T-pieces and X-pieces

TPC/XPC

Description

Ventilation T-pieces and X-pieces are available in several types and forms, depending on the size, diameter and standard or custom dimensioning. All pieces are full-bore and provided with 90-degree branches, equal to or smaller than the main duct size. Seam welds provide a neat finish and require no additional sealing.

The female-ended version is available on request (**Code: TPCF**).

TPC – full-bore T-piece
XPC – full-bore four-way piece

1. T-piece fabricated with an SPL collar saddle, fastened to the duct with rivets and caulked at the joints.

2. T-piece fabricated with a full-size collar saddle SPP, fastened to the bottom part with seam welds, requires no additional sealing.

3. T-piece fabricated with a SPS short segmented collar saddle, designed for non-standard duct sizes and branches sized above 400 mm.

Available materials - Product code example

TPC-... -... -...	- galvanized steel sheet
TPC-K-.. -...-...	- 1.4301/304 stainless steel sheet
TPC-K-.. -...-...-316L	- 1.4404/316L stainless steel sheet, molybdenum-enriched
TPC-A-...-...-...	- AW-1050A H24 aluminium sheet
TPC-CU-...-...-...	- M1E z4 copper sheet
TPC-ZM-...-...-...	- ZM310 coating (only up to a diameter of Ød1 = 500mm)

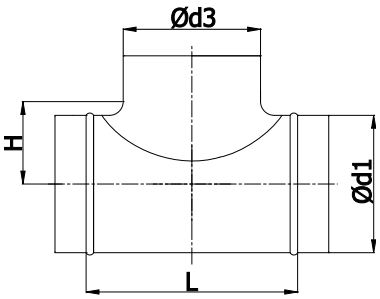
Product code example

Product code: **TPC/XPC- aaa - bbb - ccc**

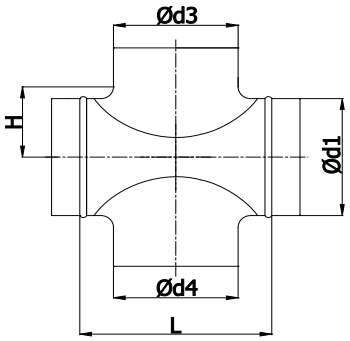
type
Ød$_1$
Ød$_3$
Ød$_4$

Dimensions

TPC

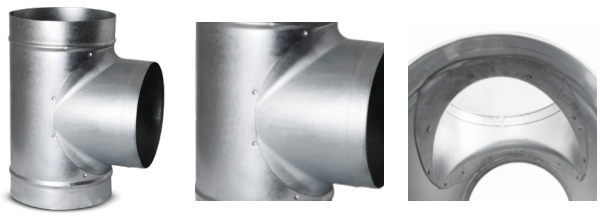


XPC



Versions

Version 1



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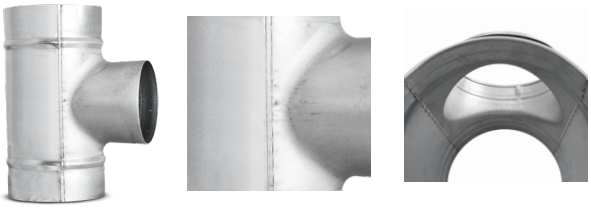
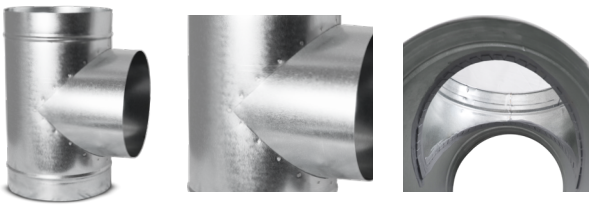


Version 3



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T-pieces and X-pieces

TPC/XPC

Dimensions

Ød$_1$ [mm]	Ød$_3$ / Ød$_4$ [mm]	L [mm]	H [mm]	Weight [kg]	
				TPC	XPC
80	80[1]	125	52	0.25	0.35
100	80[1]	118	65	0.30	0.50
	100[1]	164	65	0.40	0.60
125	80[1]	154	75	0.36	0.50
	100[1]	133	78	0.46	0.70
	125[1]	158	83	0.58	0.85
140	80[1]	108	82	0.38	0.50
	100[1]	133	85	0.50	0.74
	125[1]	158	90	0.65	0.96
150	80[1]	118	87	0.42	0.52
	100[1]	128	90	0.55	0.75
	125[1]	158	95	0.68	0.98
	140[3]	168	95	0.70	0.99
	150[1]	200	95	0.70	1.02
160	80[1]	118	92	0.44	0.56
	100[1]	128	95	0.55	0.82
	125[1]	158	100	0.68	1.05
	140[3]	168	100	0.75	1.07
	150[3]	188	100	0.75	1.09
	160[1]	208	105	0.80	1.15
180	80[1]	118	102	0.50	0.60
	100[1]	128	105	0.65	0.85
	125[1]	158	110	0.77	1.08
	140[3]	168	110	0.80	1.10
	150[3]	210	110	0.80	1.12
	160[1]	258	115	0.92	1.14
	180[3]	218	115	1.06	1.45
200	80[1]	123	112	0.55	0.66
	100[1]	128	115	0.65	0.92
	125[1]	174	115	0.79	1.17
	140[3]	168	120	0.83	1.20
	150[1]	246	120	0.88	1.23
	160[1]	258	125	0.95	1.45
	180[3]	273	125	1.15	1.64
	200[1]	248	125	1.25	1.70

Ød$_1$ [mm]	Ød$_3$ / Ød$_4$ [mm]	L [mm]	H [mm]	Weight [kg]	
				TPC	XPC
224	80[1]	123	124	0.60	0.70
	100[1]	158	127	0.78	0.98
	125[1]	158	132	0.90	1.15
	140[3]	168	132	0.98	1.34
	150[3]	210	132	0.98	1.36
	160[1]	258	137	1.00	1.55
	180[3]	230	137	1.20	1.74
	200[1]	248	137	1.25	1.83
	224[3]	274	137	1.46	2.06
250	80[1]	109	137	0.73	0.96
	100[1]	148	140	0.83	1.17
	125[1]	158	145	0.90	1.27
	140[3]	180	145	1.12	1.50
	150[1]	246	145	1.12	1.53
	160[1]	258	150	1.19	1.70
	180[3]	230	150	1.40	2.00
	200[1]	248	150	1.40	2.05
	224[3]	274	150	1.60	2.40
	250[1]	278	150	1.77	2.50
280	80[3]	130	152	0.80	1.15
	100[3]	150	155	0.93	1.27
	125[1]	158	160	1.05	1.40
	140[3]	180	160	1.20	1.68
	150[3]	210	160	1.20	1.70
	160[3]	220	165	1.28	1.84
	180[3]	230	165	1.45	2.00
	200[1]	248	165	1.50	2.05
	224[3]	272	165	1.64	2.35
300	80[3]	130	162	0.90	1.40
	100[3]	150	165	1.00	1.42
	125[1]	158	170	1.07	1.50
	140[3]	180	170	1.25	1.77
	150[1]	248	170	1.25	1.80
	160[1]	258	175	1.35	1.98
	180[3]	230	175	1.55	2.15
	200[1]	248	175	1.58	2.20
	224[3]	274	175	1.73	2.46
	250[1]	298	175	1.94	2.60

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TPC/XPC

Dimensions

Ød$_1$ [mm]	Ød$_3$ / Ød$_4$ [mm]	L [mm]	H [mm]	Weight [kg]	
				TPC	XPC
315	80[3]	130	170	1.00	1.41
	100[3]	150	173	1.02	1.43
	125[1]	158	178	1.10	1.53
	140[3]	180	178	1.35	1.62
	150[1]	248	178	1.35	1.65
	160[1]	258	182	1.35	2.00
	180[3]	230	182	1.62	2.22
	200[1]	242	182	1.65	2.26
	224[3]	274	182	1.80	2.55
	250[1]	298	182	1.95	2.67
	315[1]	428	182	2.80	3.66
355	100[3]	110	193	1.32	2.00
	125[3]	135	198	1.45	2.10
	160[3]	170	203	1.70	2.25
	200[1]	300	203	2.10	2.75
	224[3]	244	203	2.36	3.10
	250[1]	300	203	2.45	3.20
	315[1]	705	203	3.10	4.20
400	100[3]	110	215	1.80	2.20
	125[3]	135	220	1.90	2.40
	160[3]	170	225	2.20	2.80
	200[1]	300	225	2.60	3.20
	224[1]	244	225	2.80	3.60
	250[1]	360	225	3.00	3.75
	315[3]	335	225	3.55	4.38
	400[3]	420	225	4.60	5.90
450	125[3]	135	245	2.65	3.30
	160[3]	200	250	3.00	3.70
	200[3]	220	250	3.50	4.20
	250[3]	270	250	4.00	4.80
	315[3]	335	250	4.50	5.30
	400[3]	420	250	5.60	6.80
500	125[3]	135	270	3.00	3.80
	160[3]	180	275	3.30	4.10
	200[3]	220	275	3.80	4.60
	250[3]	270	275	4.4	5.2
	315[3]	335	275	5.0	5.8
	400[3]	420	275	6.3	7.6

Ød$_1$ [mm]	Ød$_3$ / Ød$_4$ [mm]	L [mm]	H [mm]	Weight [kg]	
				TPC	XPC
560	200[3]	220	305	4.3	5.7
	250[3]	270	305	4.8	6.3
	315[3]	315	305	5.6	7.2
	400[3]	420	305	6.9	9.3
600	200[3]	220	325	4.5	6.1
	250[3]	270	325	4.9	6.7
	315[3]	335	325	5.9	7.6
	400[3]	420	325	7.3	9.8
630	200[3]	240	340	4.8	6.4
	250[3]	270	340	5.4	7.0
	315[3]	335	340	6.3	8.2
	400[3]	420	340	7.7	10.2
710	160[3]	230	415	5.5	6.0
	200[3]	270	415	6.0	6.3
	250[3]	320	415	6.6	6.7
	315[3]	385	435	7.5	8.0
	400[3]	484	435	8.5	9.6
	450[3]	520	475	9.4	10.9
800	160[3]	230	460	6.2	6.8
	200[3]	270	460	6.8	7.5
	250[3]	320	460	7.4	8.0
	315[3]	385	480	8.4	9.3
	400[3]	470	480	9.5	10.5
	450[3]	520	520	10.5	11.6
	500[3]	570	520	11.2	12.0
	560[3]	630	520	11.9	13.1

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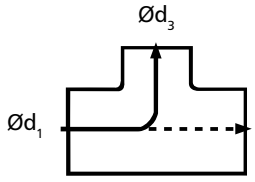
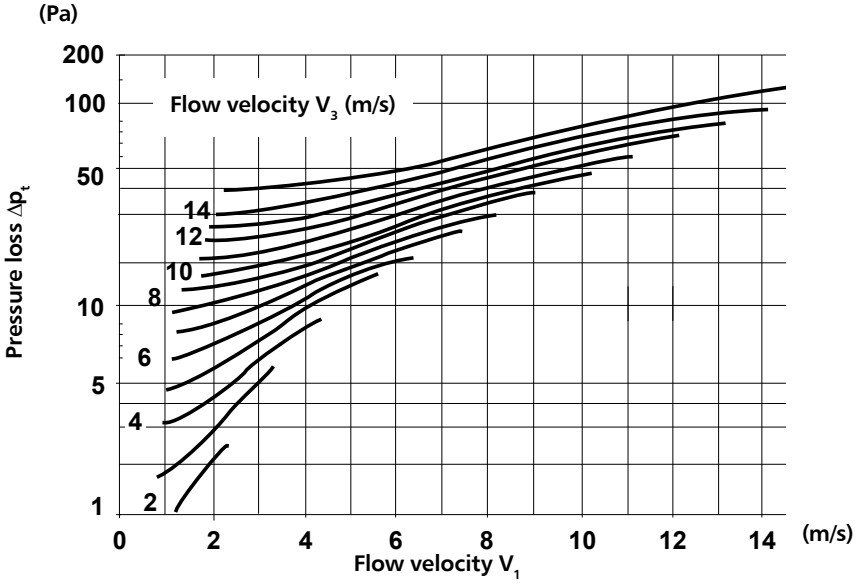
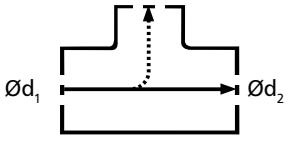
T-pieces and X-pieces

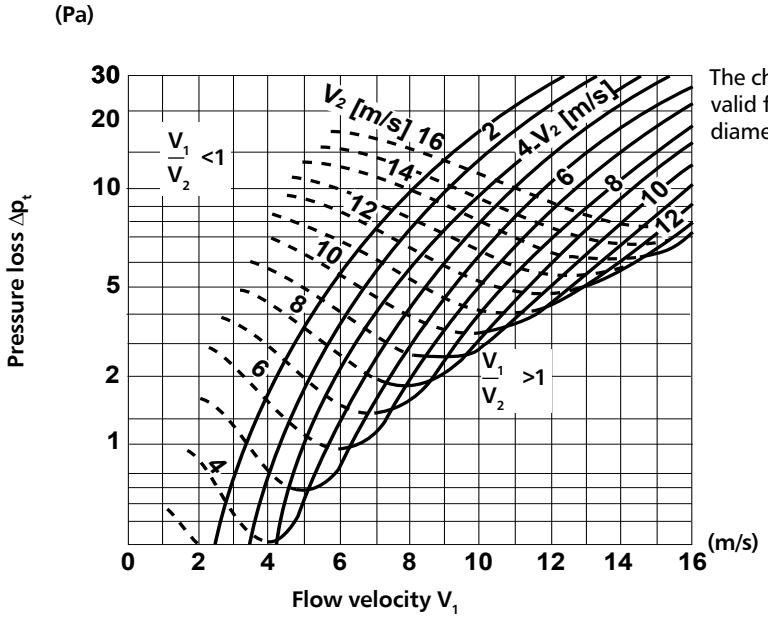
TPCL/XPCL/TPC/XPC

Technical specifications









The chart is valid for a reduced diameter Ød$_2$.

V_1 – average flow velocity across d_1
V_2 – average flow velocity across d_2
V_3 – average flow velocity across d_3

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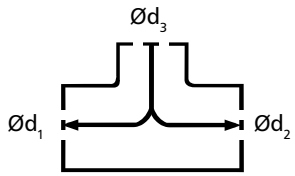
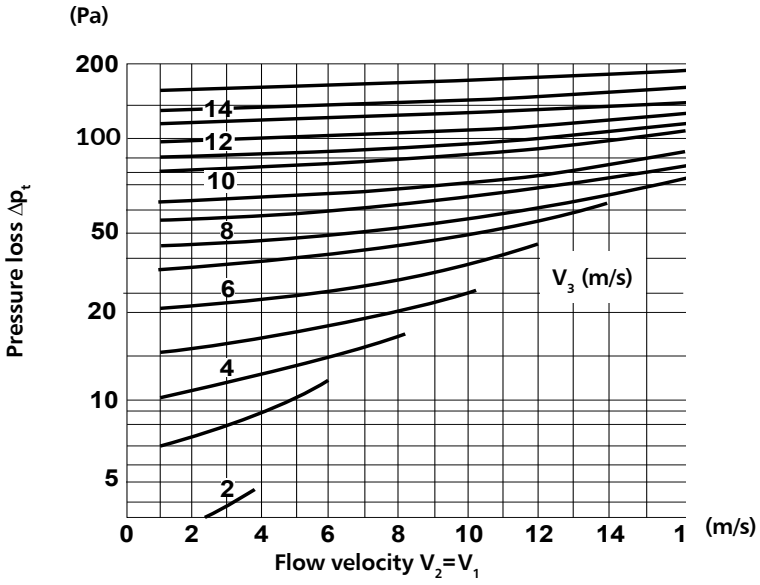
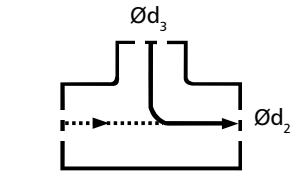
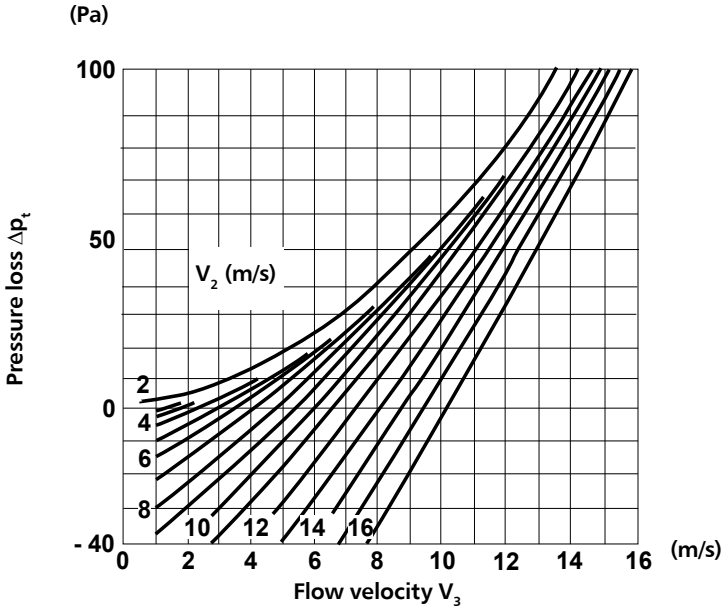
TPCL/XPCL/TPC/XPC

Technical specifications









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V_2 – average flow velocity across d_2
V_3 – average flow velocity across d_3

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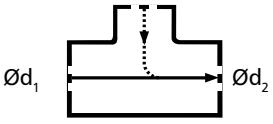
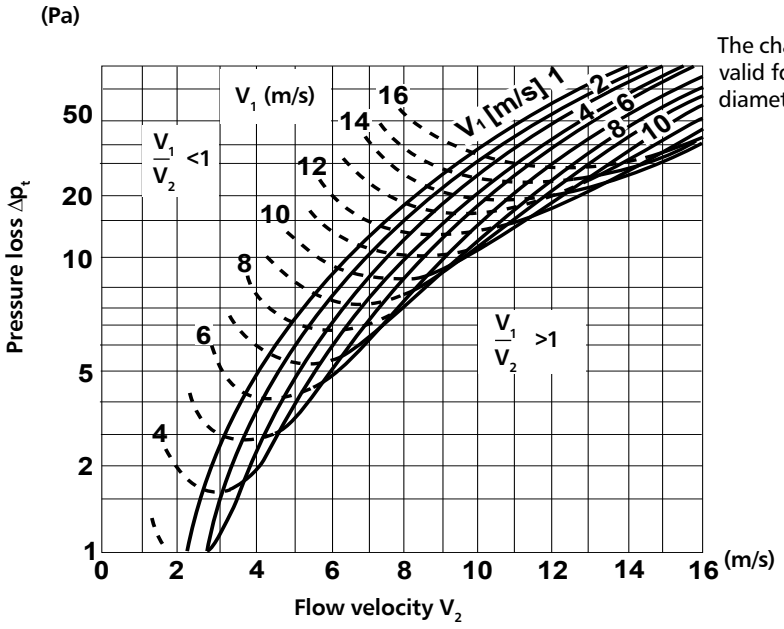
T-pieces and X-pieces

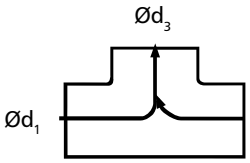
TPCL/XPCL/TPC/XPC

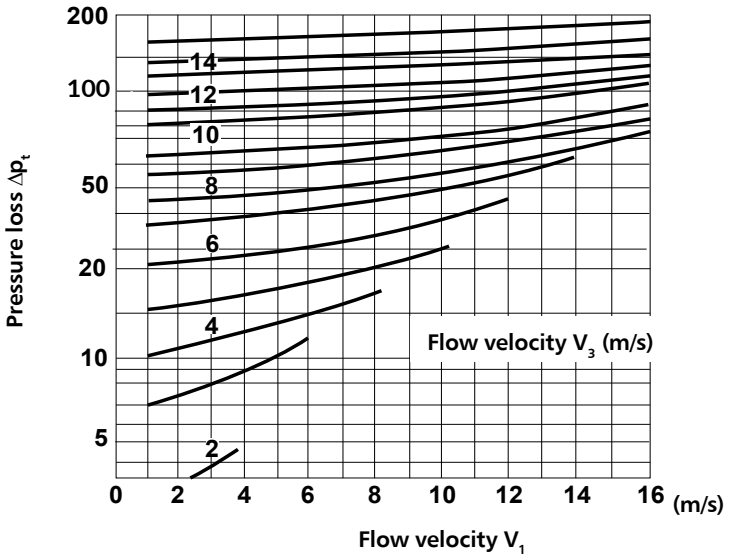
Technical specifications





The chart is valid for a reduced diameter Ød1.





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V_2 – average flow velocity across d_2
V_3 – average flow velocity across d_3

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