

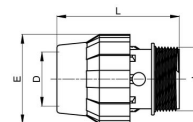
Compressed air piping system Series SPEEDLINE



Design type	Screw fitting with O-ring and retaining clip
Tube outside diameter	16...110mm
Properties	high flow rates, leak-free compressed air network, simple expansion option, silicone-free, shock-resistant
Materials	Version PA6: Body, Union nut and Compression ring PA6 Version Aluminium: Body, Union nut and Compression ring Aluminium Holding clamp Stainless steel 1.4310, O-ring NBR
recommended Tube materials	Aluminium tubes, Plastic tubing, Multilayer composite pipe Series SPEEDLINE
Medium	Compressed air, Vacuum (Liquids and other gases on request)
Medium temperature	Fitting series PA6: -15...+65°C Fitting series Aluminium: -30...+80°C
Operating pressure	0...16bar, Vacuum -0,99bar
Approvals	ROHS-compliant



Straight male connector, Thread tapered

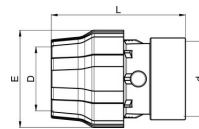


Thread d	Tube outside diameter D [mm]	E	L	Insertion depth [mm]	Weight [g]	Material	Type
R1/2"	16	37	64	38	30	PA6	SC12C-16-12-DD
R1/2"	20	45	68	48	60	PA6	SC12C-20-12-DD
R3/4"	20	45	68	48	60	PA6	SC12C-20-34-DD
R1/2"	25	51	71	52	80	PA6	SC12C-25-12-DD
R3/4"	25	51	73	52	80	PA6	SC12C-25-34-DD
R1"	25	51	76	52	80	PA6	SC12C-25-10-DD
R1"	32	61	85	62	120	PA6	SC12C-32-10-DD
R1 1/4"	32	61	87	62	130	PA6	SC12C-32-114-DD
R1"	40	75	96	70	200	PA6	SC12C-40-10-DD
R1 1/4"	40	75	97	70	200	PA6	SC12C-40-114-DD
R1 1/2"	40	75	98	70	200	PA6	SC12C-40-112-DD
R1 1/2"	50	87	108	79	300	PA6	SC12C-50-112-DD
R2"	50	87	111	79	290	PA6	SC12C-50-20-DD
R2"	63	108	115	80,5	350	PA6	SC12C-63-20-DD

Thread d	Tube outside diameter D [mm]	E	L	Insertion depth [mm]	Weight [g]	Material	Type
R1/2"	20	38	53	37	43	Aluminium	SC12C-20-12-AA
R3/4"	20	38	53	37	45	Aluminium	SC12C-20-34-AA
R3/4"	25	45	58	45	63	Aluminium	SC12C-25-34-AA
R1"	25	45	58	45	68	Aluminium	SC12C-25-10-AA
R1 1/4"	32	56	81	56	150	Aluminium	SC12C-32-114-AA
R1 1/2"	40	62	94	77	322	Aluminium	SC12C-40-112-AA
R2"	50	81	106	75	457	Aluminium	SC12C-50-20-AA
R2"	63	97	130	95	518	Aluminium	SC12C-63-20-AA
R2 1/2"	63	97	130	95	545	Aluminium	SC12C-63-212-AA
R2 1/2"	80	116	152	114	907	Aluminium	SC12C-80-212-AA
R3"	80	116	155	114	1027	Aluminium	SC12C-80-30-AA



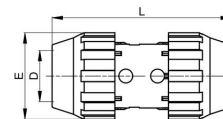
Straight male stud fitting



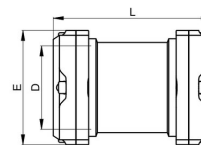
Thread d	Tube outside diameter D [mm]	E	L	Insertion depth [mm]	Weight [g]	Material	Type
RP1/2"	20	38	77	37	44	Aluminium	SC13-20-12-AA
RP3/4"	20	38	77	37	45	Aluminium	SC13-20-12-AA
RP3/4"	25	45	95	45	68	Aluminium	SC13-25-34-AA
RP1"	25	45	95	45	70	Aluminium	SC13-25-10-AA
RP1 1/4"	32	56	120	56	157	Aluminium	SC13-32-114-AA
RP1 1/2"	40	62	156	77	335	Aluminium	SC13-40-112-AA
RP2"	50	81	165	75	468	Aluminium	SC13-50-20-AA
RP2 1/2"	63	97	193	95	582	Aluminium	SC13-63--212-AA

Straight connector, with tube stop

Tube outside diameter 20...80mm



Tube outside diameter 110mm

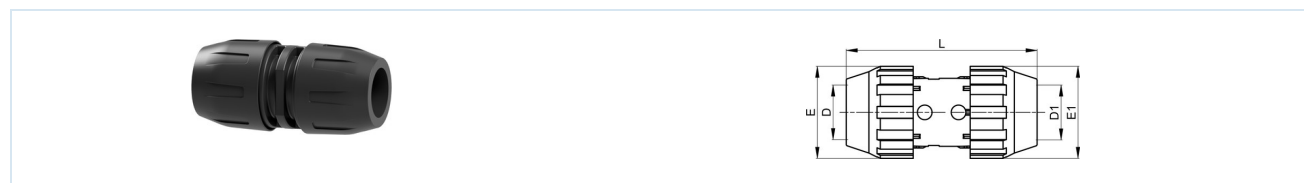


Tube outside diameter D [mm]	E	L	Insertion depth [mm]	Weight [g]	Material	Type
16	37	81	38	50	PA6	SC13-16-DD
20	45	98	48	90	PA6	SC13-20-DD
25	51	106	52	132	PA6	SC13-25-DD
32	61	124	62	212	PA6	SC13-32-DD
40	75	142	70	350	PA6	SC13-40-DD
50	87	161	79	505	PA6	SC13-50-DD
63	108	170	80,5	570	PA6	SC13-63-DD

Tube outside diameter D [mm]	E	L	Insertion depth [mm]	Weight [g]	Material	Type
20	38	77	37	64	Aluminium	SC13-20-AA
25	45	95	45	100	Aluminium	SC13-25-AA
32	56	120	56	233	Aluminium	SC13-32-AA
40	62	156	77	283	Aluminium	SC13-40-AA
50	81	165	75	590	Aluminium	SC13-50-AA
63	97	193	95	966	Aluminium	SC13-63-AA
80	116	232	114	1492	Aluminium	SC13-80-AA
110	153	211	104	1762	Aluminium	SC13-110-AA



Straight connector (Reducer), with tube stop



Tube outside diameter D [mm]	Tube outside diameter D1 [mm]	E	E1	L	Insertion depth [mm]	Insertion depth 1 [mm]	Weight [g]	Material	Type
20	25	45	51	81	48	52	120	PA6	SC13-20-25-DD
25	32	51	61	98	52	62	178	PA6	SC13-25-32-DD
25	40	51	75	106	52	70	230	PA6	SC13-25-40-DD
32	40	61	75	124	62	70	290	PA6	SC13-32-40-DD
40	50	75	87	142	70	79	450	PA6	SC13-40-50-DD

Straight slip-on connector, without tube stop, movable when loose

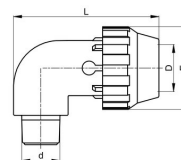


Tube outside diameter D [mm]	E	L	Insertion depth [mm]	Weight [g]	Material	Type
32	61	124	62	212	PA6	SC13-32-DD-B
40	75	142	70	350	PA6	SC13-40-DD-B
50	87	161	79	505	PA6	SC13-50-DD-B
63	108	170	80,5	570	PA6	SC13-63-DD-B

Tube outside diameter D [mm]	E	L	Insertion depth [mm]	Weight [g]	Material	Type
32	56	120	56	230	Aluminium	SC13-32-AA-B
40	62	156	77	280	Aluminium	SC13-40-AA-B
50	81	165	75	586	Aluminium	SC13-50-AA-B
63	97	193	95	962	Aluminium	SC13-63-AA-B
80	116	232	114	1489	Aluminium	SC13-80-AA-B



Male elbow screw-in fitting, Thread tapered

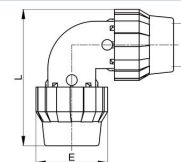


Thread d	Tube outside diameter D [mm]	E	L	Insertion depth [mm]	Weight [g]	Material	Type
R1/2"	20	45	78	48	68	PA6	SC16C-20-12-DD
R1/2"	25	51	87	52	95	PA6	SC16C-25-12-DD
R3/4"	25	51	87	52	95	PA6	SC16C-25-34-DD

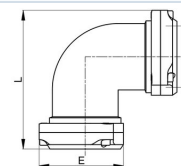
Thread d	Tube outside diameter D [mm]	E	L	Insertion depth [mm]	Weight [g]	Material	Type
R1/2"	20	38	65	37	50	Aluminium	SC16C-20-12-AA
R1/2"	25	45	80	45	80	Aluminium	SC16C-25-12-AA
R3/4"	25	45	80	45	80	Aluminium	SC16C-25-34-AA

Elbow connector

Tube outside diameter 20...80mm



Tube outside diameter 110mm

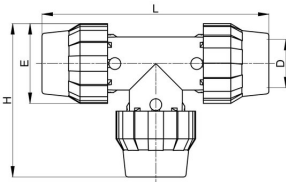
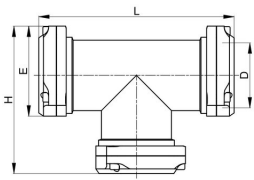


Tube outside diameter D [mm]	E	L	Insertion depth [mm]	Weight [g]	Material	Type
16	37	72	38	70	PA6	SC17-16-DD
20	45	86	48	100	PA6	SC17-20-DD
25	51	95	52	140	PA6	SC17-25-DD
32	61	122	62	240	PA6	SC17-32-DD
40	75	130	70	390	PA6	SC17-40-DD
50	87	152	79	580	PA6	SC17-50-DD
63	108	165	80,5	800	PA6	SC17-63-DD

Tube outside diameter D [mm]	E	L	Insertion depth [mm]	Weight [g]	Material	Type
20	38	72	37	78	Aluminium	SC17-20-AA
25	45	98	45	134	Aluminium	SC17-25-AA
32	56	120	56	275	Aluminium	SC17-32-AA
40	62	130	77	326	Aluminium	SC17-40-AA
50	81	145	75	748	Aluminium	SC17-50-AA
63	97	180	95	1033	Aluminium	SC17-63-AA
80	116	217	114	1770	Aluminium	SC17-80-AA
110	162	251	104	2190	Aluminium	SC-17-110-AA



T-connector

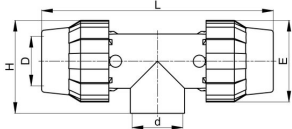
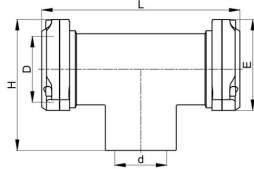
Tube outside diameter 20...80mm		
		
Tube outside diameter 110mm		
		

Tube outside diameter D [mm]	E	L	Insertion depth [mm]	Weight [g]	Material	Type
16	37	109	38	90	PA6	SC29-16-DD
20	45	127	48	160	PA6	SC29-20-DD
25	51	140	52	210	PA6	SC29-25-DD
32	61	170	62	360	PA6	SC29-32-DD
40	75	185	70	565	PA6	SC29-40-DD
50	87	216	79	850	PA6	SC29-50-DD
63	108	235	80,5	1200	PA6	SC29-63-DD

Tube outside diameter D [mm]	E	L	H	Insertion depth [mm]	Weight [g]	Material	Type
20	38	100	46	37	115	Aluminium	SC29-20-AA
25	45	125	52	45	195	Aluminium	SC29-25-AA
32	56	130	65	56	400	Aluminium	SC29-32-AA
40	62	132	70	77	499	Aluminium	SC29-40-AA
50	84	150	100	75	1075	Aluminium	SC29-50-AA
63	97	263	112	95	1453	Aluminium	SC29-63-AA
80	116	318	136	114	2534	Aluminium	SC29-80-AA
110	162	335	227	104	4080	Aluminium	SC29-110-AA



T-connector, Female thread

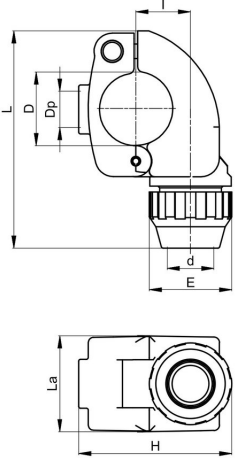
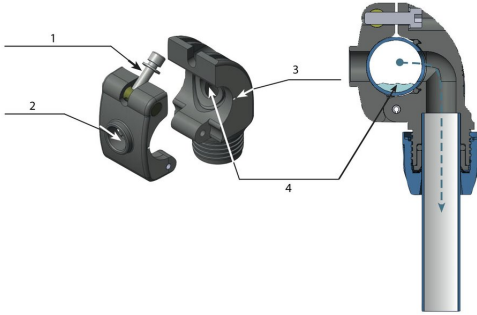
Tube outside diameter 20...80mm		
		
Tube outside diameter 110mm		
		

Thread d	Tube outside diameter D [mm]	E	H	L	Insertion depth [mm]	Weight [g]	Material	Type
RP1/2"	20	45	75	127	48	160	PA6	SC29-20-12-20-DD
RP1/2"	25	51	80	140	52	210	PA6	SC29-25-12-25-DD

Thread d	Tube outside diameter D [mm]	E	H	L	Insertion depth [mm]	Weight [g]	Material	Type
RP1/2"	20	38	46	100	37	89	Aluminium	SC29-20-12-20-AA
RP3/4"	25	45	52	125	45	160	Aluminium	SC29-25-34-25-AA
RP1"	32	56	65	130	56	330	Aluminium	SC29-32-10-32-AA
RP1 1/4"	40	62	70	132	77	366	Aluminium	SC29-40-114-40-AA
RP1 1/2"	50	81	100	150	75	863	Aluminium	SC29-50-112-50-AA
RP2"	63	97	112	263	95	1126	Aluminium	SC29-63-20-63-AA
RP2 1/2"	80	116	136	318	114	2120	Aluminium	SC29-80-212-80-AA
RP3"	110	162	221	335	104	3400	Aluminium	SC29-110-30-110-AA

Pipe branch connection with pipe connection

This branch connection enables a quick additional outlet to be created without dismantling the main line. The compressed air connection is located above the condensate level. The ingress of water into the branch line is prevented.

		 1...Sealing plug 2...Guide borehole 3...Marking 4...Compressed air connection for the outlet above the condensate water level
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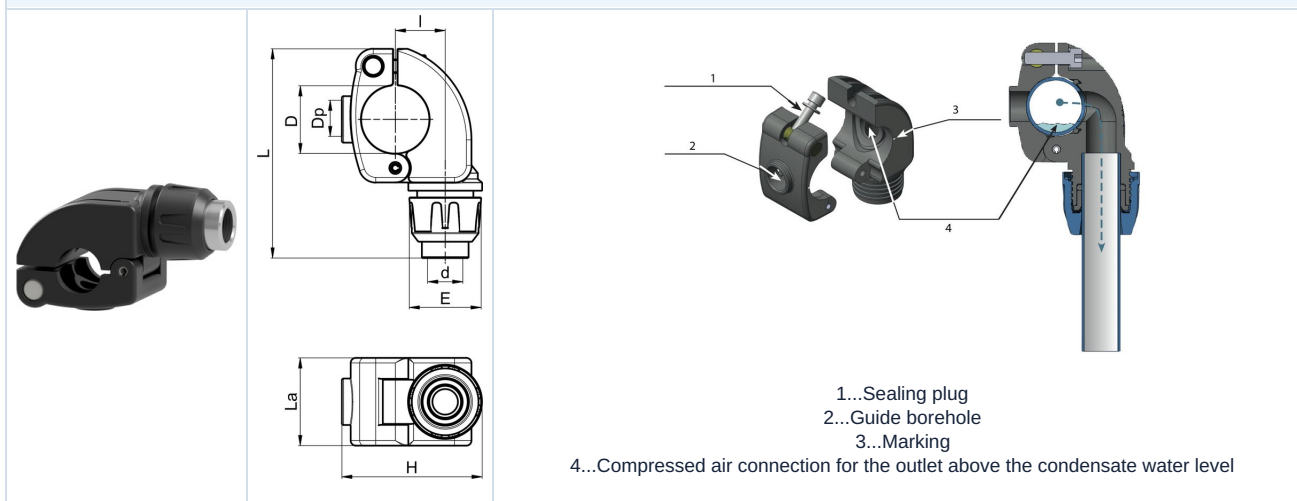
Tube outside diameter Main tube D [mm]	Tube outside diameter Branching d [mm]	Dp	E	H	I	L	La	Insertion depth [mm]	Weight [g]	Material	Type
25	16	16	37	71,5	24,5	113	52	38	220	PA6	SC29-25-16-DD
25	20	16	45	71,5	24,5	113	52	48	230	PA6	SC29-25-20-DD
32	16	16	37	71,5	24,5	113	52	38	220	PA6	SC29-32-16-DD
32	20	16	45	71,5	24,5	113	52	48	220	PA6	SC29-32-20-DD
40	16	20	37	83	29,6	125	52	38	250	PA6	SC29-40-16-DD
40	20	20	37	83	29,6	125	52	48	270	PA6	SC29-40-20-DD
40	25	20	51	83	29,6	125	52	52	280	PA6	SC29-40-25-DD
50	16	20	37	115,5	31	145	60	38	420	PA6	SC29-50-16-DD
50	20	20	45	115,5	31	145	60	48	420	PA6	SC29-50-20-DD
50	25	20	51	115,5	31	145	60	52	430	PA6	SC29-50-25-DD
63	20	20	45	115,5	43	145	60	48	370	PA6	SC29-63-20-DD
63	25	20	51	115,5	43	145	60	52	390	PA6	SC29-63-25-DD
63	32	20	61	115,5	43	148	60	62	390	PA6	SC29-63-32-DD

Tube outside diameter Main tube D [mm]	Tube outside diameter Branching d [mm]	Dp	E	H	I	L	La	Insertion depth [mm]	Weight [g]	Material	Type
25	20	16	45	71,5	24,5	113	52	37	195	Aluminium	SC29-25-20-AA
32	20	16	45	71,5	24,5	113	52	45	200	Aluminium	SC29-32-20-AA
40	20	20	45	83	29,6	125	52	37	250	Aluminium	SC29-40-20-AA
40	25	20	51	83	29,6	125	52	45	260	Aluminium	SC29-40-25-AA
50	20	20	45	115,5	31	145	60	37	315	Aluminium	SC29-50-20-AA
50	25	20	51	115,5	31	145	60	45	323	Aluminium	SC29-50-25-AA
63	20	20	45	115,5	43	145	60	37	360	Aluminium	SC29-63-20-AA
63	25	20	51	115,5	43	145	60	45	372	Aluminium	SC29-63-25-AA
63	32	20	61	115,5	43	145	60	56	420	Aluminium	SC29-63-32-AA
80	20	22,5	45	168	71	220	63	37	1080	Aluminium	SC29-80-20-AA
80	25	22,5	51	168	71	220	63	45	1095	Aluminium	SC29-80-25-AA
80	32	22,5	61	168	71	220	63	56	1140	Aluminium	SC29-80-32-AA
110	20	22,5	45	168	71	220	63	37	830	Aluminium	SC29-110-20-AA
110	25	22,5	51	168	71	220	63	45	830	Aluminium	SC29-110-25-AA
110	32	22,5	61	168	71	220	63	56	850	Aluminium	SC29-110-32-AA



Pipe branch connection with female thread

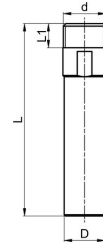
This branch allows a quick additional outlet to be created without dismantling the main line. The compressed air connection is located above the condensate level. The ingress of water into the branch line is prevented.



Tube outside diameter Main tube D [mm]	Thread Branching d	Dp	E	H	I	L	La	Weight [g]	Material	Type
25	RP1/2"	16	45	71,5	24,5	113	52	240	PA6	SC29-25-12-DD
32	RP1/2"	16	45	71,5	24,5	113	52	220	PA6	SC29-32-12-DD
40	RP1/2"	20	45	83	29,6	125	52	280	PA6	SC29-40-12-DD
40	RP3/4"	20	51	83	29,6	125	52	300	PA6	SC29-40-34-DD
50	RP1/2"	20	45	115,5	31	145	60	400	PA6	SC29-50-12-DD
50	RP3/4"	20	51	115,5	31	145	60	500	PA6	SC29-50-34-DD
63	RP1/2"	20	45	115,5	43	145	60	380	Aluminium	SC29-63-12-DA
63	RP3/4"	20	51	115,5	43	145	60	400	Aluminium	SC29-63-34-DA
63	RP1"	20	61	115,5	43	148	60	620	Aluminium	SC29-63-10-DA
80	RP1/2"	20	45	168	71	220	63	1191	Aluminium	SC29-80-12-DA
80	RP3/4"	20	51	168	71	220	63	1153	Aluminium	SC29-80-34-DA
80	RP1"	20	61	168	71	220	63	1160	Aluminium	SC29-80-10-DA
110	RP3/4"	20	51	168	71	220	63	900	Aluminium	SC29-110-34-DA
110	RP1"	20	61	168	71	220	63	900	Aluminium	SC29-110-10-DA

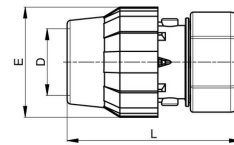


Threaded connector, Thread tapered



Thread d	Tube outside diameter D [mm]	L	L1	Weight [g]	Material	Type
R3/8"	16	76,5	10	25	Aluminium	SC38C-16-38-A
R1/2"	20	95	13	36	Aluminium	SC38C-20-12-A
R3/4"	20	96	13	52	Aluminium	SC38C-20-34-A
R1"	25	108	16	86	Aluminium	SC38C-25-10-A
R1 1/4"	32	125	18	170	Aluminium	SC38C-32-114-A
R1 1/2"	40	136	21	224	Aluminium	SC38C-40-112-A
R2"	50	148	23	400	Aluminium	SC38C-50-20-A
R2"	63	158	26	481	Aluminium	SC38C-63-20-A
R3"	80	171	33	695	Aluminium	SC38C-80-30-A

Sealing cap



Tube outside diameter D [mm]	E	L	Insertion depth [mm]	Weight [g]	Material	Type
16	37	50	38	30	PA6	SC40-16-DD
20	45	54	48	58	PA6	SC40-20-DD
25	51	60	52	75	PA6	SC40-25-DD
32	61	71	62	126	PA6	SC40-32-DD
40	75	78	70	200	PA6	SC40-40-DD
50	87	85	79	298	PA6	SC40-50-DD
63	108	90	80,5	350	PA6	SC40-63-DD

Tube outside diameter D [mm]	E	L	Insertion depth [mm]	Weight [g]	Material	Type
20	38	38	37	122	Aluminium	SC40-20-AA
25	45	45	45	142	Aluminium	SC40-25-AA
32	56	56	56	320	Aluminium	SC40-32-AA
40	62	94	77	425	Aluminium	SC40-40-AA
50	81	106	75	977	Aluminium	SC40-50-AA
63	97	139	95	1168	Aluminium	SC40-63-AA
80	116	163	114	1609	Aluminium	SC40-80-AA



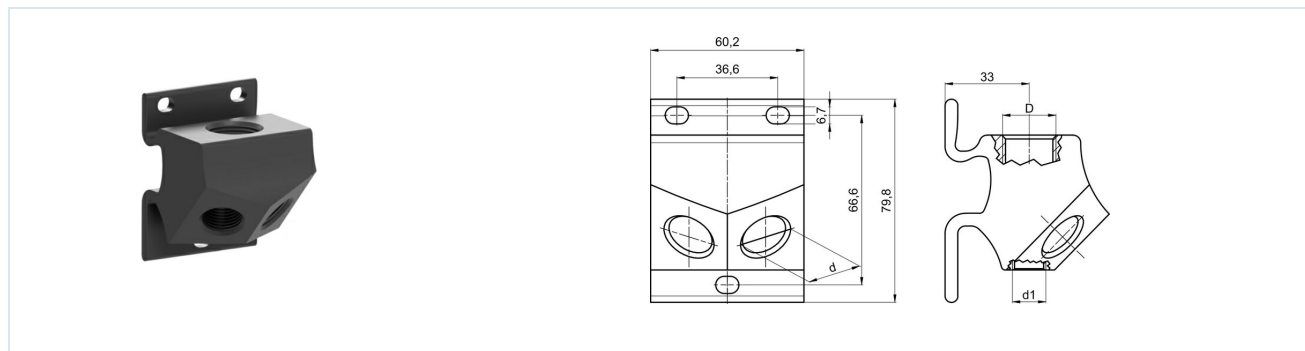
Elbow connector 45°



Tube outside diameter D [mm]	E	H	L	Insertion depth [mm]	Weight [g]	Material	Type
20	45	72	104	48	100	PA6	SC80-20-DD
25	51	81	115	52	145	PA6	SC80-25-DD
32	61	97	137	62	235	PA6	SC80-32-DD
40	75	115	160	70	375	PA6	SC80-40-DD
50	87	134	185	79	540	PA6	SC80-50-DD
63	108	140	210	80,5	770	PA6	SC80-63-DD

Tube outside diameter D [mm]	E	H	L	Insertion depth [mm]	Weight [g]	Material	Type
20	38	72	82	37	73	Aluminium	SC80-20-AA
25	45		101	45	123	Aluminium	SC80-25-AA
32	56		130	56	252	Aluminium	SC80-32-AA
40	62		160	77	303	Aluminium	SC80-40-AA

T-connector 45°, with wall mounting bracket, Female thread



Thread d	Thread d1	Thread D	Weight [g]	Material	Type
RP1/2"	RP1/4"	RP1/2"	330	Aluminium	SC81-12-A
RP1/2"	RP1/4"	RP3/4"	350	Aluminium	SC81-34-12-A

d1...This thread is normally closed. After drilling out, a condensate drain can be screwed in here.

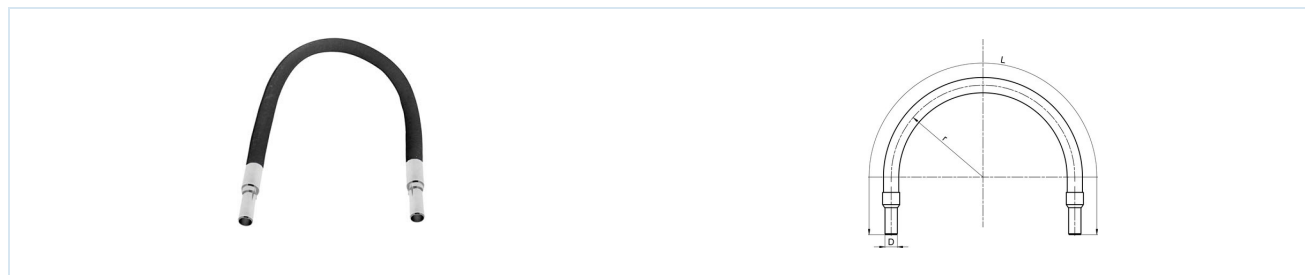


Aluminium tube, S-shaped bent, Length 0,5m, for distance compensation



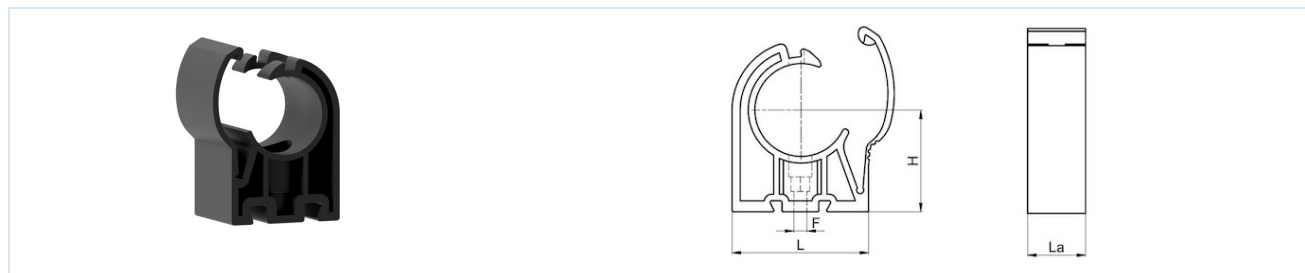
Tube outside diameter D [mm]	Weight [g]	Material	Type
16	70	Aluminium	AL-16/14-BU-0000,5-R-01
20	100	Aluminium	AL-20/17,4-BU-0000,5-R-01
25	130	Aluminium	AL-25/22,2-BU-0000,5-R-01

Flexible hose, Pipe nipple



Tube outside diameter D [mm]	L	r	Weight [g]	Material	Type
20	800	120	810	Aluminium	H0-20
25	820	150	925	Aluminium	H0-25
32	960	190	1200	Aluminium	H0-32
40	1200	230	1580	Aluminium	H0-40
50	1430	300	3400	Aluminium	H0-50
63	1650	390	4800	Aluminium	H0-63

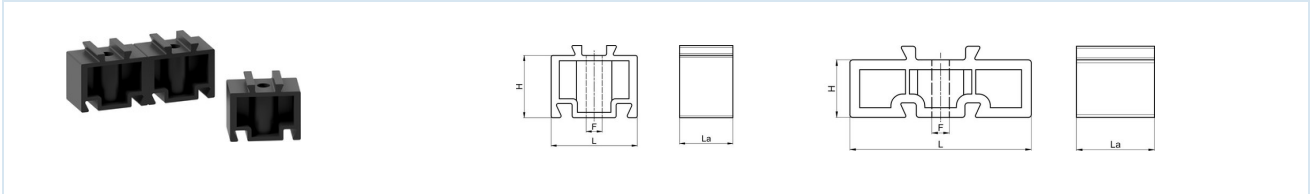
Tube clamp, Polypropylene, Threaded bushing M8



Tube outside diameter D [mm]	F	H	L	La	Weight [g]	Type
16	9	35	31	30	9	PB-16-E
20	9	35	31	30	20	PB-20-E
25	9	35	38	30	30	PB-25-E
32	9	35	49	30	70	PB-32-E
40	9	70	60	40	80	PB-40-E
50	9	70	75	40	85	PB-50-E
63	9	70	94	40	110	PB-63-E
80	9	100	120	49	250	PB-80-E
110	9	100	163	49	330	PB-110-E



Distance for pipe clamp holder, Polypropylene



Tube outside diameter D [mm]	F	H	L	La	Weight [g]	Type
16...32	9	35	49	30	19	SP-16-32-E
40...63	9	30	94	40	55	SP-40-63-E

Illustrations non-binding
Design, dimensional and material changes reserved

Pneumatics / Fittings and couplings / Compressed air system SPEEDLINE / Compressed air system SPEEDLINE Aluminum Ø20...110mm

