded, electrically operated



Dimensional specifications are given in the table below.

Dimensional specifications						
D mm	s mm	s1 mm	Damper mm	Lb mm	Lgr mm	Weight kg
100	3,00	2,00	4,00	305	105	6,55
120	3,00	2,00	4,00	330	110	7,15
125	3,00	2,00	4,00	330	110	7,25
150	3,00	2,00	5,00	455	145	9,05
160	3,00	2,00	5,00	455	145	9,15
180	3,00	2,00	5,00	525	145	12,90
200	3,00	2,00	5,00	525	145	13,45
250	3,00	2,00	5,00	820	250	19,10
300	3,00	2,00	5,00	900	250	24,25
350	3,00	2,00	6,00	880	250	28,90
400	3,00	2,00	6,00	930	295	42,45
450	4,00	3,00	6,00	965	295	46,85
500	4,00	3,00	6,00	1040	295	59,65
550	4,00	3,00	6,00	1170	345	74,55

Pull rings, galvanised

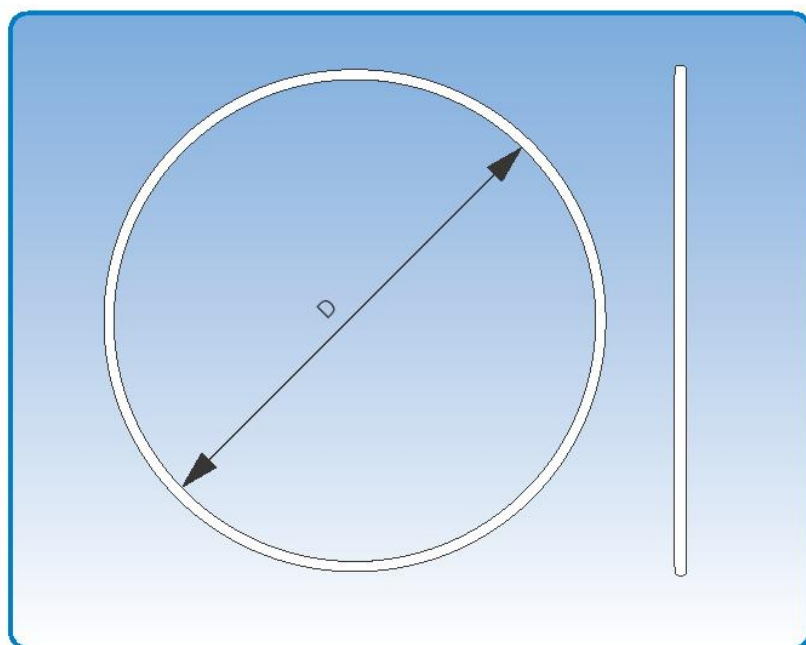

Diameter: $\varnothing 80 - \varnothing 500$ mm.

Diameter: $\varnothing 200 - \varnothing 650$ mm.

Diameter: $\varnothing 100 - \varnothing 600$ mm.

Pull rings, Galvanized	
D mm	Weight / 10 pcs. kg
80	0,55
100	0,60
120	0,65
125	0,70
140	0,75
150	0,80
160	0,83
180	0,85
200	0,90
225	0,95
250	1,00
275	1,05
300	1,25
315	1,30
350	1,35
400	1,45
450	1,65
450	1,65
500	1,90

Wide pull rings, Galvanized	
D mm	Weight / pcs. kg
200	0,25
225	0,30
250	0,35
275	0,40
300	0,45
315	0,47
350	0,50
400	0,55
450	0,60
500	0,65
550	0,70
600	0,75
630	0,78
650	0,80

Pull rings for 2 and 3 mm, galv.	
D mm	Weight / 10 pcs. kg
Insert: Rings of EPDM rubber	
100	1,87
120	2,04
125	2,21
150	2,38
160	2,55
180	2,72
200	2,83
250	3,40
300	3,57
Terostat insert	
315	4,25
350	4,42
400	4,93
450	5,61
500	6,46
550	7,14
600	8,50

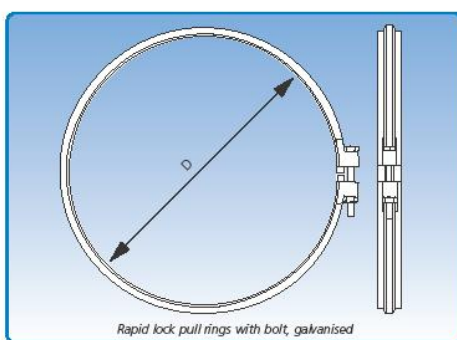
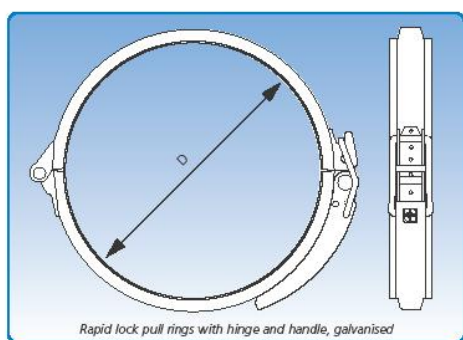
Rubber gasket rings and insert with sealing compound



Dimensional specifications are given in the table below.

Dimensional specifications	
D	Weight / 10 pcs.
mm	kg
80	0,02
100	0,03
120	0,04
125	0,04
140	0,05
150	0,06
160	0,07
180	0,08
200	0,09
225	0,10
250	0,11
275	0,12
300	0,13

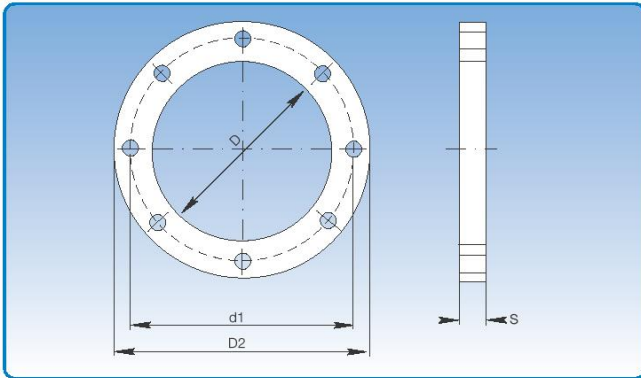
Rapid lock pull rings with hinge and handle, galvanised



Rapid lock pull rings with hinge and handle, Galvanized	
D mm	Weight / 10 pcs. kg
80	2,00
100	2,30
120	2,40
125	2,45
140	2,50
150	2,50
160	2,60
180	2,60
200	3,30
225	3,40
250	3,80
300	4,25
315	4,40
350	4,90
400	5,25

Rapid lock pull rings with bolt, Galvanized	
D mm	Weight / 10 pcs. kg
450	6,00
500	6,50
550	7,00
600	7,50

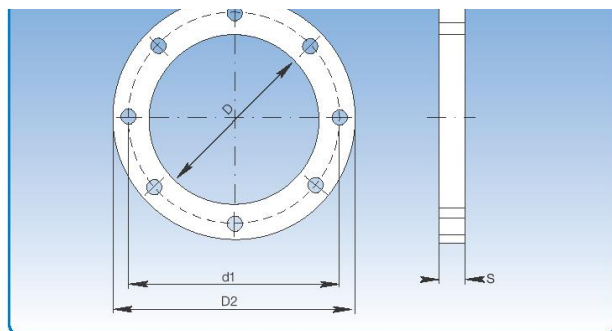
Flanges



Dimensional specifications are given in the table below.

Dimensional specifications								
Diameter nominal	D mm	d1 mm	D2 mm	s mm	Width of flange mm	Size of hole mm	Number of holes	Weight kg
80	83	115	133	3,00	25	9	8	0,263
100	103	135	153	3,00	25	9	8	0,313
120	123	155	173	3,00	25	9	8	0,362
125	128	160	178	3,00	25	9	8	0,378
140	143	175	193	3,00	25	9	8	0,412
150	155	185	205	5,00	25	9	8	0,565
160	165	195	215	5,00	25	9	8	0,576
180	185	215	235	5,00	25	9	8	0,638
200	205	235	255	5,00	25	9	12	0,700
225	230	260	280	5,00	25	9	12	0,750
250	255	285	305	5,00	25	9	12	0,854
275	280	310	330	5,00	25	9	12	0,958
300	305	336	355	5,00	25	9	12	1,008
315	320	351	370	5,00	25	9	12	1,258
350	355	389	415	6,00	26	11	12	1,839
400	405	439	465	6,00	30	11	16	2,080
450	455	489	515	6,00	30	11	16	2,321
500	505	540	565	6,00	30	11	16	2,561
550	535	590	615	6,00	30	11	16	2,802
600	605	640	665	6,00	30	11	16	3,043
630	635	670	695	6,00	30	11	24	3,188
650	655	690	715	6,00	30	11	24	3,284
700	705	750	785	6,00	40	11	24	3,525
750	755	800	835	6,00	40	11	24	5,085
800	805	850	885	6,00	40	11	24	5,406
850	855	900	935	6,00	40	11	24	5,727
900	905	950	985	6,00	40	11	24	6,048
950	955	1000	1035	6,00	40	11	24	6,370
1000	1005	1050	1085	6,00	40	11	24	6,691
1250	1255	1300	1335	6,00	40	11	28	6,850

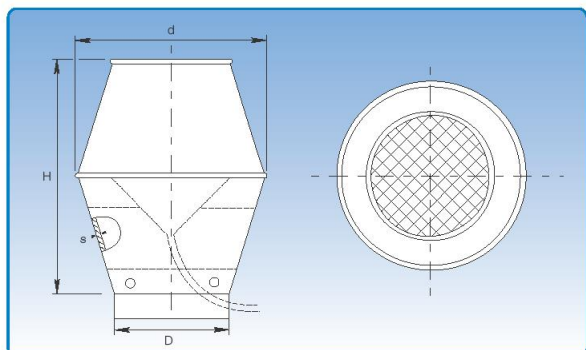
Rubber flanges



Dimensional specifications are given in the table below.

Dimensional specifications								
Diameter nominal	D mm	d1 mm	D2 mm	s mm	Width of flange mm	Size of hole mm	Number of holes	Weight kg
80	83	115	133	3,00	25	8	8	0,039
100	103	135	153	3,00	25	8	8	0,044
120	123	155	173	3,00	25	8	8	0,048
125	128	160	178	3,00	25	8	8	0,049
140	143	175	193	3,00	25	8	8	0,052
150	155	185	205	3,00	25	8	8	0,058
160	165	195	215	3,00	25	8	8	0,061
180	185	215	235	3,00	25	8	8	0,069
200	205	235	255	3,00	25	8	12	0,075
225	230	260	280	3,00	25	8	12	0,086
250	255	285	305	3,00	25	8	12	0,095
275	280	310	330	3,00	25	8	12	0,102
300	305	336	355	3,00	25	8	12	0,107
315	320	351	370	3,00	25	8	12	0,125
350	355	389	415	3,00	26	10	12	0,146
400	405	439	465	3,00	30	10	16	0,179
450	455	489	515	3,00	30	10	16	0,205
500	505	540	565	3,00	30	10	16	0,218
550	535	590	615	3,00	30	10	16	0,245
600	605	640	665	3,00	30	10	16	0,290
630	635	670	695	3,00	30	10	24	0,331
650	655	690	715	3,00	30	10	24	0,352
700	705	750	785	3,00	40	10	24	0,384
750	755	800	835	3,00	40	10	24	0,405
800	805	850	885	3,00	40	10	24	0,422
850	855	900	935	3,00	40	10	24	0,455
900	905	950	985	3,00	40	10	24	0,492
950	955	1000	1035	3,00	40	10	24	0,532
1000	1005	1050	1085	3,00	40	10	24	0,572
1250	1255	1300	1335	3,00	40	10	28	0,622

Jet caps, galvanised

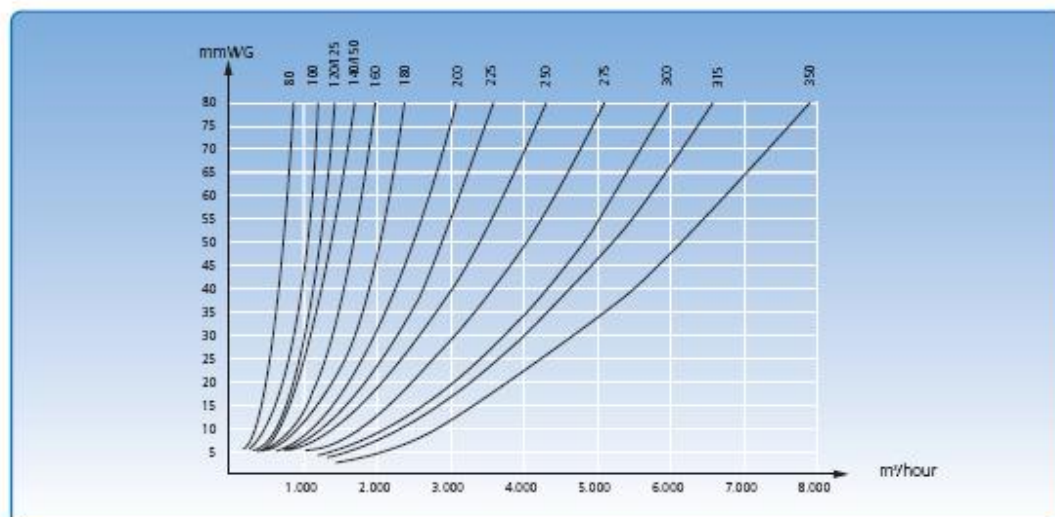


Dimensional specifications are given in the table below.

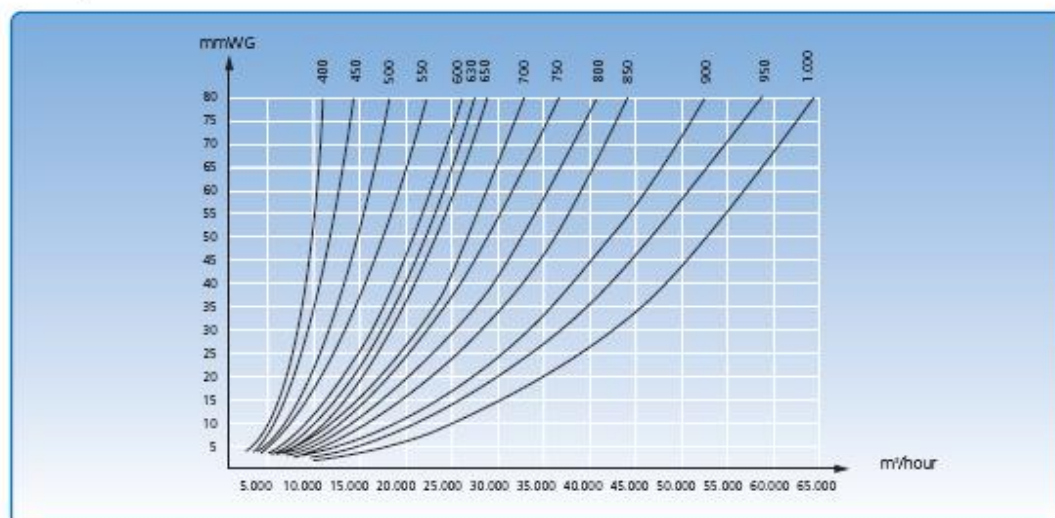
Dimensional specifications				
D mm	d mm	s mm	H mm	Weight kg
80	140	0,75	260	1,0
100	165	0,75	280	1,5
120	185	0,75	325	1,8
125	195	0,75	340	2,0
140	215	0,75	36	2,3
150	230	0,90	390	2,5
160	245	0,90	410	3,0
180	275	0,90	445	3,5
200	305	0,90	490	4,0
225	345	0,90	535	5,0
250	380	0,90	590	6,0
275	420	0,90	640	7,0
300	460	0,90	690	8,0
315	480	0,90	720	9,0
350	535	0,90	785	10,0
400	610	0,90	885	15,0
450	690	0,90	985	18,0
500	765	0,90	1095	24,0
550	840	0,90	1200	29,0
600	915	0,90	1300	32,0
630	960	0,90	1360	35,0
650	990	0,90	1390	37,0
700	1070	1,25	1505	58,5
750	1145	1,25	1595	67,0
800	1220	1,25	1695	75,5
850	1295	1,25	1795	86,0
900	1375	1,25	1900	96,0
950	1450	1,25	1975	105,0
1000	1525	1,25	2000	117,0

Jet caps, galvanised

Technical data

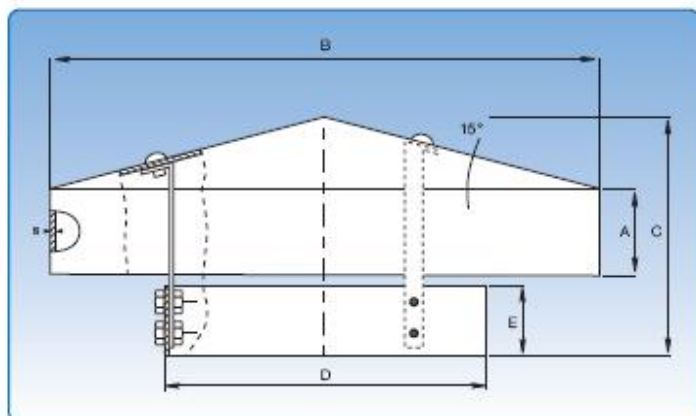


Pressure drop curves for diameter ø80 - ø350 mm.



Pressure drop curves for diameter ø400 - ø1000 mm.

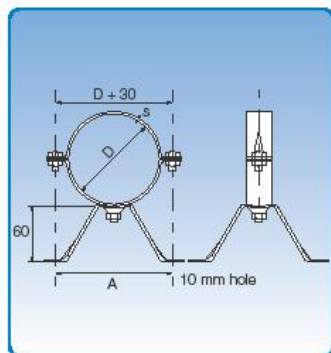
Rain caps, galvanised



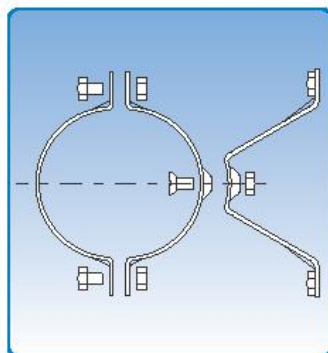
Dimensional specifications are given in the table below.

Dimensional specifications						
D mm	s mm	B mm	C mm	D mm	E mm	Weight kg
80	0,90	200	130	50	75	1,30
100	0,90	200	130	50	75	1,35
120	0,90	250	150	50	75	1,40
125	0,90	250	150	50	75	1,50
140	0,90	350	190	50	100	1,90
150	0,90	350	190	50	100	1,95
160	0,90	350	190	50	100	2,10
180	0,90	400	220	50	100	2,50
200	0,90	400	220	50	100	2,55
225	0,90	500	240	50	100	2,60
250	0,90	500	240	50	100	3,00
275	0,90	500	240	50	100	3,30
300	0,90	650	340	100	150	5,20
315	0,90	650	340	100	150	5,30
350	0,90	650	340	100	150	5,90
400	0,90	750	371	100	150	8,10
450	0,90	750	370	100	150	8,20
500	0,90	950	440	150	150	9,90
550	0,90	950	440	150	150	10,50
600	0,90	1050	480	150	150	13,90
630	0,90	1050	480	150	150	14,00
650	0,90	1050	480	150	150	14,10
700	0,90	1200	570	200	200	21,40
750	0,90	1200	570	200	200	21,70
800	1,25	1400	610	200	200	25,60
850	1,25	1400	610	200	200	25,80
900	1,25	1550	680	250	200	29,50
950	1,25	1550	680	250	200	29,80
1000	1,25	1700	720	250	200	35,90
1100	1,25	1850	745	250	200	39,80
1250	1,25	2000	765	250	200	44,50

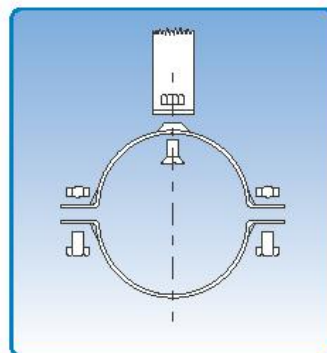
Clip bands, galvanised



With legs



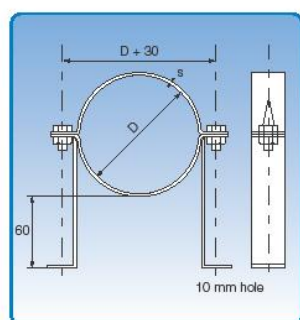
For wall mounting



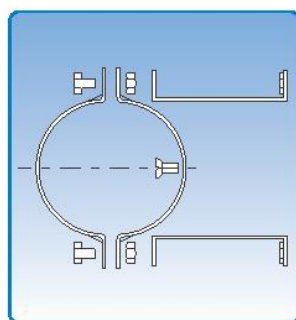
Suspended

Dimensional specifications			
D mm	A mm	s mm	Weight kg
80	132	2,00	0,10
100	132	2,00	0,12
120	132	2,00	0,15
125	132	2,00	0,16
140	132	2,00	0,18
150	132	2,00	0,20
160	132	2,00	0,22
180	210	2,00	0,24
200	210	2,00	0,26
225	210	2,00	0,28
250	210	2,00	0,30
275	210	2,00	0,32
300	210	2,00	0,34
315	210	2,00	0,35

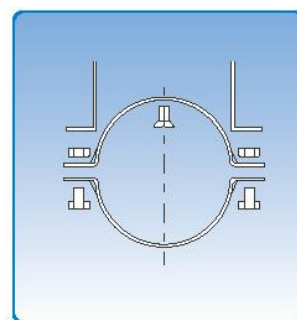
Clip bands, galvanised/primed, heavy design



With legs



For wall mounting

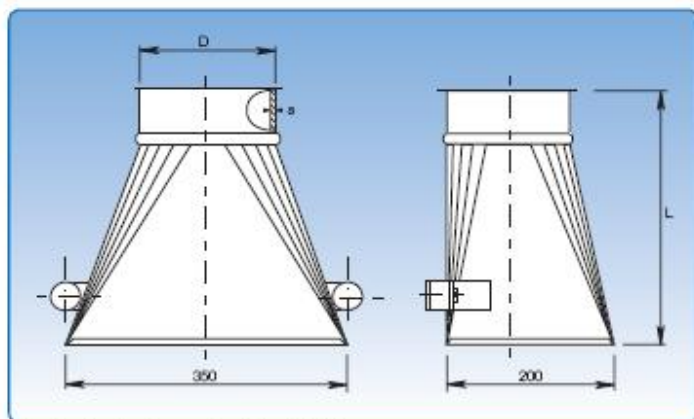


Suspended

Dimensional specifications

D mm	Galvanized		D mm	Primed
	s mm	Weight kg		Weight kg
250	-	-	5	1,55
300	-	-	5	1,70
325	3,00	1,80	-	-
350	3,00	1,95	6	2,15
375	3,00	2,20	-	-
400	3,00	2,50	6	3,60
425	3,00	2,65	-	-
450	3,00	2,80	6	4,25
500	3,00	3,00	6	4,70
550	3,00	3,35	6	5,10
600	3,00	3,60	6	5,40
630	3,00	3,70	6	6,10
650	3,00	3,85	6	6,30
700	3,00	4,00	6	7,45
750	3,00	4,35	6	8,60
800	3,00	4,80	6	9,65

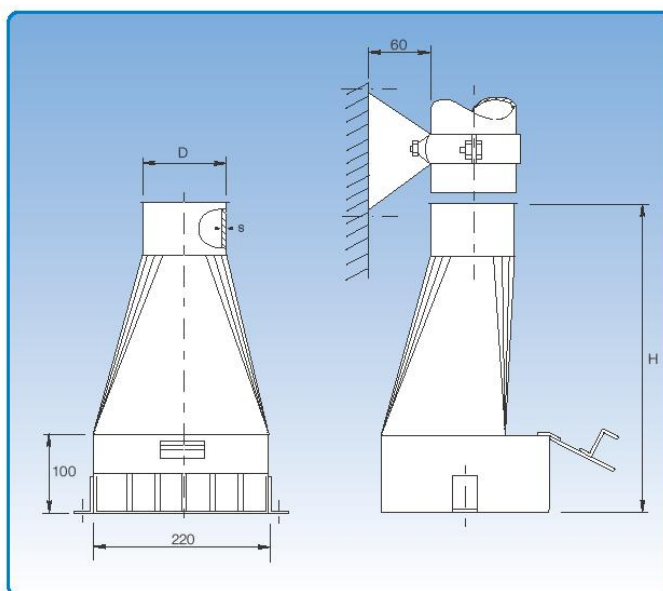
Screens for cutting, galvanised



Dimensional specifications are given in the table below.

Dimensional specifications			
D mm	s mm	L mm	Weight kg
100	0,90	310	1,50
120	0,90	310	1,75
140	0,90	310	2,00
150	0,90	310	2,25

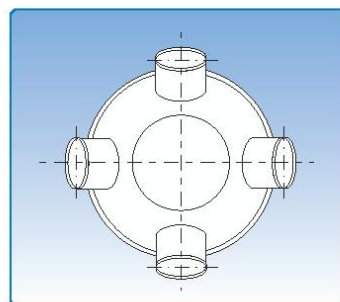
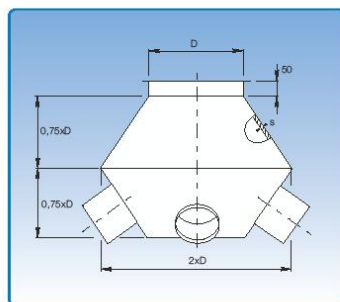
Sweep ups, galvanised



Dimensional specifications are given in the table below.

Dimensional specifications			
D mm	s mm	H mm	Weight kg
100	0,90	390	1,50
120	0,90	390	2,00
140	0,90	390	2,50
150	0,90	390	3,00

Sputniks, galvanised

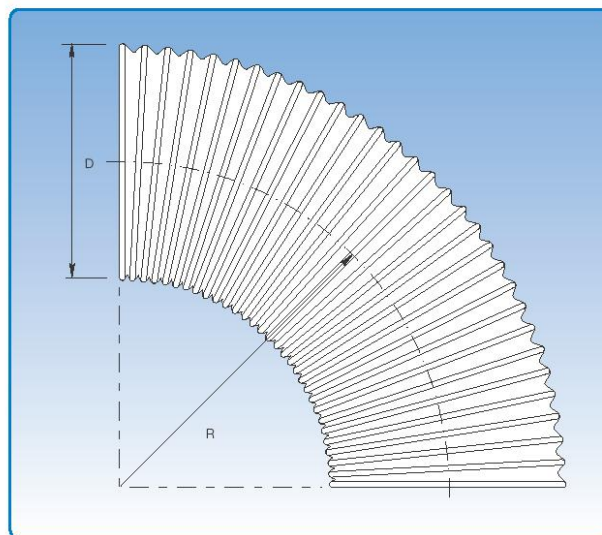


Dimensional specifications are given in the table below.

Dimensional specifications		
D mm	s mm	Weight kg
80	0,90	1,28
100	0,90	1,60
120	0,90	2,00
125	0,90	2,60
150	0,90	3,27
160	0,90	4,09
180	0,90	5,12
200	0,90	6,40
250	0,90	8,00
300	0,90	10,00
315	0,90	12,00
350	0,90	14,50
400	0,90	17,40
450	0,90	21,00
500	0,90	25,00

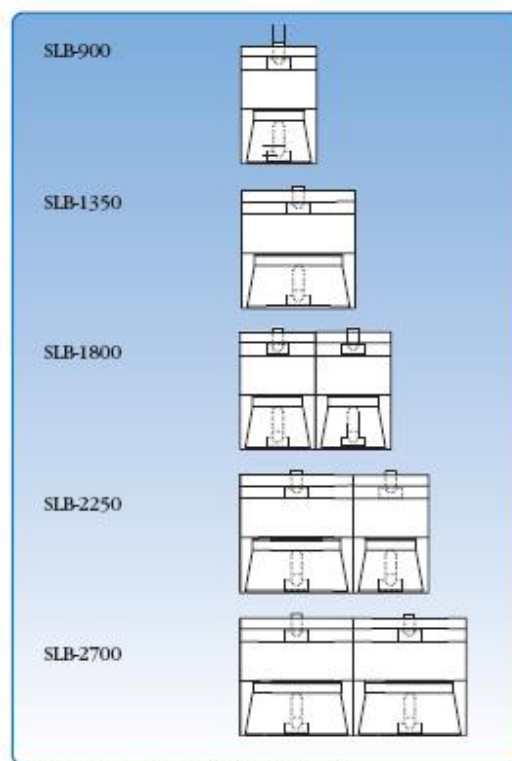
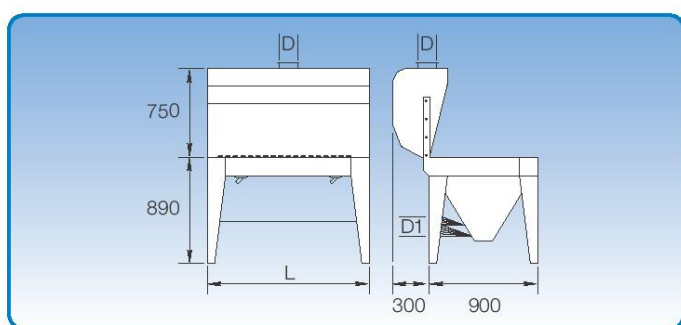
Purflex hoses

Dimensional specifications		
D mm	R mm	Weight kg / m
50	160	0,9
60	180	0,9
65	180	1,0
70	200	1,0
80	250	1,3
90	300	1,6
100	318	1,7
120	350	1,9
125	380	1,9
130	380	2,0
140	400	2,1
150	450	2,4
160	500	2,7
180	500	2,9
200	500	3,0
250	550	3,4
300	550	3,8



Dimensional specifications are given in the table below.

Sander tables, galvanised



Dimensional specifications are given in the table below:

Dimensional specifications						
Type	L mm	D mm	D1 mm	Primary suction m ³ / h	Suction below table m ³ / h	Weight kg
SLB-900	900	125	125	1200	1200	79
SLB-1350	1350	160	150	1800	1200	96
SLB-1800	1800	2 x 125	2 x 125	2400	2400	160
SLB-2250	2250	160 and 125	150 and 125	3000	2400	176
SLB-2700	2700	2 x 160	2 x 150	3600	2400	195