



Healthy Business

Dustcontrol

Tubing System

The tubing system transports the material from the point of collection to the central unit. Dustcontrol has a very comprehensive assortment of tubing fittings and installation hardware. This gives greater flexibility in design and installation of our tubing systems. Our mechanical jointing system makes alterations and additions very easy to implement.

About Tubing System

The tubing system transports the material from the point of collection to the central unit. Dust is generally abrasive, some more than others, therefore the standard material thickness of the tubing system is 1.5 mm. Applications with fume and light dust use reinforced spiral duct. Stainless tubing systems and extra abrasion resistant fittings are available.

Dustcontrol has a very comprehensive assortment of tubing fittings and installation hardware. This gives greater flexibility in design and installation of our tubing systems. Our mechanical jointing system makes alterations and additions very easy to implement.

Bends and branch pipes are designed to withstand high negative pressure. The bends are designed with a radial ridge to spread the impact area of the material thereby reducing wear and minimising the risk of blockage.

An effective tubing system has to meet certain requirements. Constant transport velocity in the tubing at different loads is one requirement. Correct transport velocity is another. When the velocity is too low, the material will cause a blockage. When the velocity is too high, this will lead to unnecessary wear and loss of energy. Dustcontrol's competent staff can dimension a system to your needs.

Tubing System Details

Steel Tubing

Our standard tubing system is of zinc coated carbon steel tubing and is used on 90 % of all Dustcontrol installations. Heavy wall thickness results in long life even in installations where considerable abrasion is present.

Stainless Steel Tubing

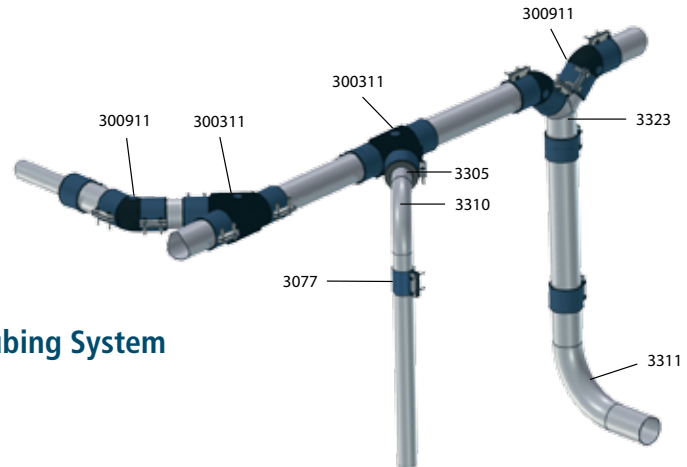
Stainless tubing is used with abrasive materials or because of hygienic considerations. When installed in material transportation, long radius bends should be used.

Reinforced Spiro Tubing

Spiro tubing is used most commonly for the connection of the central unit components, vacuum producer, filter unit and pre-separator. Spiro is not generally suitable for application with coarse and abrasive material but is commonly used in extraction systems for vapour, fume and light dust.

Mounting Hardware

Dustcontrol has a complete range of mounting hardware facilitating straightforward installation as well as changes



Elastomer Tubing System



Transport of

Transport of	Air Flow m³/h	Tube dimension mm	Description
Dust, coarse	(100-260	Ø 50)*	Steel Tubing
and heavy material	300-600	Ø 76	Steel Tubing
20-40 m/s	600-1200	Ø 108	Steel Tubing
	1200-2600	Ø 159	Steel Tubing
Fume, vapour	180-320	Ø 76	Steel Tubing
and clean air	320-550	Ø 100	Reinforced Spiral Tubing
12-20 m/s	370-620	Ø 108	Steel Tubing
	510-850	Ø 125	Reinforced Spiral Tubing
	840-1400	Ø 159 / Ø160	Steel Tubing/ Reinforced Spiral Tubing
	1300-2200	Ø 200	Reinforced Spiral Tubing
	2100-3500	Ø 250	Reinforced Spiral Tubing

*) On most systems, 76 mm should be selected as the smallest tube diameter. Only systems where a small air-flow is desired or installation is more easily facilitated should 50 mm be used.

Tubing System Details

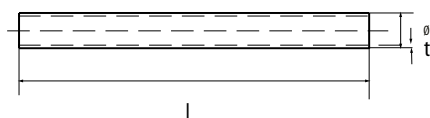
When transporting material in a tubing system turbulent flow will cause noise. Material particles impact the hard tubing walls. Using an elastomer (EPDM- and NBR-rubber) in bends, branch pipes and mounting brackets moderates the sound considerably. Every elastomer bend and branch pipe are designed with a plugged hole that can be used for measuring and inspection.

Cones, branch pipes and bends are manufactured in EPDM- and NBR-rubber. The components are abrasion resistant and sound absorbing.

Steel Tubing System

Dustcontrol pipes are zinc coated carbon steel.
The material density gives the pipes a long life.

Tubing

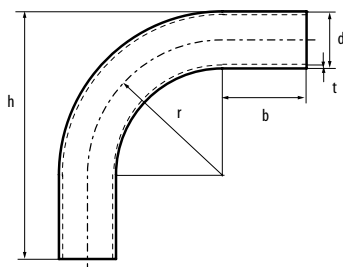


Part No.	Desc	Ø	l (m)	t	m (kg)
3071	Ø 50	50.8	3	1.5	1.8
3340**	Ø 50	50.8	0.135	1.5	1.8
3004*	Ø 76	76	3	1.5	2.6
3341**	Ø 76	76	0.135	1.5	2.6
3039*	Ø 108	108	3	2.0	3.9
3342**	Ø 108	108	0.135	1.5	3.9
3060	Ø 159	159	3	1.5	7.7

*) Full handle of 6 m lengths: Ø 76 - Part No 3278 (total 144 m); Part No 3279 (total 114 m)

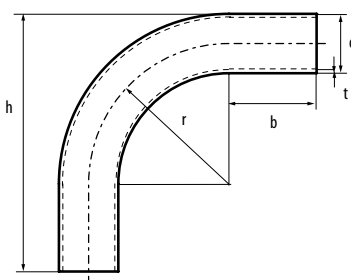
**) Tube stub required when mounting a 45 bend directly to a branch pipe (only in polymer system)

Bend 90°



Part No.	Desc	Ø	r	b	h	t	m (kg)
3310	Ø 50	50.8	120	75	220	1.5	0.6
3309	Ø 50	50.8	85	75	185	1.5	0.3
3117	Ø 50	50.8	50	-	115	1.5	0.3
3118	Ø 76	76	65	-	150	1.5	0.6
3311	Ø 76	76	160	180	313	1.5	1.3
3005	Ø 76	76	175	-	213	2.9	1.45
3319	Ø 108	108	160	165	380	2.0	3.0
3061	Ø 159	159	375	-	455	4.5	10.1

Bend 90°, extended



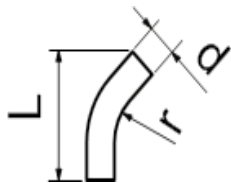
Part No	Desc	Ø	r	b	t	m (kg)
3169	Ø 76	76	175	150	2.9	3.0
3165	Ø 108	108	250	150	3.6	6.5
3161	Ø 159	159	375	150	4.5	15.3

All measurements are in millimetres if nothing else is given.

Steel Tubing System

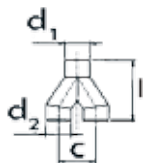
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Bend 45°



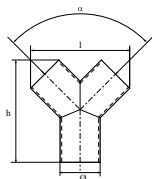
Part No	Desc	Ø	r	l	t
3312	Ø 50	50			
3317	Ø 76	76	160	333	1.5
3009	Ø 76	76	175	78	2.9
3321	Ø 108	108	160	433	2.0
3073	Ø 159	159	375	166.5	4.5

Split pipe



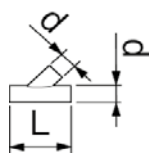
Part No	Desc	Ø ₁	d ₂	c	h	t	m (kg)
3067	Ø 159 /159	159	159	230	458	2.0	6.0

Y-pipe



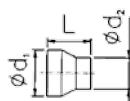
Part No	Desc	Ø	α	l	h	t	m (kg)
3324	Ø 50	50.8	90°	150	175	1.5	0.4
3323	Ø 76	76	90°	190	195	1.5	0.7
3322	Ø 108	108	90°	235	225	2.0	1.4
3066	Ø 159	159	180°	850	485	2.0	6.0

Branch pipe



Part No.	Desc.	Ø	α	l	t
3074	Ø 50	51	45°	170	1.5
3003	Ø 76	76	45°	245	1.5
3357	Ø 108	108	45°	267	1.5
3065	Ø 159/76	159/76	30°	390	2.0
3064	Ø 159 /108	159 /108	30°	390	2.0
3063	Ø 159	159	45°	400	2.0
3036	Ø 108/76	108/76	45°	300	1.5

Cone



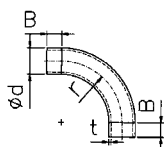
Part No.	Desc.	Ø d ₁	Ø d ₂	l	t	m (kg)
3197	Ø 80 /76	80	76	70	2.0	0,2
3030	Ø 108 /76	108	76	95	1.0	0.15
3078	Ø 76/50	76	50	95	1.0	0.15

For other dimensions: See also polymer-pipe system – Cone.

Steel Tubing System

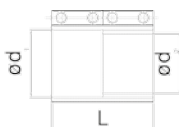
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Abrasion resistant bend 90°



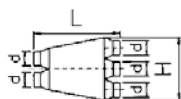
Part No	Desc	\varnothing	r	b	t	m (kg)
3235	\varnothing 76	87	175	50	7.0	5.0
3234	\varnothing 108	121	250	50	5.5	10.6

Joint abrasion resistant bend



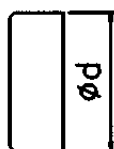
Part No	Desc	$\varnothing d_1$	$\varnothing d_2$	l	m (kg)
3243	\varnothing 76	87	76	130	0.5
3244	\varnothing 108	121	108	130	0.7

Pressure distributor box



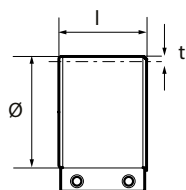
Part No	Desc	$\varnothing d$	b	l	h	m (kg)
3057	3/2	108	110	650	472	10.0
3058	2/2	108	110	550	315	7.0

End cap for steel tubing



Part No	Desc	$\varnothing d$
3172	\varnothing 50	50.8
3174	\varnothing 76	76
3906	\varnothing 108	108

Joint



Part No EPDM	Part No NBR	Desc	d	l	t	m (kg)
3077**	3271*	\varnothing 50	50.8	65	4.5	0.2
3007**	3272*	\varnothing 76	76	65	5.0	0.3
3031**	3273*	\varnothing 108	108	65	5.5	0.4
3045**	3274*	\varnothing 159	159	65	6.5	0.5

*) Oil resistant

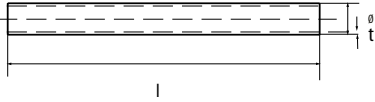
**) Antistatic

All measurements are in millimetres if nothing else is given.

Stainless Steel Tubing System

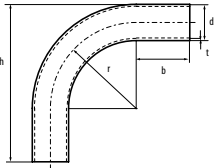
Stainless tubing is used with abrasive materials or due to hygenic considerations.

Tubing



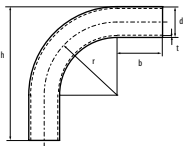
Part No	Desc	Ø	l (m)	t	m (kg/m)
3211	Ø 50	50.8	3	1.0	1.3
3212*	Ø 76	76	3	1.0	1.9
3267	Ø 108	108	3	1.0	5.2
3227	Ø 159	159	3	1.0	4.0

Bend 90°



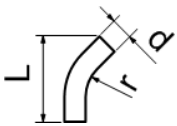
Part No	Desc	Ø	r	b	h	t	m (kg)
3314	Ø 50	50,8	120	75	220	1.5	0.6
3316	Ø 76	76	160	180	313	1.5	1.3
3320	Ø 108	108	160	165	380	2.0	3.0
3262	Ø 159	159	87	90	260	1.0	1.8

Bend 90° extended



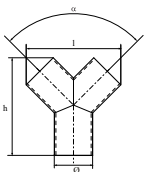
Part No	Desc	Ø	r	b	t	m (kg)
3266	Ø 76	76	460	-	2.0	3.2
3303	Ø 108	108	800	150	2.0	10.0
3314	Ø 150	50	120	220	1,5	0.55

Bend 45°



Part No	Desc	Ø	r	l	t
3318	Ø 76	76	160	333	1.5
3315	Ø 108	108	160	433	2.0

Y-tubing

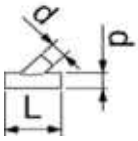


Part No	Desc	Ø	α	l	h	t	m (kg)
3331	Ø 50	50.8	90°	150	175	1.5	0.4
3330	Ø 76	76	90°	190	195	1.5	0.7
3329	Ø 108	108	90°	235	225	2.0	1.4

Stainless Steel Tubing System

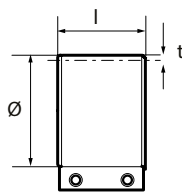
Stainless tubing is used with abrasive materials or due to hygienic considerations.

Branch pipe



Part No	Desc	$\varnothing d_1$	$\varnothing d_2$	l	α	t
3199	$\varnothing 76/76$	76	76	245	45°	1.5
3358	$\varnothing 108/108$	108	108	267	45°	1.5
3210	$\varnothing 50/50$	50	50	170	45°	1.5

Joint



Part No NBR	Desc	d	l	t	m (kg)
307702*	$\varnothing 50$	50.8	65	4.5	0.2
300702*	$\varnothing 76$	76	65	5.0	0.3
303102*	$\varnothing 108$	108	65	5.5	0.4
304502*	$\varnothing 159$	159	65	6.5	0.5

*) Material EPDM/Stainless steel

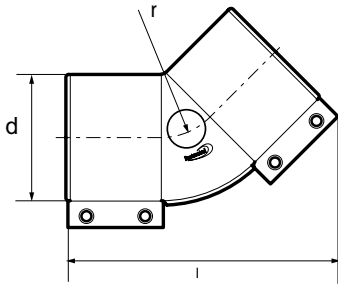


Dustcontrol Steel Tubing System

Polymer Tubing System

An elastomer (EPDM and NBR-rubber) used in bends and, branch pipes and mounting brackets gives to a particularly high wear resistance moderation of the sound level. Dustcontrol's bends are designed with a patented radial ridge to spread the impact area of the material and thereby reducing the wear and minimising the risk of blockage. NBR is especially recommended for use with oil and cutting fluids.

Bend 45° (complete with joints)

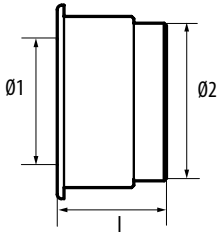


Part No EPDM	Part No NBR	Desc	d	l	r	m (kg/m)
307311**	307312	Ø 50	50.8	150	66	0.5
3343*		Ø 50	50.8	150	66	0.5
300911**	300912	Ø 76	76	170	79	0.6
3344*		Ø 76	76	170	79	0.6
302911**	302912	Ø 108	108	195	94	0.8
3345*		Ø 108	108	195	94	0.8

*) Material EPDM/Stainless steel

***) Antistatic

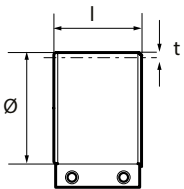
Cone 90°



Part No. EPDM	Part No. NBR	Desc.	d ₁	d ₂	l	t
3305**	3325	Ø 76/50	50.8	76	50	0.1
3306**	3326	Ø 108/76	76	108	55	0.3
3307**	3327	Ø 108/100	100	108	35	0.1
3308**	3328	Ø 159/108	108	159	70	0.7

***) Antistatic

Joint



Part No EPDM	Part No NBR	Desc	d	l	t	m (kg)
3077**	3271	Ø 50	50,8	65	4.5	0.2
307702*		Ø 50	50,8	65	4.5	0.2
3007**	3272	Ø 76	76	65	5.0	0.3
300702*		Ø 76	76	65	5.0	0.3
3031**	3273	Ø 108	108	65	5.5	0.4
303102*		Ø 108	108	65	5.5	0.4
3045**	3274	Ø 159	159	65	6.5	0.5
304502*		Ø 159	159	65	6.5	0.5

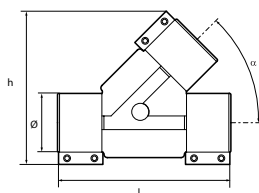
*) Material EPDM/Stainless steel

***) Antistatic

Polymer Tubing System

An elastomer (EPDM and NBR-rubber) used in bends and, branch pipes and mounting brackets gives to a particularly high wear resistance moderation of the sound level. Dustcontrol's bends are designed with a patented radial ridge to spread the impact area of the material and thereby reducing the wear and minimising the risk of blockage. NBR is especially recommended for use with oil and cutting fluids.

Branch pipe 45° (complete with joints)



Part No EPDM	Part No NBR	Desc	d	l	h	m (kg)
307411**	307412	Ø 50	50.8	220	150	0.8
3346*		Ø 50	50.8	220	150	0.8
300311**	300312	Ø 76	76	250	200	1.2
3347*		Ø 76	76	250	200	1.2
303511**	303512	Ø 108	108	300	260	1.6
3348*		Ø 108	108	300	260	1.6

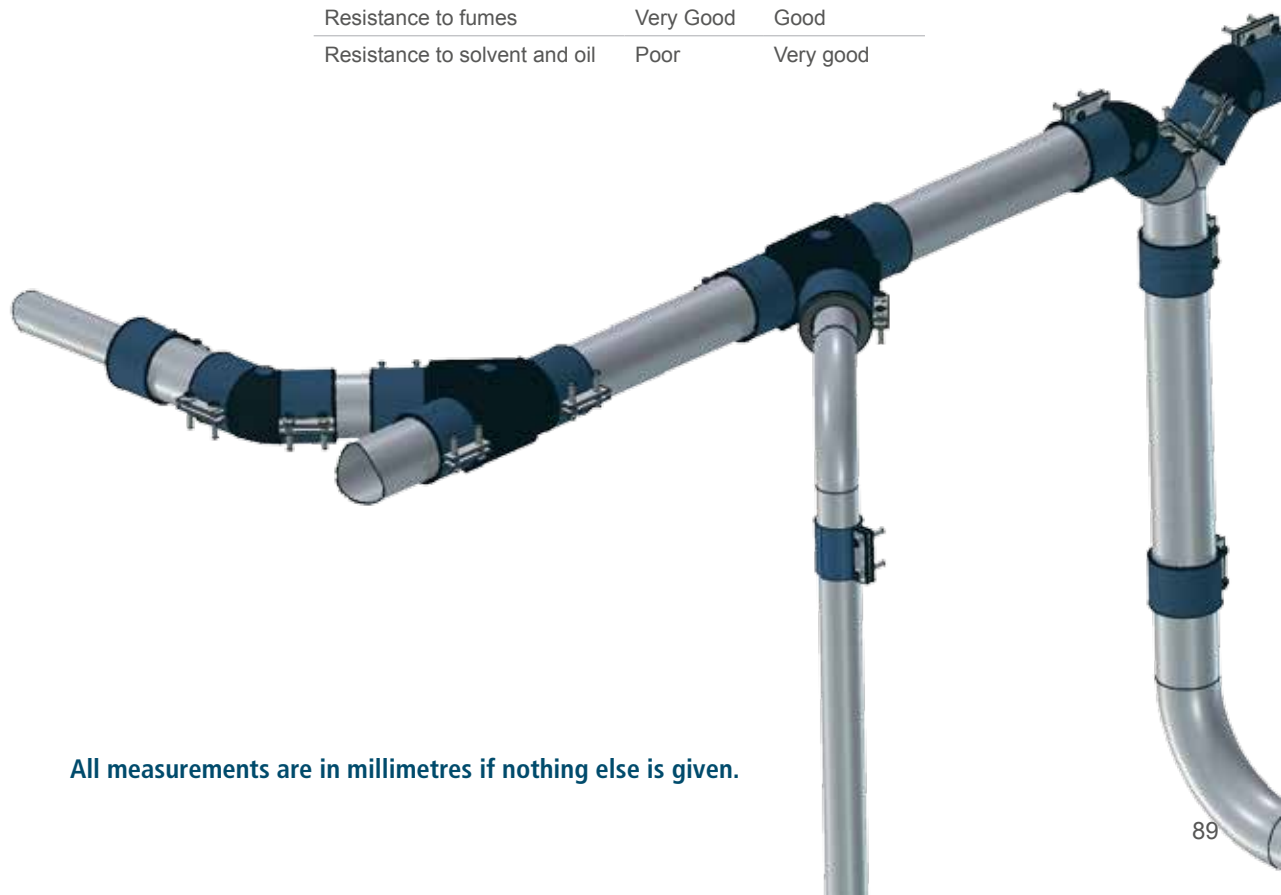
*) Material EPDM/Stainless steel

***) Antistatic



Technical data

	EDPM	NBR
Temp °C max/min	140/-60	120/-60
Antistatic	Yes	Yes
Abrasion resistance	Very Good	Good
UV and Ozone resistance	Very Good	Limited
Resistance to fumes	Very Good	Good
Resistance to solvent and oil	Poor	Very good



All measurements are in millimetres if nothing else is given.

Reinforced Spiro Tubing

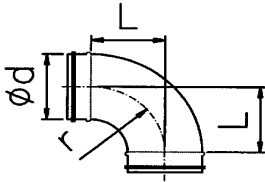
The reinforced spiro tubing system is used to connect the separator and vacuum pump. It is also used in extraction systems for smoke and light dust.

Spiro Tubing



Part No	Desc	d	l	t	m (kg/m)
3013	Ø 100	100	3	0.6	1.8
3123	Ø 125	125	3	0.6	2.2
3042	Ø 160	160	3	0.8	3.7
3095	Ø 200	200	3	0.8	4.7
3090	Ø 250	250	3	0.8	5.9

Bend 90°



Part No	Desc	d	r	l	m (kg)
3014	Ø 100	100	100	100	0.4
3124	Ø 125	125	125	125	0.6
3043	Ø 160	160	160	160	0.8
3096	Ø 200	200	200	200	1.5
3091	Ø 250	250	250	250	2.4

Bend 45°



Part No	Desc	d	r	l	m (kg)
3086	Ø 100	100	100	43	0.3
3125	Ø 125	125	125	52	0.4
3089	Ø 160	160	160	66	0.6
3088	Ø 200	200	200	83	0.9
3087	Ø 250	250	250	104	1.3

Bend 30°



Part No	Desc	d	r	l	m (kg)
3024	Ø 100	100	100	25	0.3
3126	Ø 125	125	125	33	0.3
3025	Ø 160	160	160	43	0.5
3026	Ø 200	200	200	54	0.7
3027	Ø 250	250	250	67	1.4

Reinforced Spiro Tubing

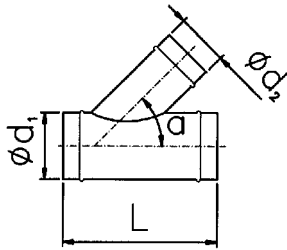
The reinforced spiro tubing system is used to connect the separator and vacuum pump. It is also used in extraction systems for smoke and light dust.

Y-pipe



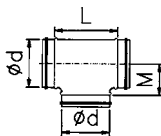
Part No	Desc	d	r	l	M	m (kg)
3127	Ø 125	125	190	375	190	1.5
3128	Ø 160	160	240	480	240	2.5
3129	Ø 200	200	300	600	300	3.8
3130	Ø 250	250	375	750	375	8.6

Branch pipe



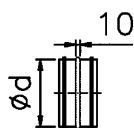
Part No	Desc	d ₁	d ₂	l	α	m (kg)
3131	Ø 100/100	100	100	290	45°	1.3
3132	Ø 125/100	125	100	290	45°	1.4
3148	Ø 125/125	125	125	290	45°	1.6
3133	Ø 160/100	160	100	370	45°	1.6
3134	Ø 160/125	160	125	370	45°	1.9
3149	Ø 160/160	160	160	370	45°	2.5
3135	Ø 200/100	200	100	460	45°	2.2
3136	Ø 200/125	200	125	460	45°	2.3
3137	Ø 200/160	200	160	460	45°	2.9
3150	Ø 200/200	200	200	460	45°	3.5
3138	Ø 250/160	250	160	575	45°	3.4
3139	Ø 250/200	250	200	575	45°	4.0
3151	Ø 250/250	250	250	575	45°	4.6

T-pipe



Part No.	Desc.	d	l	M	m (kg)
3051	Ø 160	160	229	105	0.9

Nipple



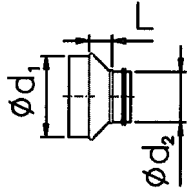
Part No	Desc	d	m (kg)
3015	Ø 100	100	0.1
3144	Ø 125	125	0.2
3044	Ø 160	160	0.2
3099	Ø 200	200	0.3
3094	Ø 250	250	0.5

All measurements are in millimetres if nothing else is given.

Reinforced Spiro Tubing

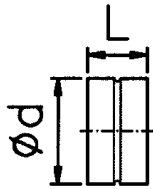
The reinforced spiro tubing system is used to connect the separator and vacuum pump. It is also used in extraction systems for smoke and light dust.

Cone



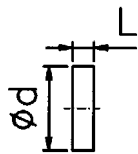
Part No	Desc	d_1	d_2	l	m (kg)
3054	Ø 100 /80	100	80	18	0.2
3141	Ø 125 /100	125	100	22	0.2
3157	Ø 125 /110	125	110	48	0.3
3028	Ø 160 /100	160	100	37	0.3
3142	Ø 160 /125	160	125	26	0.2
3098	Ø 200 /160	200	160	26	0.3
3093	Ø 250 /200	250	200	32	0.6
3122	Ø 250 /160	250	160	53	0.5
3268	Ø 250/ 160	250	160	113	0.6
3269	Ø 250/200	250	200	92	0.6

Socket



Part No	Desc	d	l	m (kg)
3055	Ø 100	100	90	0.1
3143	Ø 125	125	90	0.2
3056	Ø 160	160	90	0.2
3082	Ø 200	200	90	0.3
3083	Ø 250	250	130	0.5

Clean out cover

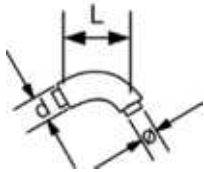
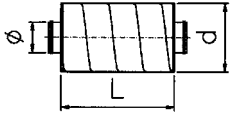


Part No	Desc	d	l	m (kg)
3152	Ø 100	100	40	0.1
3153	Ø 125	125	40	0.1
3154	Ø 160	160	40	0.2
3155	Ø 200	200	40	0.3
3156	Ø 250	250	40	0.5

Reinforced Spiro Tubing

The reinforced spiro tubing system is used to connect the separator and vacuum pump. It is also used in extraction systems for smoke and light dust.

Inline silencer



Part No	d_1	d_2	l	m (kg)
3182	160	335	1200	19.8
3183	160	335	600	10.7
3184	160	260	600	6.3
3195	80	180	300	2.2
3350	100	150	250	0.4
4476	100	200	600	4.8
4942	100	200	300	2.6
3228	125	224	300	3.0

Silencers

Absorption dB for mean frequency Hz



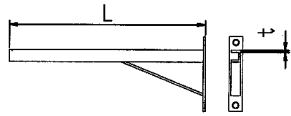
Technical data

Part No	125 dB	250	500	1k	2k	4k	8k
3182	10	18	34	49	53	30	18
3183	8	15	23	31	40	22	16
3184	4	8	21	37	40	22	14
3195	4	8	16	27	34	35	19
3228	2	7	14	21	26	20	12
4476	8	13	25	40	50	40	21
4942	4	8	14	23	27	25	14

All measurements are in millimetres if nothing else is given.

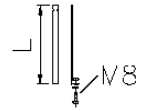
Mounting Hardware

1 Bracket



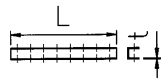
Part No	Desc	L	t	m (kg)
3008	300	300	3	0.85
3037	500	500	3	1.50
3178	1000	1000	3	3.00

2 Clamping band



Part No	Desc	d	L	m (kg)
3107	50	51	140	0.10
3021	76	76	210	0.10
3022	110	108	290	0.10
3023	160	159	425	0.15

3 Wall and ceiling attachment



Part No	Desc	L	t	m (kg)
3106	270	270	3	0.40
9622	2000	2000	3	3.00

4 Beam clamp



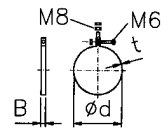
Part No	Desc	M
3192	M8	M8
3251	M10	M10

5 Threaded rod



Part No	Desc	L	M	m (kg/m)
3017	HGS8	2000	M8	0.35
3250	M10	1000	M10	0.50

6 Clamping wrapper



*) 5 pcs

Part No*	d	B	t	m (kg)
3185	50	20	1.25	0.10
3186	76	20	2.0	0.15
3187	110	25	2.0	0.25
3188	160	25	3.0	0.40
3189	200	25	3.0	0.55
3190	250	25	3.0	0.75

7 Tube hanger EPDM, rubber lined



Part No	d	B	t
3245	50	24	1.5
3246	76	24	1.5
3284	101	24	2.0
3247	108	24	1.5
3285	125	24	2.0
3248	160	24	2.0
3249	200	24	3.0
3286	245	30	3.0

8 Pipe strap

Part No	L (m)	b	t	m (kg/m)
3158	25	25	1	0.15

Mounting Hardware

9 Adjusting track

Part No	L	b	h	
3159	300	41	21	
3241	2000	41	21	perforated
3252	3000	41	21	perforated

10 Plate

Part No	a	b	t
3253	52.6	45.5	5.0

10 Spring nut

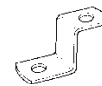
Part No	M
9601	M8
3289	M10

Two part clamp



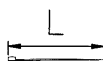
Part No	d
3068	∅ 160
3069	∅ 200

Z-attachment



Part No
3011

Tie-wrap, nylon



Part No	L
9817	136
9815	360

L-attachment



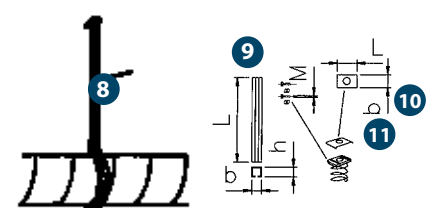
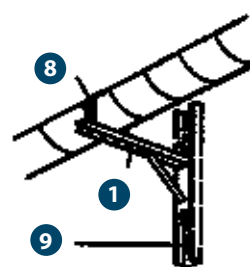
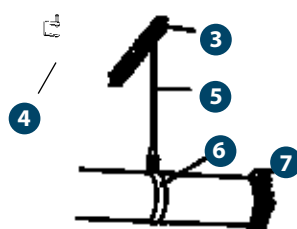
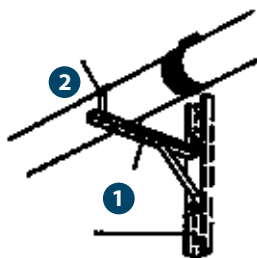
Part No
3012

Fastener set for mounting

Part No
3198

Duct tape, roll

Part No	L (m)
9076	50



The tubing should be supported on both sides of joints.

