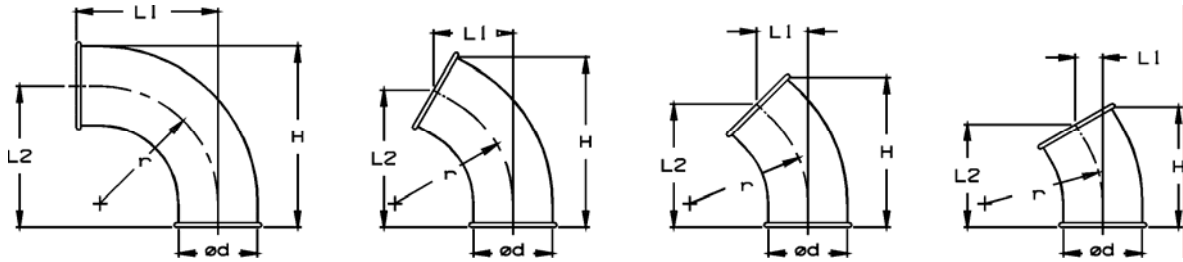
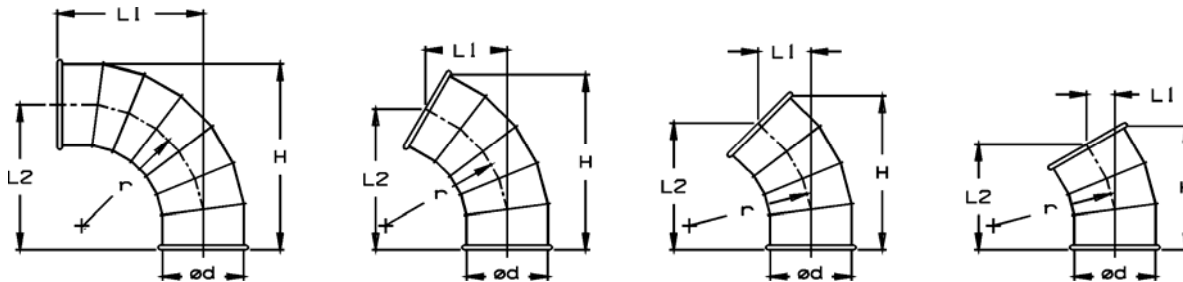


QF Bends



$r = 1 \times \text{ød}$

90°						60°						45°						30°					
ød	r	L1	L2	H	kg	ød	r	L1	L2	H	kg	ød	r	L1	L2	H	kg	ød	r	L1	L2	H	kg
100	100	130	130	180	0,25	100	100	95	165	210	0,28	100	100	50	125	165	0,20	100	100	30	105	135	0,18
125	125	158	158	216	0,45	125	125	100	185	235	0,41	125	125	55	140	185	0,29	125	125	30	125	150	0,23
140	140	165	165	235	0,60	140	140	90	190	230-240	0,53	140	140	60	150	190	0,41	140	140	35	130	160	0,34
160	160	190	190	265	0,80	160	160	105	215	260-275	0,68	160	160	65	160	215	0,51	160	160	35	135	170	0,41
180	180	205	205	295	1,00	180	180	110	230	280-290	0,76	180	180	70	170	235	0,61	180	180	35	145	185	0,49



$r = 1,5 \times \text{ød}$

90°						60°						45°						30°					
ød	r	L1	L2	H	kg	ød	r	L1	L2	H	kg	ød	r	L1	L2	H	kg	ød	r	L1	L2	H	kg
200	300	405	405	518	2,40	200	300	225	410	500	1,80	200	300	155	360	430	1,80	200	300	65	300	350	1,15
250	375	438	438	550	3,30	250	375	260	410	510	2,35	250	375	160	370	460	2,30	250	375	70	310	380	1,80
315	472	548	548	705	4,90	315	472	270	500	630	4,10	315	472	180	415	525	3,20	315	472	80	340	420	2,45
350	525	595	595	770	5,90	350	525	295	540	700	5,10	350	525	190	455	580	3,40	350	525	90	365	450	2,85
400	600	655	655	855	10,6	400	600	310	585	760	7,30	400	600	195	510	650	5,50	400	600	95	385	490	4,20
450	675	730	730	955	12,0	450	675	345	640	840	8,70	450	675	200	540	690	6,60	450	675	100	395	505	4,80
500	750	790	790	1040	14,0	500	750	380	680	895	10,2	500	750	205	595	745	7,60	500	750	105	410	535	5,50

Art. No.

- Elbow QF 30°: 21003.xxx
- Elbow QF 45°: 21004.xxx
- Elbow QF 60°: 21006.xxx
- Elbow QF 90°: 21009.xxx

xxx = ød Ex.: Elbow ø200 90° = Art. No. 21009.200

Material: Galvanised mild steel

As regards thickness of plate, edge dimensions, etc., see data sheet for QF duct systems.

All dimensions are in mm.

Tolerance: H, L1 & L2: ±10 mm
Kg: wei

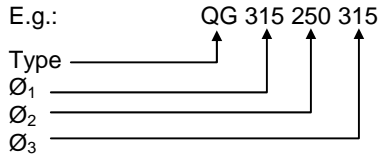
QF Branches

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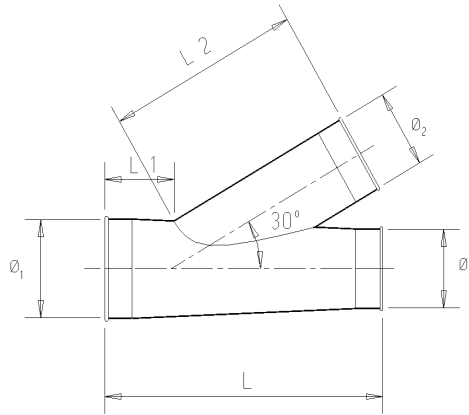
Branch

Galvanised mild steel branch. \varnothing_2 and \varnothing_3 are always equal to or smaller than \varnothing_1 .



L = approx. $2 \times \varnothing_2 + 120$ mm.
 L_1 = approx. 100 mm.
 L_2 = approx. $1.7 \times \varnothing_2 + 120$ mm.

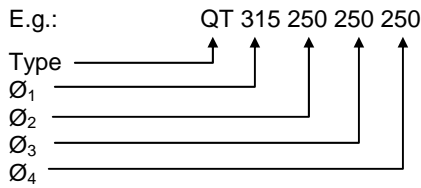
Possible variants



Diameter $\varnothing_2 / \varnothing_3$												
\varnothing_1	100	125	140	160	180	200	250	315	350	400	450	500
100												
125												
140												
160												
180												
200												
250												
315												
350												
400												
450												
500												

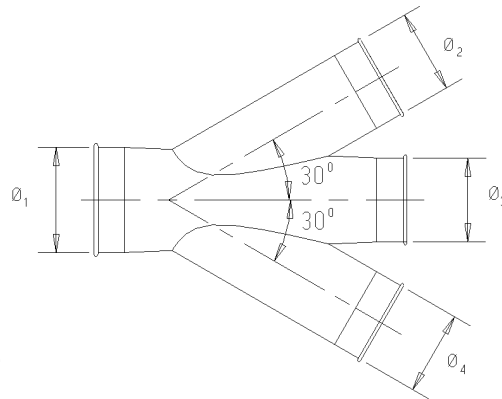
Double Branch

Galvanised mild steel double branch. \varnothing_2 , \varnothing_3 and \varnothing_4 are always equal to or smaller than \varnothing_1 .



The length of the double branch is dependent on the diameter.

Possible variants

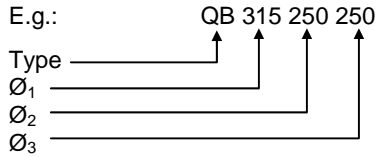


Diameter $\varnothing_2 / \varnothing_3 / \varnothing_4$												
\varnothing_1	100	125	140	160	180	200	250	315	350	400	450	500
100												
125												
140												
160												
180												
200												
250												
315												
350												
400												
450												
500												

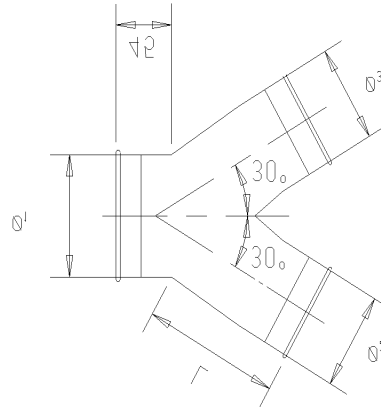
QF Branches

Y Branch

Galvanised mild steel Y branch. \varnothing_2 and \varnothing_3 are always equal to or smaller than \varnothing_1 .



$L = \varnothing_1 + 100$ mm.



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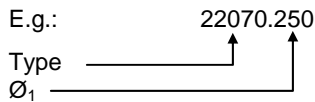
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Possible variants

\varnothing_1	Diameter $\varnothing_2 / \varnothing_3$											
	100	125	140	160	180	200	250	315	350	400	450	500
100												
125												
140												
160												
180												
200												
250												
315												
350												
400												
450												
500												

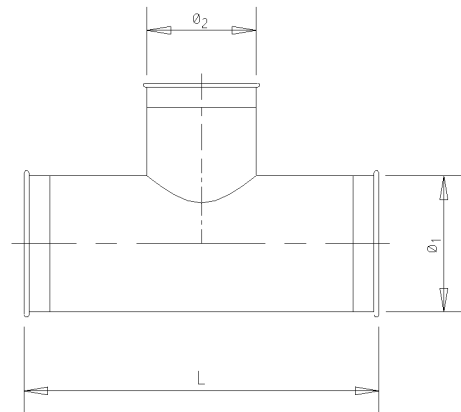
T Branch

Galvanised T branch. \varnothing_1 to \varnothing_1 must be the same dimension, however \varnothing_2 has to be equal to or smaller than \varnothing_1 . At ordering, please specify diameter \varnothing_2 .



For $\varnothing_1 \leq 315 \Rightarrow L = \varnothing_2 + 2 \times 100$ mm.

For $\varnothing_1 \geq 315 \Rightarrow L = \varnothing_2 + 2 \times 150$ mm.



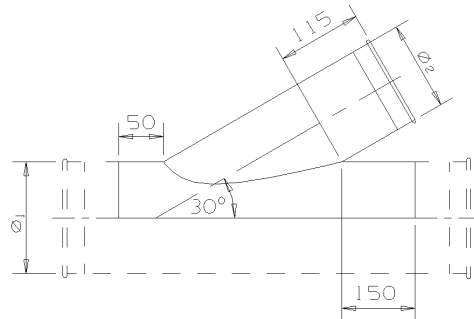
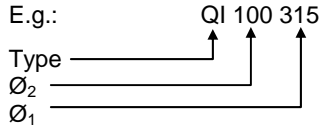
Possible variants

\varnothing_1	Diameter \varnothing_2											
	100	125	140	160	180	200	250	315	350	400	450	500
100												
125												
140												
160												
180												
200												
250												
315												
350												
400												
450												
500												

QF Cut-in Branches

Cut-in Branch

Galvanised mild steel.
 \varnothing_2 is always equal to or smaller than \varnothing_1 .



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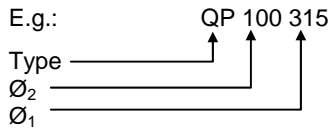
Version 1005/GB

Possible variants

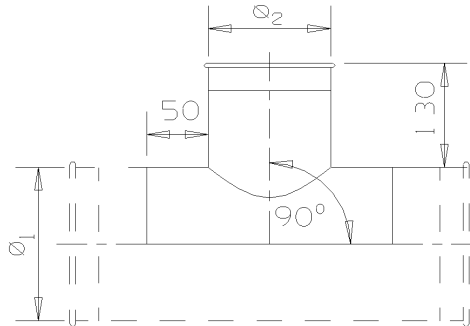
\varnothing_1	Diameter \varnothing_2											
	100	125	140	160	180	200	250	315	350	400	450	500
100												
125												
140												
160												
180												
200												
250												
315												
350												
400												
450												
500												

Cut-in T Branch

Galvanised mild steel.
 \varnothing_2 is always equal to or smaller than \varnothing_1 .



$L = \varnothing_2 + 100 \text{ mm.}$



Possible variants

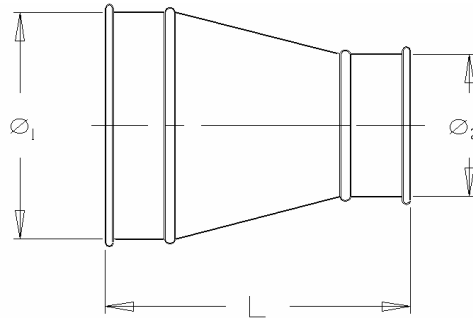
\varnothing_1	Diameter \varnothing_2											
	100	125	140	160	180	200	250	315	350	400	450	500
100												
125												
140												
160												
180												
200												
250												
315												
350												
400												
450												
500												

QF Reducer

Galvanised mild steel.

E.g.: QR 315 100
 Type _____
 \varnothing_1 _____
 \varnothing_2 _____

$$L = (\varnothing_1 - \varnothing_2) + 50 + (2 \times 58) \text{ mm.}$$



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Possible variants

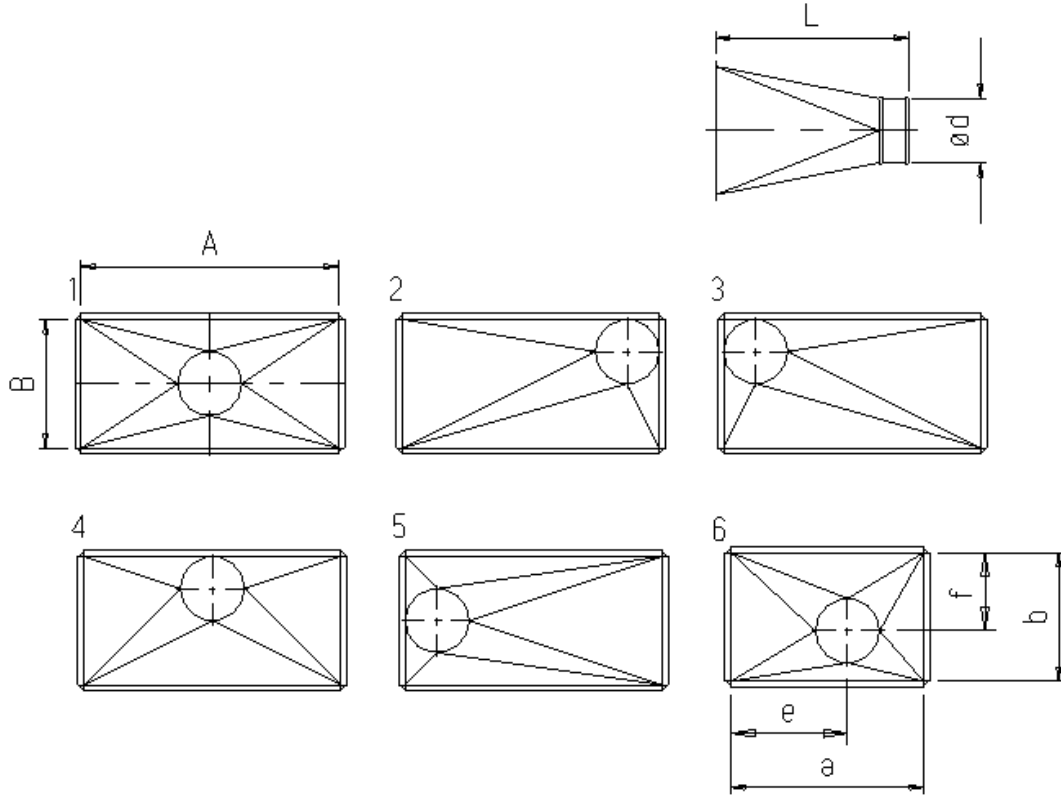
\varnothing_1	Diameter \varnothing_2											
	100	125	140	160	180	200	250	315	350	400	450	500
125												
140												
160												
180												
200												
250												
315												
350												
400												
450												
500												

QF Transitions

Galvanised mild steel rectangular to round transition with flange. Also available without flange on enquiry. The different positions for the round end of the transition can be seen from the drawing.

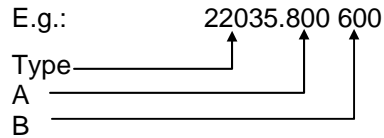
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Please specify:

- The actual A, B and Ø dimensions.
- The position of the connection spigot.
- The type of connection spigot (QF, Spiro or raw end).



The A and B dimensions are max. dimensions.

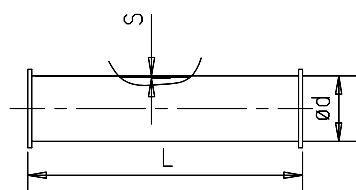
Possible variants

Type	B												
	A	100	150	200	250	300	350	400	450	500	600	700	800
22035	100												
	150												
	200												
	250												
	300												
	350												
	400												
	450												
	500												
	600												
	700												
800													

FL Duct System - galvanised

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20110.xxx: L = 500
20111.xxx: L = 1000
20112.xxx: L = 2000

xxx = ød in every article number of the duct system.

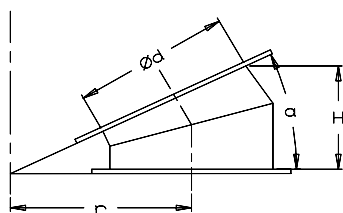
Ex.: flange duct galvanised.
L = 2000 ø 315
Article no. 20112.315

Material:
Galvanised steel sheet with galvanised flat bar flanges.

S = 0.75 for ød 140 - 350,
0.9 for ød 400 - 900.

Other components:
Dimensions and design are identical to the corresponding components of the QF-duct system in which the QF edge is replaced by a flange.

Art. no. is shown in the pricelist.



21113.xxx: a = 30°
21114.xxx: a = 45°
21116.xxx: a = 60°
21119.xxx: a = 90°

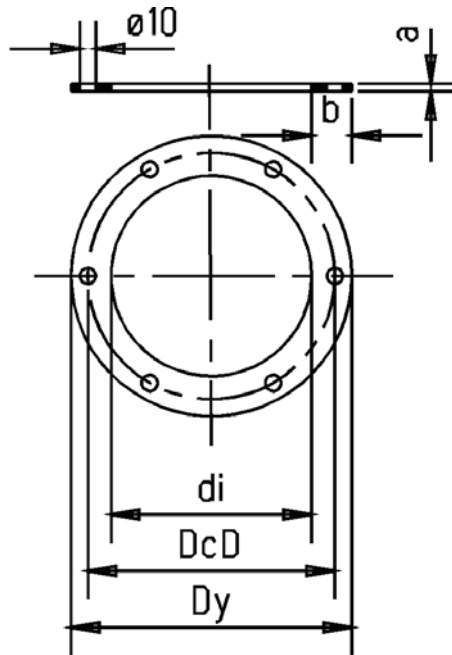
FLANGE DUCT; GALVANISED FLANGE			
Type	L = 500	L = 1000	L = 2000
Art. No.	20110.xxx	20111.xxx	20112.xxx
L1	480	980	1980
ød	Kg	Kg	kg
140	2,2	3,4	5,7
160	2,4	3,6	6,5
180	2,9	4,7	8,3
200	3,4	5,4	9,2
250	4,4	7,0	11,8
315	5,5	8,8	15,2
355	6,1	10,6	18,9
400	7,7	12,7	22,3
450	8,6	14,3	25,0
500	9,7	15,9	28,0
560	10,6	17,7	31,5
630	11,8	19,8	35,3
710	12,7	22,3	39,7
800	13,8	27,2	46,7
900	14,9	30,5	52,5

		BEND GALVANISED FLANGE								
		Type	a = 90°		a = 60°		a = 45°		a = 30°	
		Art. No.	21119.xxx		21116.xxx		21114.xxx		21113.xxx	
Pressed r = 1 x D	ød	H	Kg	H	Kg	H	Kg	H	Kg	
	140	235	1,92	227	1,6	196	1,32	158	1,08	
	160	270	2,10	252	1,99	220	1,45	176	1,15	
	180	293	2,39	275	2,12	239	1,88	189	1,49	
	200	518	4,24	490	3,47	440	3,05	315	2,70	
	250	539	5,36	520	4,53	460	4,02	380	4,04	
	315	688	7,87	635	6,39	536	5,63	417	4,86	
	350	765	9,46	685	7,60	585	6,67	450	5,70	
	400	850	13,05	760	10,26	640	8,84	480	7,33	
	450	950	15,90	835	12,35	700	10,52	510	8,65	
Segmented r = 1.5 x D	500	1040	18,87	905	14,59	755	12,35	555	10,08	
	560	1200	24,10	1110	18,57	930	13,26	680	10,95	
	630	1340	29,54	1230	22,50	1030	18,40	760	14,38	
	710	1520	37,12	1400	28,12	1180	23,09	870	17,72	
	800	1700	47,96	1560	36,58	1310	30,19	960	23,46	
	900	1900	58,96	1730	44,42	1520	38,13	1060	28,04	

FL Duct System - galvanised

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FLANGE GALVANISED: 30015.xxx

$\varnothing d$	d_i	$D_c D$	D_y	No. $\varnothing 10$	a x b	Kg
100	101	127	143	4	5 x 20	0,30
125	126	157	178	4	5 x 25	0,45
140	141	172	193	6	5 x 25	0,50
160	161	192	213	6	5 x 25	0,55
180	181	212	233	6	5 x 25	0,65
200	203	232	253	6	5 x 25	0,70
250	253	289	313	6	5 x 30	1,05
315	317	349	377	8	5 x 30	1,25
350	353	387	413	8	5 x 30	1,40
400	404	438	464	12	5 x 30	1,55
450	454	488	514	12	5 x 30	1,75
500	504	538	564	12	5 x 30	1,95
560	565	600	625	12	5 x 30	2,15
630	635	670	695	16	5 x 30	2,40
710	715	750	775	16	5 x 30	2,70
800	804	848	884	16	5 x 40	4,10
900	904	948	984	16	5 x 40	4,60