

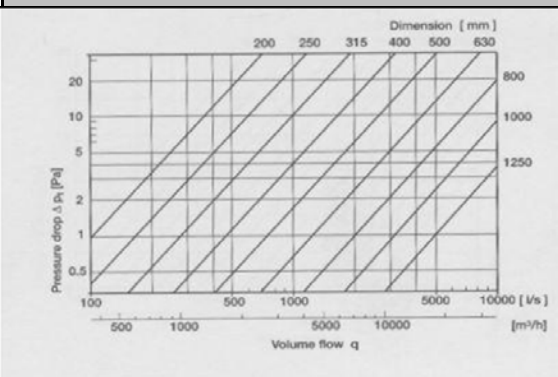
BF 30°



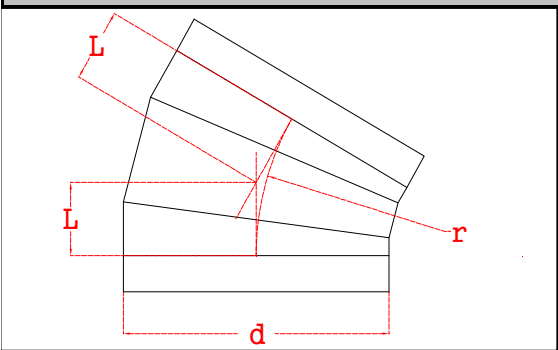
Dimensions

d (in)	L (mm)
5	42
6	48
7	52
8	55
9	59
10	67
12	80
14	95
16	107
18	122
20	135
22	151
24	163
26	175
28	192
30	204
32	216
36	244
40	270
44	302

Technical data



Dimensions



Description

برای سفارش
کد محصول:

Type
Ø d

BF30° aa

$r = d$

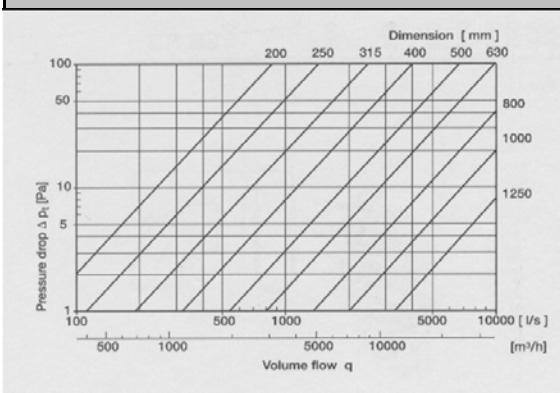
BF 60°



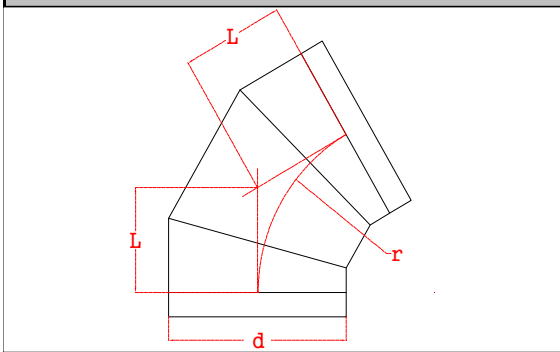
Dimensions

d (in)	L (mm)
5	70
6	86
7	102
8	115
9	131
10	144
12	174
14	205
16	232
18	260
20	290
22	325
24	350
26	380
28	414
30	436
32	466
36	523
40	581
44	650

Technical data



Dimensions



Description

برای سفارش
کد محصول:

Type
Ø d

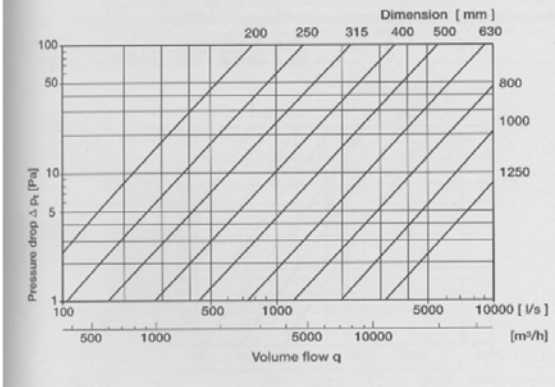
BF60° aa

$r = d$

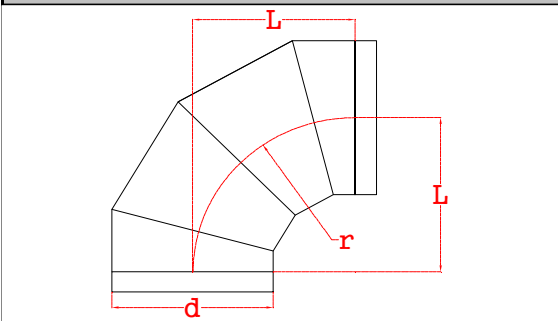
BF 90°



Technical data



Dimensions



Dimensions

d (in)	L (mm)
5	127
6	152
7	177
8	203
9	228
10	254
12	304
14	355
16	406
18	457
20	508
22	559
24	609
26	660
28	711
30	762
32	813
36	914
40	1016
44	1118

Description

برای سفارش
کد محصول:

Type
Ø d

BF90° aa

$r = d$

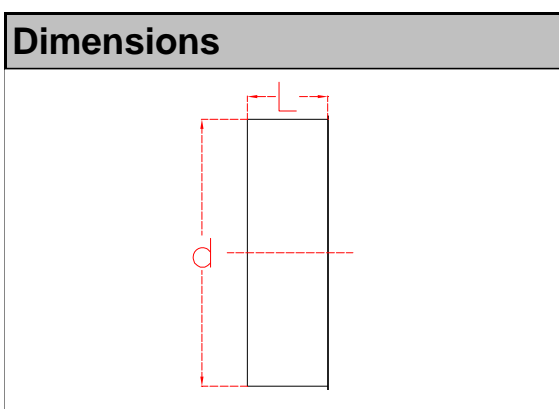


Dimensions	
d (in)	L (mm)
5	40
6	40
7	40
8	40
9	60
10	60
12	60
14	80
16	80
18	80
20	80
22	80
24	80
26	100
28	100
30	100
32	100
36	100
40	120
44	120

Description

برای سفارش
کد محصول:

Type ← EC aa
Ø d ←



Male



Dimensions

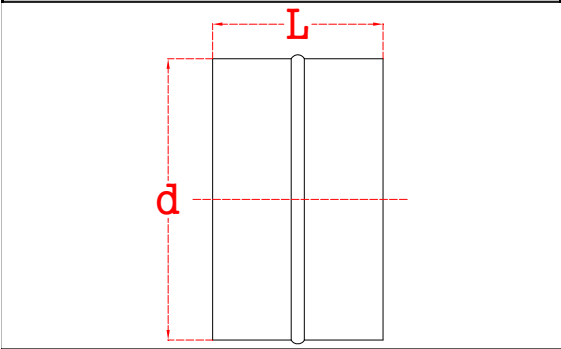
d (in)	L (mm)
5	90
6	90
7	90
8	90
9	135
10	135
12	135
14	135
16	175
18	175
20	175
22	175
24	175
26	175
28	215
30	215
32	215
36	260
40	260
44	260

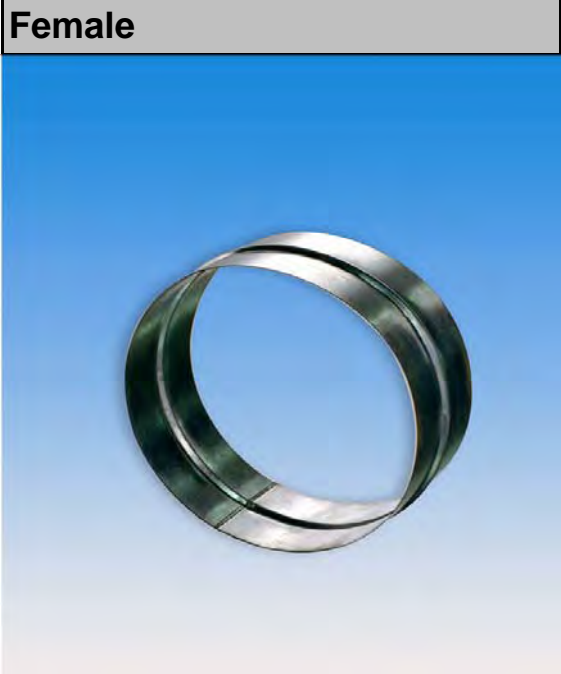
Description

براي سفارش
كد محصول:

Type
Ø d

Dimensions





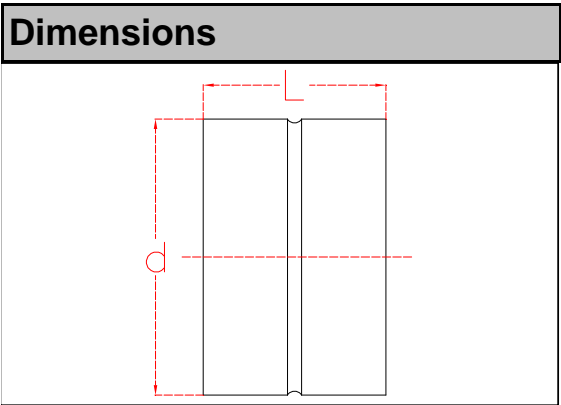
Dimensions	
d (in)	L (mm)
5	90
6	90
7	90
8	90
9	135
10	135
12	135
14	135
16	175
18	175
20	175
22	175
24	175
26	175
28	215
30	215
32	215
36	260
40	260
44	260

Description

براي سفارش
كد محصول:

Type
Ø d

MF aa



DC



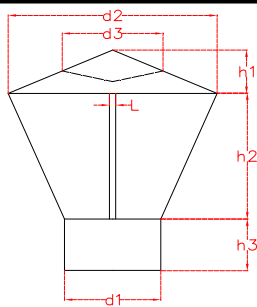
Description

براي سفارش
كد محصول:

Type
 $\varnothing d1$

DC aa

Dimensions



DC**Dimensions**

d1 (in)	d2 (mm)	d3 (mm)	h1 (mm)	h2 (mm)	h3 (mm)	L (mm)
5	250	145	60	80	80	40
6	300	170	80	85	80	60
7	360	200	100	110	100	60
8	400	220	100	120	120	60
9	450	245	110	135	120	80
10	500	270	110	150	120	80
12	630	335	130	180	120	80
14	710	370	130	200	150	80
16	800	420	130	220	150	80
18	900	470	130	250	200	80
20	1000	520	150	270	200	80
22	1120	580	150	300	200	80
24	1260	650	150	330	220	80
26	1320	680	150	350	220	80
28	1420	730	160	370	200	80
30	1490	780	165	395	220	80
32	1600	820	170	420	240	80
36	1800	920	180	470	240	80
40	2000	1020	200	520	240	80
44	2200	1140	220	570	240	80

RCL



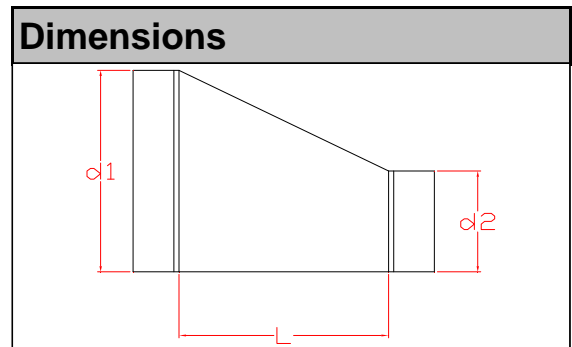
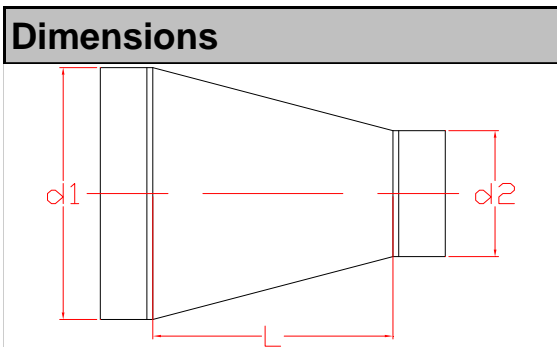
RL



Description	
Type	RCL
$\varnothing d1$	aa
$\varnothing d2$	bb

برای سفارش
کد محصول:

RL برای تبدیل نامتقارن .



RCL	RL
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Dimensions					
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d1 (in)	d2 (in)	L (mm)
5	4	64
6	4	100
	5	64
7	4	140
	5	106
	6	119
8	4	167
	5	133
	6	100
	7	119
9	4	200
	5	166
	6	132
	7	90
	8	63
10	4	236
	5	202
	6	167
	7	126
	8	99
	9	66
12	5	270
	6	236
	7	180
	8	167
	9	135
	10	100
14	6	300
	7	270
	8	243
	9	210
	10	174
	12	106
16	6	365
	7	340
	8	310
	9	277
	10	241
	12	172

d1 (in)	d2 (in)	L (mm)
16	14	100
18	8	378
	9	346
	10	310
	12	241
	14	166
20	16	109
	8	447
	9	414
	10	378
	12	310
22	14	234
	16	177
	18	109
	10	461
	12	392
24	14	317
	16	260
	18	191
	20	122
	10	516
26	12	447
	14	372
	16	315
	18	246
	20	200
	22	95
28	10	565
	12	515
	14	465
	16	410
	18	340
	20	234
28	22	180
	24	103
	14	528
	16	471
	18	402
	20	335
28	22	251
	24	196

RCL**RL****Dimensions**

d1 (in)	d2 (in)	L (mm)
28	26	140
30	14	584
	16	536
	18	465
	20	395
	22	323
	24	260
	26	205
	28	174
32	16	594
	18	526
	20	457
	22	375
	24	320
	26	230
	28	174
	30	102
36	16	685
	18	663
	20	594
	22	512
	24	457
	26	364
	28	311
	30	250
	32	187
40	20	732
	22	649
	24	594
	26	500
	28	448
	30	385
	32	325
	36	187
44	20	900
	22	814
	24	759
	26	665
	28	613
	30	550
	32	490
	36	352

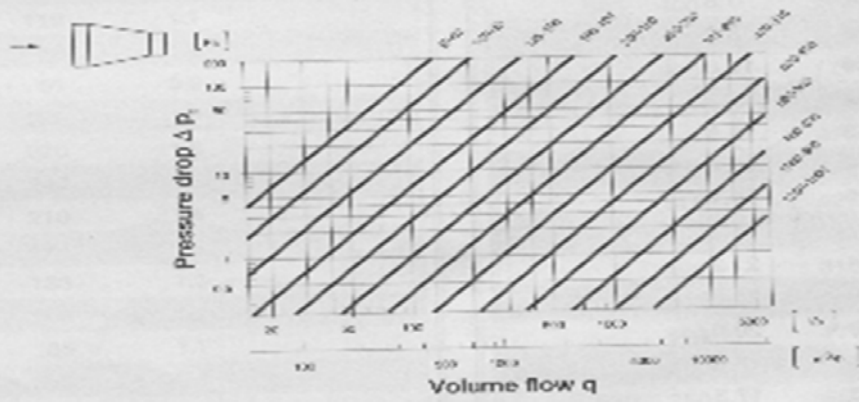
d1 (in)	d2 (in)	L (mm)
44	40	215

RCL

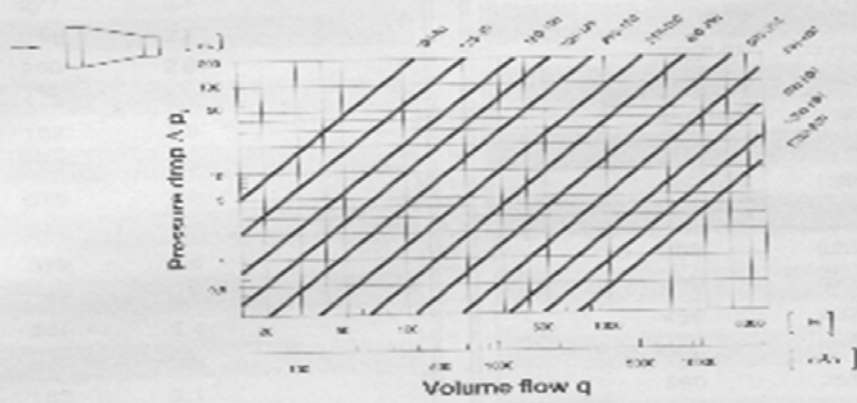
RL

Technical data

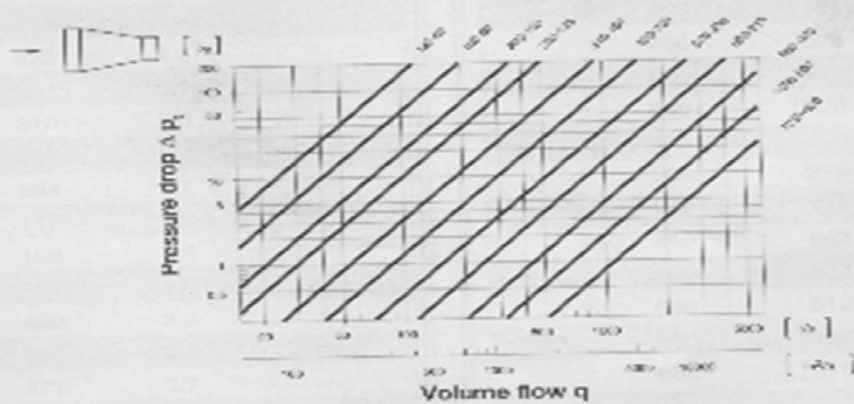
RCLU 1st step reduction



RCLU 2nd step reduction



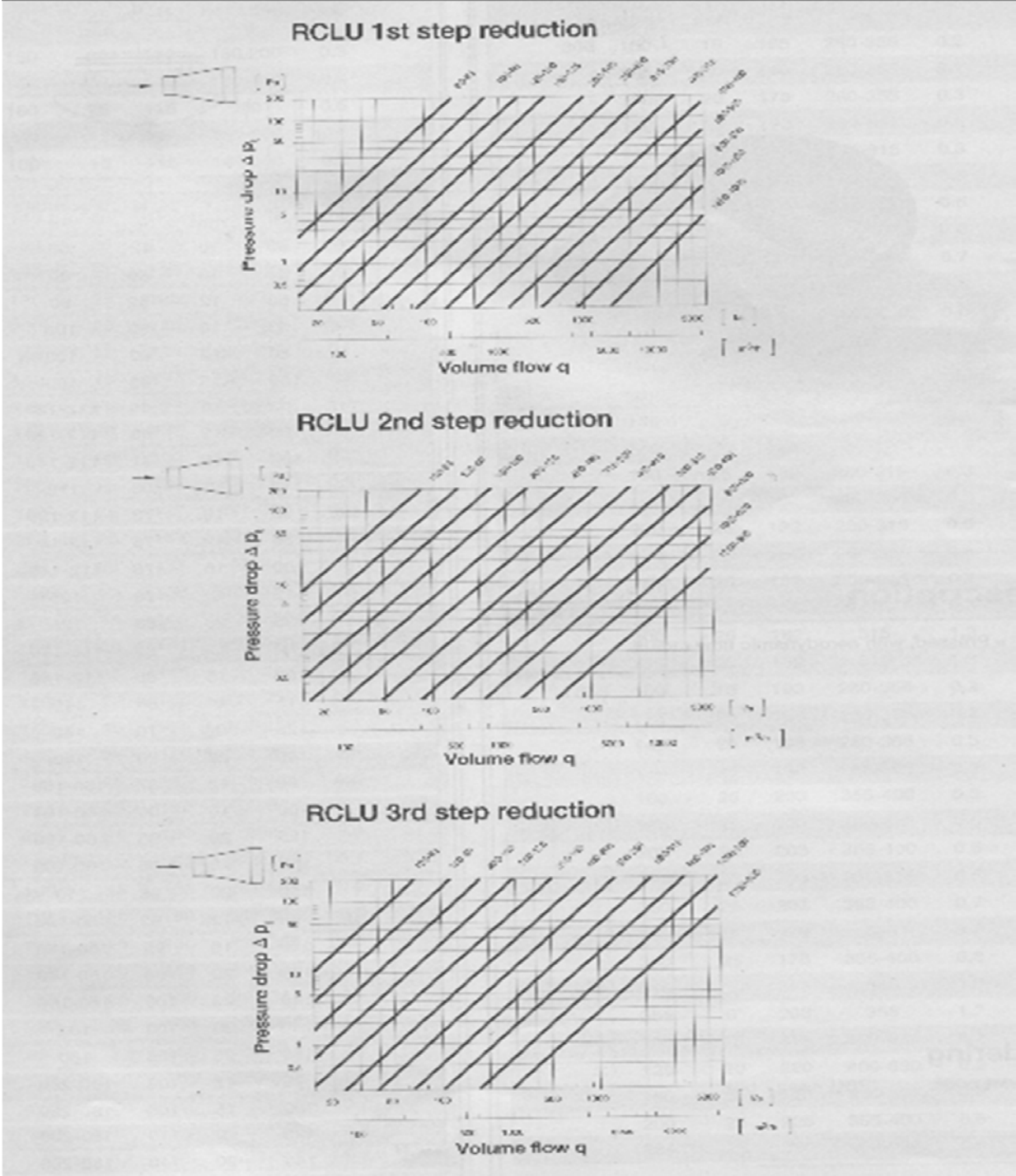
RCLU 3rd step reduction



RCL

RL

Technical data



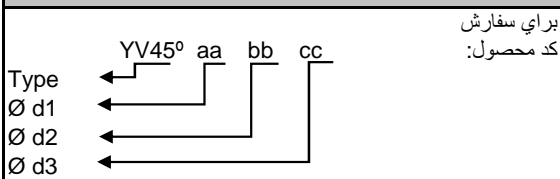
Yv 45°



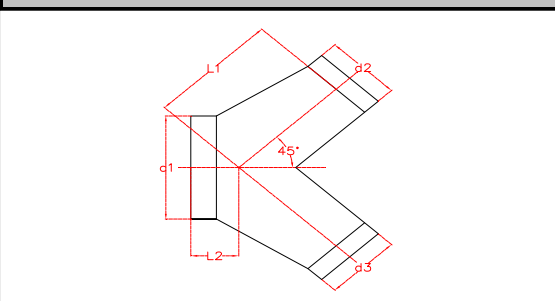
Dimensions

d1 (in)	d2 (in)	L1 (mm)	L2 (mm)
6	4	150	70
7	5	150	70
8	6	230	70
9	6	200	70
10	6	280	80
	7	280	80
	8	280	80
12	7	280	80
	8	280	80
	9	280	80
14	9	365	100
	10	365	100
	12	365	100
16	10	410	100
	12	410	100
	14	410	100
18	10	440	100
	12	440	100
	14	400	100
20	12	480	100
	14	490	100
	16	450	120
22	14	550	120
	16	550	120
	18	550	140
24	14	550	100
	16	580	120
	18	580	130
26	16	580	120
	18	610	120
	20	580	140
28	18	670	140
	20	670	150
	22	670	170

Description



Dimensions



Yv 45°

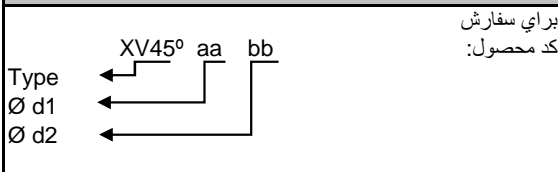
Dimensions

d1 (in)	d2 (in)	L1 (mm)	L2 (mm)
30	20	700	140
	22	700	150
	24	700	200
32	20	700	140
	22	740	150
	24	740	180
36	24	750	100
	26	850	150
	28	850	180
40	26	920	150
	28	900	150
	30	870	150
44	30	1000	175
	32	950	150
	36	950	200

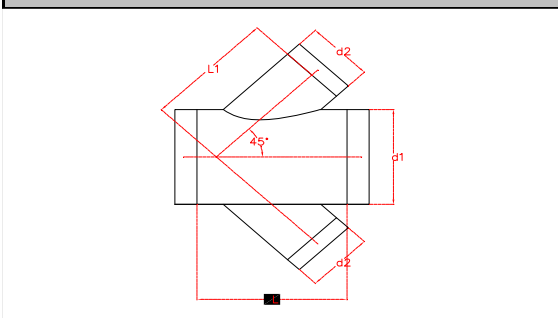
Xv 45°



Description



Dimensions



Dimensions

d1 (in)	d2 (in)	L (mm)	L1 (mm)
5	4	280	210
	5	315	220
6	4	305	225
	5	340	240
	6	380	265
7	4	305	245
	5	340	260
	6	380	285
	7	420	300
8	4	305	260
	5	340	270
	6	380	300
	7	420	315
	8	450	325
9	4	305	275
	5	340	290
	6	380	315
	7	420	330
	8	450	340
	9	480	350
10	4	305	295
	5	340	310
	6	380	335
	7	420	350
	8	450	360
	9	480	370
	10	520	385
12	5	370	350
	6	405	370
	7	445	385
	8	475	395
	9	510	405
	10	545	420
14	6	405	410
	7	445	425
	8	475	435
	9	510	445
	10	545	460
	12	615	500
	14	695	525
16	6	400	430

Xv 45°**Dimensions**

d1 (in)	d2 (in)	L (mm)	L1 (mm)		d1 (in)	d2 (in)	L (mm)	L1 (mm)
16	7	445	455		26	12	665	675
	8	475	465			14	750	695
	9	510	475			16	810	740
	10	545	490			18	880	765
	12	615	530			20	950	790
	14	695	555			22	1040	850
	16	760	580			24	1050	850
18	7	445	490		28	12	665	745
	8	475	500			14	750	775
	9	510	510			16	810	800
	10	545	525			18	880	825
	12	615	565			20	950	850
	14	695	590			22	1040	905
	16	760	615			24	1090	925
20	7	475	535		30	12	580	750
	8	475	535			14	700	800
	9	510	550			16	740	800
	10	545	560			18	780	830
	12	615	600			20	880	855
	14	695	630			22	900	890
	16	760	650			24	1000	930
22	8	475	535		32	12	690	820
	9	565	590			14	750	840
	10	600	605			16	810	860
	12	665	640			18	880	885
	14	750	670			20	950	910
	16	810	690			22	1040	970
	18	880	715			24	1090	990
24	10	600	630		36	14	750	910
	12	665	665			16	810	935
	14	750	690			18	880	960
	16	810	715			20	950	985
	18	880	740			22	1040	1040
	20	950	765					
	22	950	800					
24	950	800						
26	10	600	640					

Xv 45°

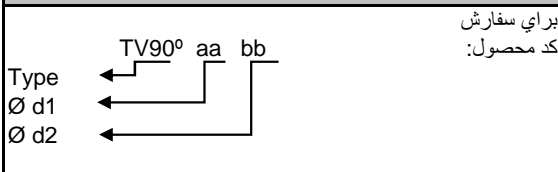
Dimensions

d1 (in)	d2 (in)	L (mm)	L1 (mm)
36	24	1090	1060
	26	1190	1095
	28	1250	1115
	30	1310	1145
	32	1380	1160
	36	1520	1210
40	16	810	1005
	18	880	1030
	20	950	1055
	22	1040	1110
	24	1090	1130
	26	1190	1165
	28	1250	1185
	30	1315	1205
	32	1380	1230
	36	1520	1280
	40	1660	1330
44	20	1005	1140
	22	1090	1195
	24	1140	1215
	26	1250	1250
	28	1305	1270
	30	1370	1295
	32	1430	1345
	36	1570	1365
	40	1710	1415
	44	1880	1505

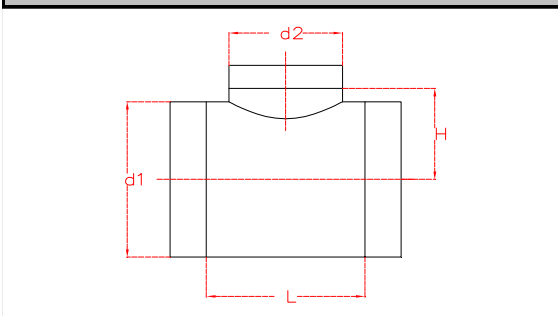
Tv 90°



Description



Dimensions



Dimensions

d1 (in)	d2 (in)	L (mm)	H (mm)
6	4	175	100
	5	215	105
	6	260	105
7	4	175	115
	5	215	120
	6	260	120
	7	285	125
8	4	175	125
	5	215	125
	6	260	130
	7	285	135
	8	281	135
9	5	215	142
	6	260	142
	7	285	147
	8	346	147
	9	346	147
10	5	220	155
	6	255	155
	7	306	160
	8	306	160
	9	350	160
	10	307	160
12	5	220	180
	6	255	180
	7	306	185
	8	306	185
	9	350	185
	10	350	185
	12	430	185
14	6	260	213
	7	270	213
	8	320	213
	9	320	213
	10	350	213
	12	465	213
	14	470	213
16	6	260	235
	7	280	235
	8	340	235
	9	355	235
	10	350	235
	12	430	235

Tv 90°

Dimensions

d1 (in)	d2 (in)	L (mm)	H (mm)		d1 (in)	d2 (in)	L (mm)	H (mm)
16	14	470	235		26	12	450	390
	16	477	235			14	525	400
18	6	260	280	16		580	400	
	7	310	280	18		620	400	
	8	340	280	20		680	405	
	9			22		740	405	
	10	380	270	24		780	405	
	12	465	260	26		810	405	
	14	470	260					
	16	570	270					
20	18	580	270	28	10	380	430	
	6	260	295		12	450	430	
	7	300	295		14	525	440	
	8	330	300		16	570	440	
	9	350	295		18	620	440	
	10	380	295		20	680	445	
	12	460	295		22	740	445	
	14	470	295		24	780	445	
22	16	477	285	30	26	810	445	
	18	520	295		28	890	445	
	20	600	295		10	380	450	
	8	330	330		12	450	460	
	9	350	325		14	525	460	
	10	380	325		16	570	460	
	12	465	325		18	620	460	
	14	500	325		20	680	460	
24	16	570	325	32	22	740	460	
	18	585	325		24	780	460	
	20	590	325		26	810	460	
	22	640	325		28	890	460	
	8	330	350		30	910	460	
	9	350	350		10	380	475	
	10	380	350		12	450	475	
	12	465	350		14	525	485	
26	14	500	350	36	16	570	485	
	16	570	350		18	620	485	
	18	600	350		20	680	490	
	20	670	350		22	740	490	
	22	680	350		24	780	490	
	24	690	350		26	840	490	
	9	355	390		28	890	490	
	10	390	390		30	930	490	
			32	980	490			
			12	465	535			
			14	525	535			

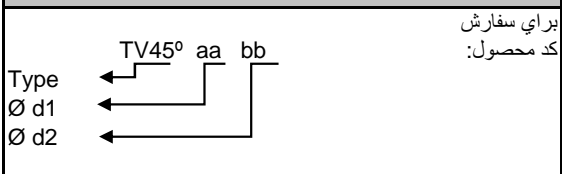
Tv 90°**Dimensions**

d1 (in)	d2 (in)	L (mm)	H (mm)
36	16	570	535
	18	620	540
	20	680	540
	22	740	540
	24	780	540
	26	810	540
	28	890	540
	30	930	540
	32	980	540
	36	1080	540
40	12	465	585
	14	525	585
	16	570	585
	18	620	585
	20	680	590
	22	740	590
	24	780	590
	26	810	630
	28	890	630
	30	930	630
	32	980	630
	36	1080	630
40	1180	590	
44	12	465	645
	14	525	645
	16	570	645
	18	620	650
	20	680	650
	22	740	650
	24	780	650
	26	810	650
	28	890	650
	30	930	650
	32	980	650
	36	1080	650
	40	1180	650
	44	1300	650

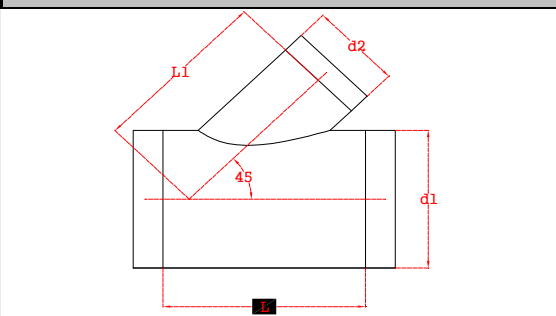
Tv 45°



Description



Dimensions



Dimensions

d1 (in)	d2 (in)	L (mm)	L1 (mm)
5	4	280	210
	5	315	220
6	4	305	225
	5	340	240
	6	380	265
7	4	305	245
	5	340	260
	6	380	285
	7	420	300
8	4	305	260
	5	340	270
	6	380	300
	7	420	315
	8	450	325
9	4	305	275
	5	340	290
	6	380	315
	7	420	330
	8	450	340
	9	480	350
10	4	305	295
	5	340	310
	6	380	335
	7	420	350
	8	450	360
	9	480	370
	10	520	385
12	5	370	350
	6	405	370
	7	445	385
	8	475	395
	9	510	405
	10	545	420
14	12	615	460
	6	405	410
	7	445	425
	8	475	435
	9	510	445
	10	545	460
	12	615	500
16	14	695	525
	6	400	430

Tv 45°

Dimensions

d1 (in)	d2 (in)	L (mm)	L1 (mm)		d1 (in)	d2 (in)	L (mm)	L1 (mm)
16	7	445	455		26	12	665	675
	8	475	465			14	750	695
	9	510	475			16	810	740
	10	545	490			18	880	765
	12	615	530			20	950	790
	14	695	555			22	1040	850
	16	760	580			24	1050	850
18	7	445	490		26	1050	850	
	8	475	500		28	12	665	745
	9	510	510			14	750	775
	10	545	525			16	810	800
	12	615	565			18	880	825
	14	695	590			20	950	850
	16	760	615			22	1040	905
18	830	640	24	1090		925		
20	7	475	535	26	1100	940		
	8	475	535	28	1100	950		
	9	510	550	30	12	580	750	
	10	545	560		14	700	800	
	12	615	600		16	740	800	
	14	695	630		18	780	830	
	16	760	650		20	880	855	
	18	830	675		22	900	890	
20	900	700	24		1000	930		
			26		1140	1000		
22	8	475	535	28	1170	970		
	9	565	590	30	1200	1000		
	10	600	605	32	12	690	820	
	12	665	640		14	750	840	
	14	750	670		16	810	860	
	16	810	690		18	880	885	
	18	880	715		20	950	910	
20	950	740	22		1040	970		
22	950	780	24		1090	990		
24	10	600	630	26	1140	1005		
	12	665	665	28	1250	1045		
	14	750	690	30	1250	1050		
	16	810	715	32	1250	1050		
	18	880	740	36	14	750	910	
	20	950	765		16	810	935	
	22	950	800		18	880	960	
	24	950	800		20	950	985	
			22		1040	1040		
26	10	600	640					

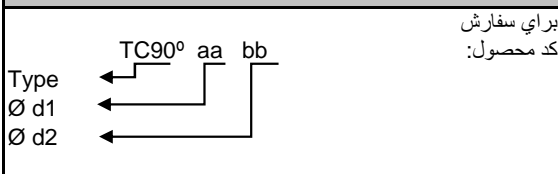
Tv 45°**Dimensions**

d1 (in)	d2 (in)	L (mm)	L1 (mm)
36	24	1090	1060
	26	1190	1095
	28	1250	1115
	30	1310	1145
	32	1380	1160
	36	1520	1210
40	16	810	1005
	18	880	1030
	20	950	1055
	22	1040	1110
	24	1090	1130
	26	1190	1165
	28	1250	1185
	30	1315	1205
	32	1380	1230
	36	1520	1280
	40	1660	1330
44	20	1005	1140
	22	1090	1195
	24	1140	1215
	26	1250	1250
	28	1305	1270
	30	1370	1295
	32	1430	1345
	36	1570	1365
	40	1710	1415
	44	1880	1505

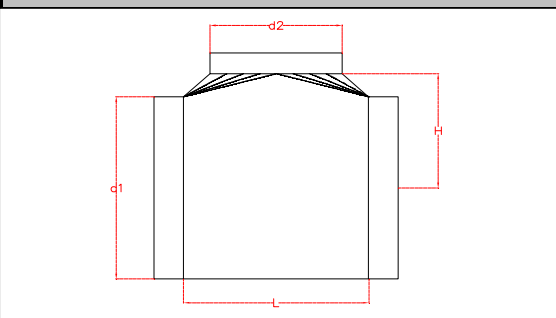
TC 90°



Description



Dimensions



Dimensions

d1 (in)	d2 (in)	L (mm)	H (mm)
6	4	175	100
	5	215	105
	6	260	105
7	4	175	115
	5	215	120
	6	260	120
	7	285	125
8	4	175	125
	5	215	125
	6	260	130
	7	285	135
	8	281	135
9	5	215	142
	6	260	142
	7	285	147
	8	346	147
	9	346	147
10	5	220	155
	6	255	155
	7	306	160
	8	306	160
	9	350	160
	10	307	160
12	5	220	180
	6	255	180
	7	306	185
	8	306	185
	9	350	185
	10	350	185
	12	430	185
14	6	260	213
	7	270	213
	8	320	213
	9	320	213
	10	350	213
	12	465	213
	14	470	213
16	6	260	235
	7	280	235
	8	340	235
	9	355	235
	10	350	235
	12	430	235

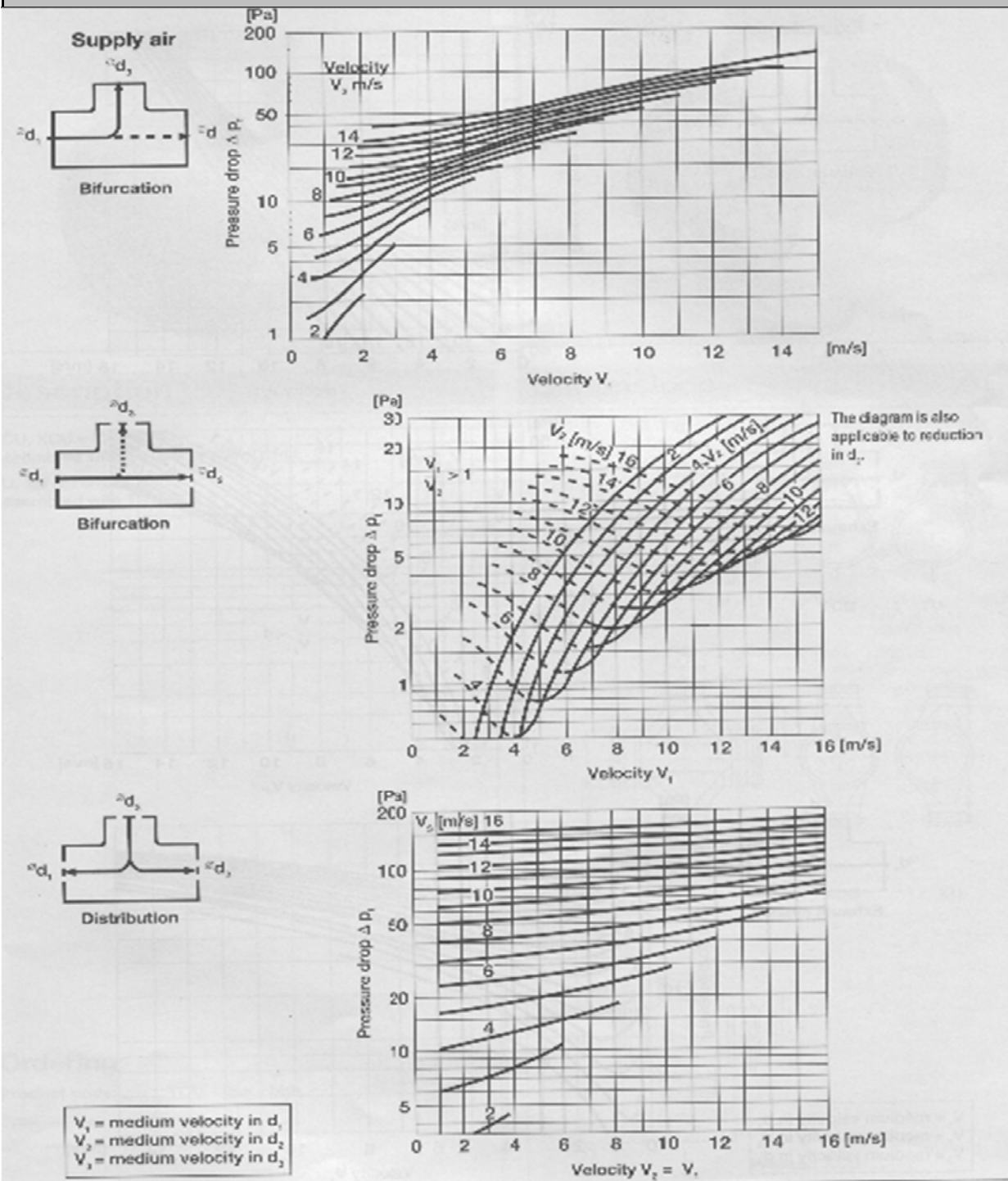
TC 90°

Dimensions									
d1 (in)	d2 (in)	L (mm)	H (mm)		d1 (in)	d2 (in)	L (mm)	H (mm)	
16	14	470	235		26	12	450	390	
	16	477	235			14	525	400	
18	6	260	280			16	580	400	
	7	310	280			18	620	400	
	8	340	280			20	680	405	
	9					22	740	405	
	10	380	270			24	780	405	
	12	465	260			26	810	405	
	14	470	260						
	16	570	270						
20	18	580	270		28	10	380	430	
	6	260	295			12	450	430	
	7	300	295			14	525	440	
	8	330	300			16	570	440	
	9	350	295			18	620	440	
	10	380	295			20	680	445	
	12	460	295			22	740	445	
	14	470	295			24	780	445	
22	16	477	285		30	26	810	445	
	18	520	295			28	890	445	
	20	600	295			10	380	450	
	8	330	330			12	450	460	
	9	350	325			14	525	460	
	10	380	325			16	570	460	
	12	465	325			18	620	460	
	14	500	325			20	680	460	
24	16	570	325		32	22	740	460	
	18	585	325			24	780	460	
	20	590	325			26	810	460	
	22	640	325			28	890	460	
	8	330	350			30	910	460	
	9	350	350			10	380	475	
	10	380	350			12	450	475	
	12	465	350			14	525	485	
26	14	500	350		36	16	570	485	
	16	570	350			18	620	485	
	18	600	350			20	680	490	
	20	670	350			22	740	490	
	22	680	350			24	780	490	
	24	690	350			26	830	490	
	9	355	390			28	890	490	
	10	390	390			30	930	490	
			32	980	490				

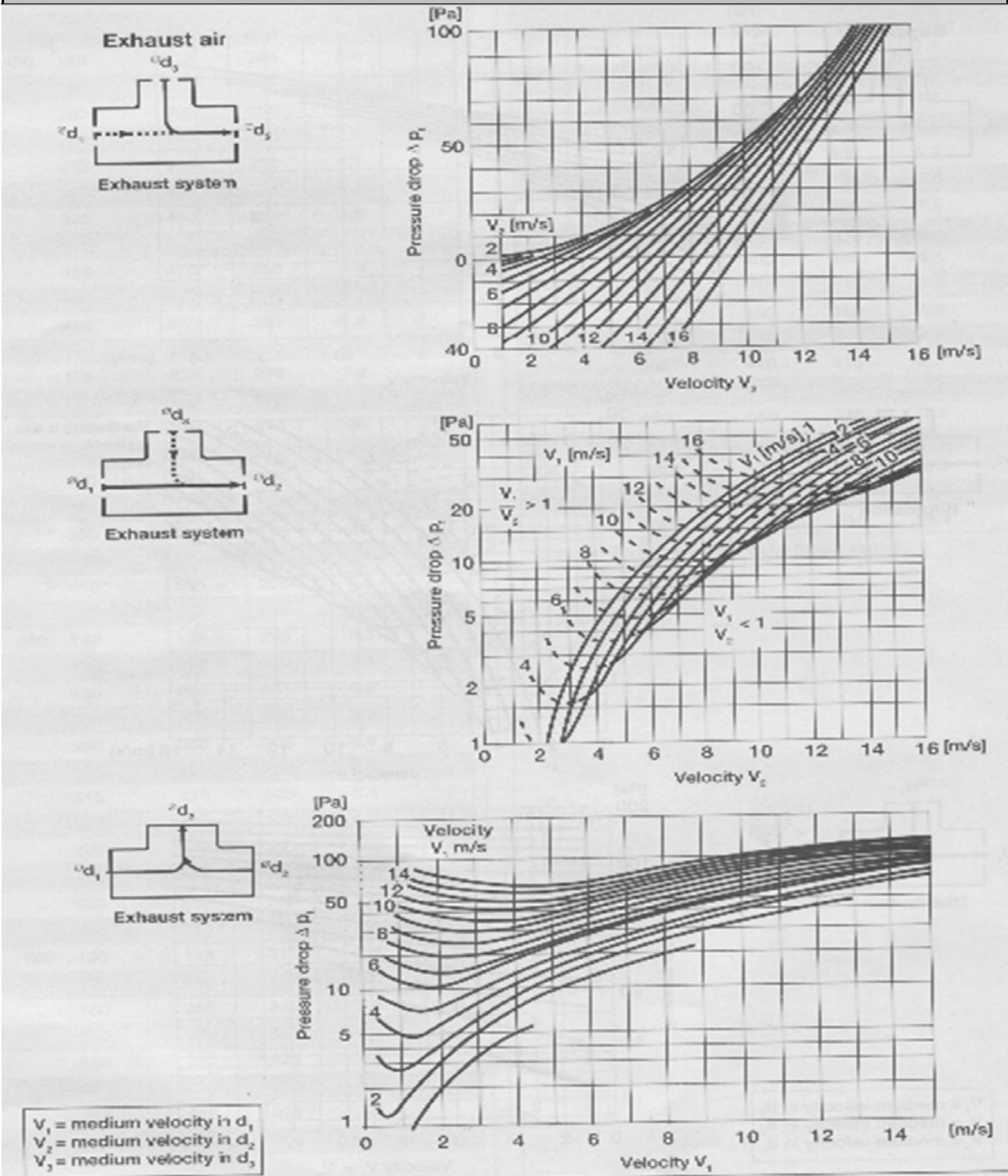
TC 90°**Dimensions**

d1 (in)	d2 (in)	L (mm)	H (mm)
36	16	570	535
	18	620	540
	20	680	540
	22	740	540
	24	780	540
	26	810	540
	28	890	540
	30	930	540
	32	980	540
	36	1080	540
40	12	465	585
	14	525	585
	16	570	585
	18	620	585
	20	680	590
	22	740	590
	24	780	590
	26	810	630
	28	890	630
	30	930	630
	32	980	630
	36	1080	630
40	1180	590	
44	12	465	645
	14	525	645
	16	570	645
	18	620	650
	20	680	650
	22	740	650
	24	780	650
	26	810	650
	28	890	650
	30	930	650
	32	980	650
	36	1080	650
	40	1180	650
	44	1300	650

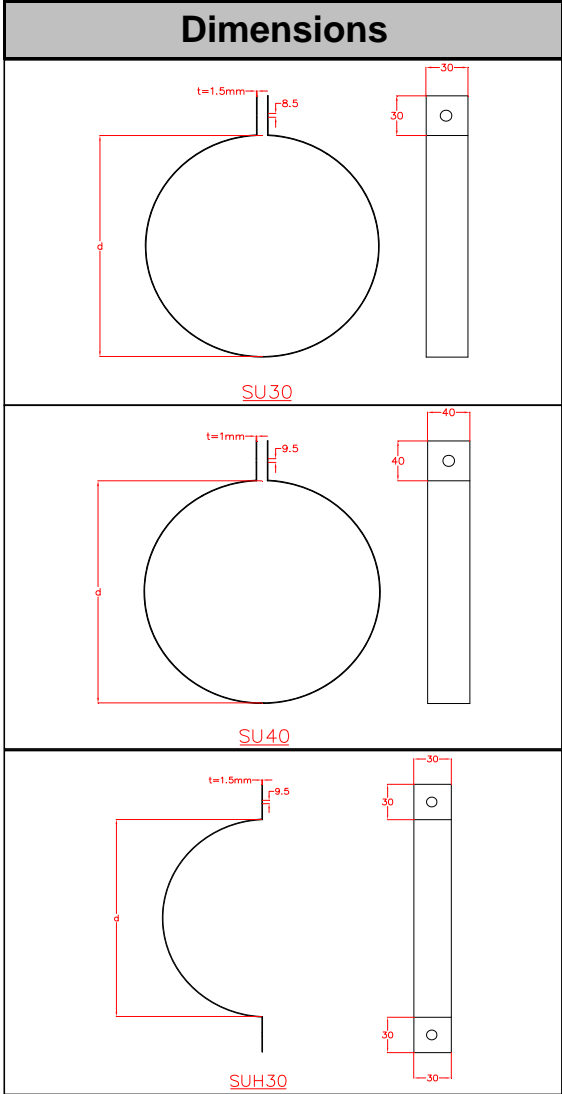
Technical data



Technical data



Support



Description	
Type $\varnothing d$	
براي سفارش کد محصول:	

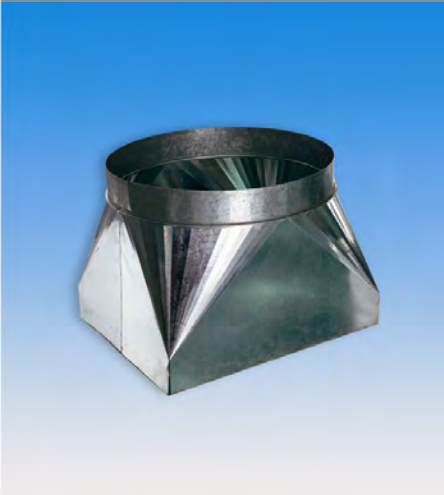
Support

Dimensions

support su40				support su30 , suh30				
d	thikness	L	Lengh	d	thikness	L	Lengh	
(in)	(mm)	(mm)	m				su30	suh30
				(in)	(mm)	(mm)	m	m
5	1.5	40	0.4945	5	1.5	30	0.4745	0.2751
6	1.5	40	0.5742	6	1.5	30	0.5542	0.3150
7	1.5	40	0.6540	7	1.5	30	0.6340	0.3548
8	1.5	40	0.7337	8	1.5	30	0.7137	0.3947
9	1.5	40	0.8135	9	1.5	30	0.7935	0.4346
10	3	40	0.8933	10	3	30	0.8733	0.4745
12	3	40	1.0528	12	3	30	1.0328	0.5542
14	3	40	1.2123	14	3	30	1.1923	0.6340
16	3	40	1.3718	16	3	30	1.3518	0.7137
18	3	40	1.5313	18	3	30	1.5113	0.7935
20	3	40	1.6908	20	3	30	1.6708	0.8733
22	3	40	1.8503	22	3	30	1.8303	0.9530
24	3	40	2.0098	24	3	30	1.9898	1.0328
26	3	40	2.1694	26	3	30	2.1494	1.1125
28	3	40	2.3289	28	3	30	2.3089	1.1923
30	3	40	2.4884	30	3	30	2.4684	1.2720
32	3	40	2.6479	32	3	30	2.6279	1.3518
36	3	40	2.9669	36	3	30	2.9469	1.5113
40	3	40	3.2859	40	3	30	3.2659	1.6708
44	3	40	3.6050	44	3	30	3.5850	1.8303

اتصالات دیگر

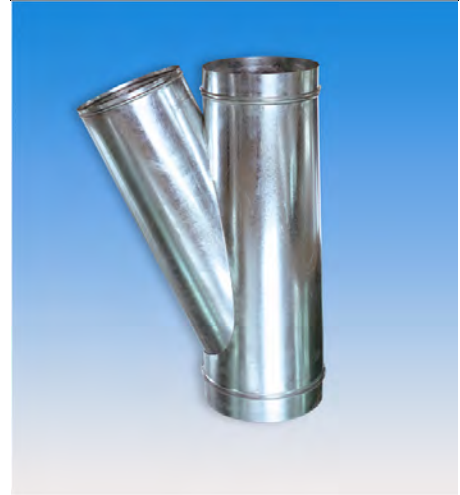
تبدیل گرد به چهار گوش



Description

برای سفارش
 کد محصول: R - S aa bb cc
 Type
 Ø d1
 L 1
 L 2

سه راهی تبدیل ۱۵ درجه



Description

برای سفارش
 کد محصول: TVRCL 15 aa bb cc
 Type
 Ø d1
 Ø d2
 Ø d3

سه راهی تبدیل ۹۰ درجه



Description

برای سفارش
 کد محصول: TVRCL 90 aa bb cc
 Type
 Ø d1
 Ø d2
 Ø d3

چهار راهی تبدیل ۴۵ درجه



Description

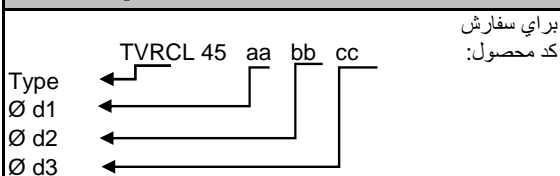
برای سفارش
 کد محصول: XVRCL 45 aa bb cc dd
 Type
 Ø d1
 Ø d2
 Ø d3
 Ø d4

اتصالات دیگر

سه راهی تبدیل ۴۵ درجه



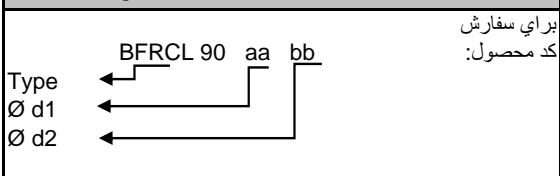
Description



زانو تبدیل ۹۰ درجه



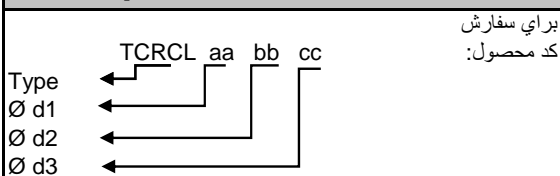
Description



سه راهی تبدیل قوسدار



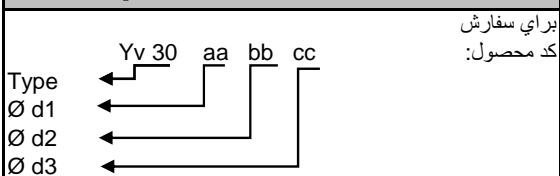
Description



سه راهی شلواره ۳۰°



Description



چهارراهی با تقسیم داخلی



اتصال تغییر جهت

