

simplyAIR

pipng-systems



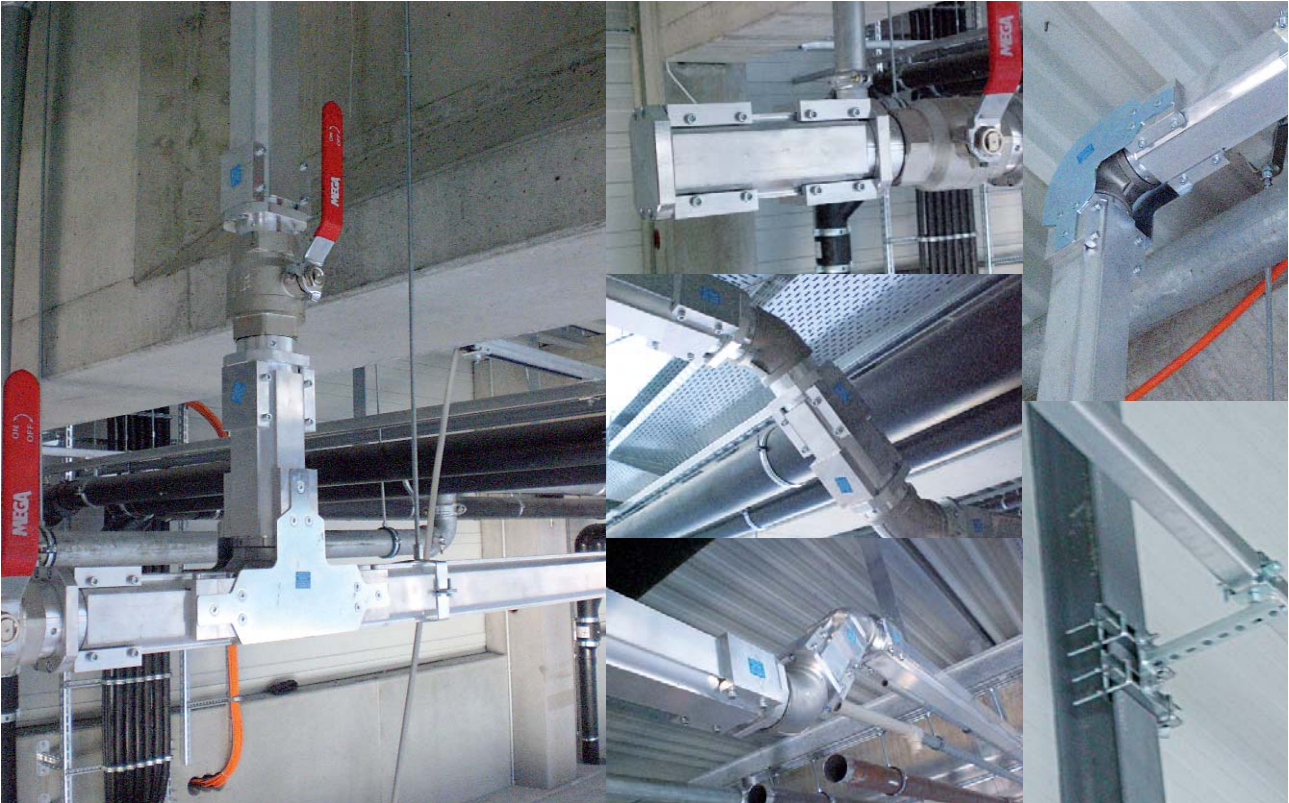
AIR **CONCEPT**[®]

Druckluft-Systeme

www.airconcept.eu

Aluminium Compressed Air Pipe System

simplyAIR



The ingenious constructional principle of **simplyAIR** makes mounting very simple. That is because the name of the product line is more than just a slogan: The new **simplyAIR** Compressed Air Pipe System is very simple and easy to mount. Made possible by the newly-developed technology that is far superior to other fastening systems. You will save a lot of time and money.

Compressed air can be drawn off anywhere you want. This permits modifications to be made quickly and without any problem. They can be done without having to shut down the system or interrupting operation. Thus, a decision in favour of **simplyAIR** is a decision with a future.

The heart of this innovative pipe system is a light rectangular pipe made from extruded aluminium. It is corrosion-resistant and especially aerodynamic. Aluminium combines all advantages of conventional materials like steel, plastics or copper, yet avoids their drawbacks such as rough surface structure, sagging pipes and corrosion etc.

simplyAIR - An innovative solution by AIR CONCEPT

simplyAIR - A solution of striking simplicity

Assembly and Installation Guide

Tools required:

Hex keys 3, 4, 5 mm (depending on profile)

Deburring knife

Countersink cutter

Saw (handsaw or electric mitre saw)

Grease (Klüber Microlube GL 261 recommended)

Power drill or cordless screwdriver

Drilling tool (if drilling under pressure in operating conditions)

Installation instructions - assembly *simplyAIR*

Recommended spacing of fastening brackets:

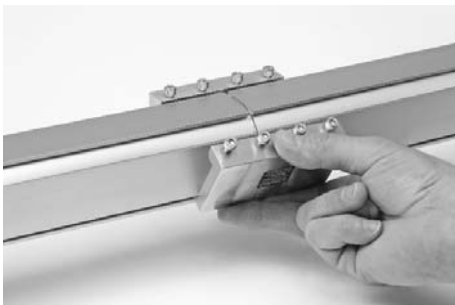
simplyAIR profiles 2,5 to 3,0 m

Caution: For outdoor installation 90° elbows should be used, item number ...27!

Fitting straight plates oder angled plates:



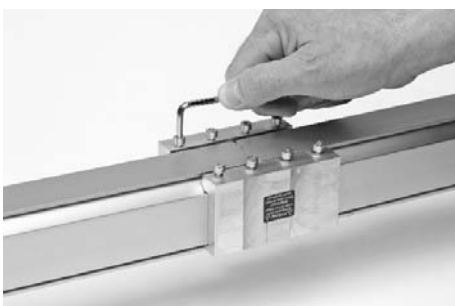
Push connector into the profile.



Put straight or angled plates in place.
Center the plates.



Plates must lie flat on
the profile!



Fully tighten using hex key or ratchet -
and that's it!

Fitting the outlet plates:



Drill hole using conical drill or drilling tool.



Put outlet plate in position, check that the strips are fully engaged in the profile.



Tighten using hex key or ratchet - and that's it!

Using drilling tool:

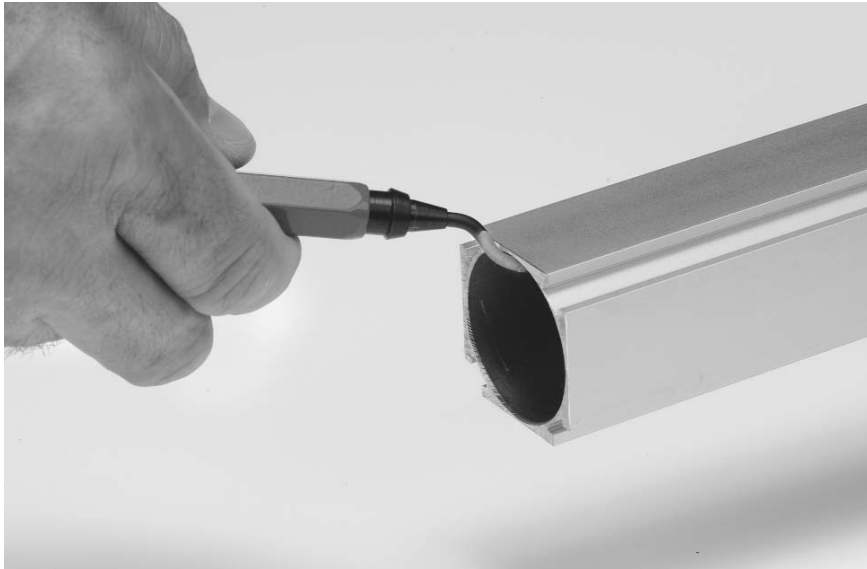


Fit ball valve to outlet plate and place in position, tighten bolts on the strips.

Open ball valve - drill hole - withdraw drill - close ball valve - that's it!

!
caution

After profil has been sawn it must be deburred to prevent damage to O-rings.



!
caution

Initial operation:

Slowly open the ball valve and fill the piping to a pressure of approx. 2 bar, then close the ball valve.

Now check the entire piping system for leaks or incorrectly fitted connectors.

Completely release the pressure in the pipe system. Now slowly increase the pressure in the pipe system up to the maximum operating pressure. Check the entire system again.

!
caution

While commissioning and checking the entire system all other persons must keep clear of the immediate vicinity of the pipe system.

Conduct acceptance and inspection wearing protective glasses and hard hat.

!
caution

Dismantling:

Before removing individual connectors ensure that the entire pipe system is depressurized.

Fitting ALS aluminium round pipe system

Recommended spacing of fastening brackets:

ALS round pipes 2.0 to 2.5 m

Cut pipe

The cut must be straight.
Use a pipe cutter.



Chamfer the pipe

Chamfering the outside of the pipe makes the pipe easier to insert.



Insert pipe

To insert the pipe rotate it slightly and push all the way into the connector.



!
caution

Push pipe all the way in,
mark insertion depth if necessary!

Dismantling

The ALS system can be dismantled very easily without damaging the pipe using suitable tools.



!
caution

Before removing individual
connectors ensure that
the entire pipe system is depressurized!

Technical datas aluminium piping system


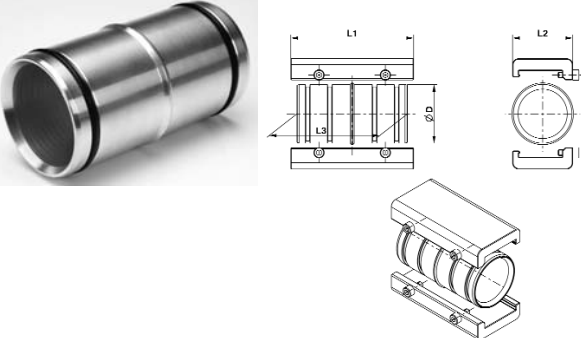
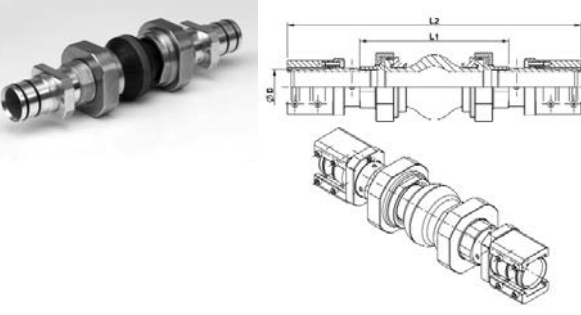
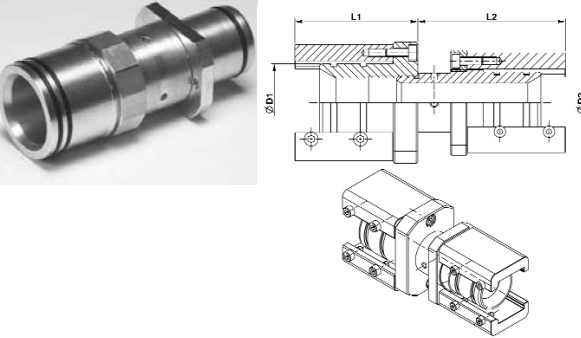
Application area: compressed air, vacuum, argon, nitrogen, carbon dioxide, mineral oil, synthetic oil.

Technical characteristics		Profile 40, 50, 60, 80
extruded aluminium		ENAW 6060
chemical composition		SI 0,3-0,6% Mg 0,35-0,6% Zc 0,1-0,3%
foreign designations		DIN: ALMgSi 0,5/F22/ENAW
heat treatment		blooming T66
surface treatment (upon request)		chemical oxidation, colour nature
specific weight, density	Kg/dm ³	270
electric conductivity	% IACS	53
thermic conductivity	W/m, K	200
specific heat	J/Kg.K	96
coefficient of expansion	mm/m.°C	0,024
Brinell hardness	HB	70,4
tensile strength	N/mm ²	215
yield strength	N/mm ²	160
modul of elastic	K/mm ²	6700
strength A 50%	%	6
screw material		steel 8.8/10.8
melting range	°C	600-650
operating temperature min/max	°C	-40 / +120
test pressure	kg/cm ²	24
operating pressure max		10 mbar - 15 bar
O-ring material	Standard	NBR 70
O-ring operating temperature min/max	°C	-20 / +100

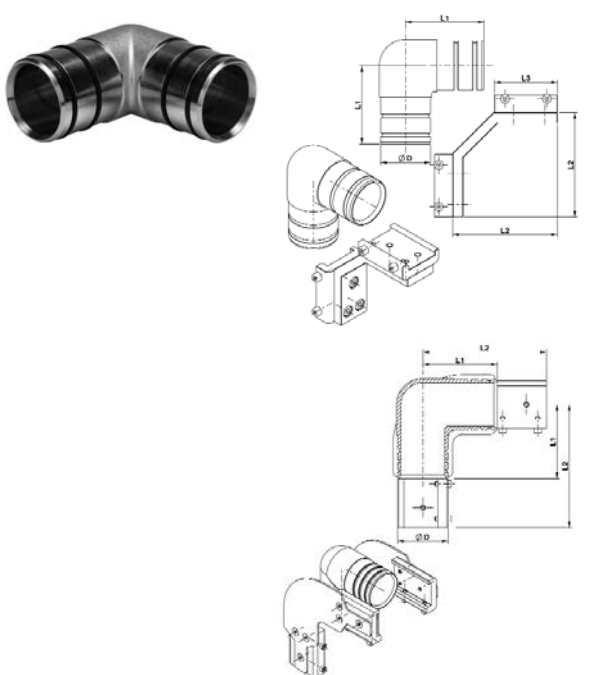
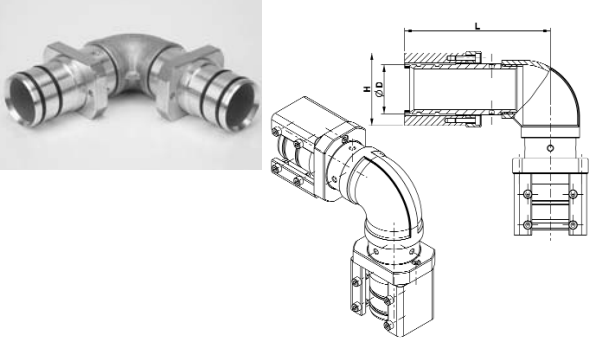
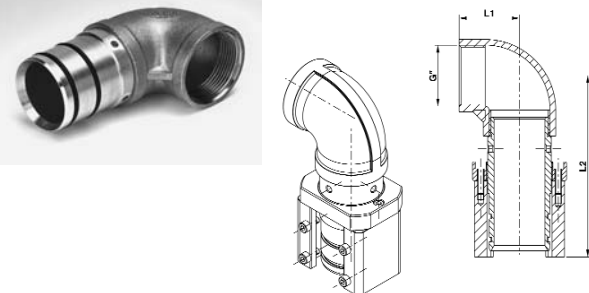
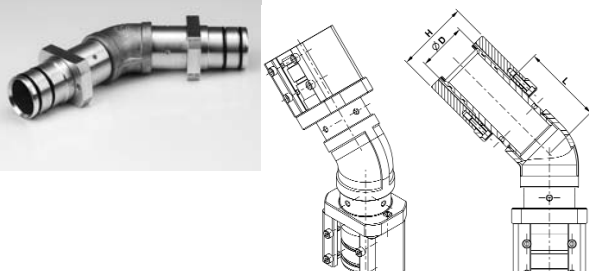
Chose the diameter for the installation

DPressure 7 bar - pressure different 0,1 bar. The diagram below allows to determinate the diameter of the main line. By ring line halve the flow rate and the distance.

Flow rate distance between compressor and the longest delocalization.		simplyAIR Abmessungen													
l/min	cfm	25	40	60	80	100	150	200	250	300	400	500	600	800	1000
400	14,16	15	15	18	18	20	20	22	22	22	25	25	25	28	28
500	17,70	15	18	18	20	20	22	22	25	25	28	28	28	40	40
750	26,55	18	20	20	22	22	25	28	28	28	40	40	40	40	40
1200	42,48	22	22	25	28	28	40	40	40	40	40	40	40	40	50
1500	53,10	22	25	28	40	40	40	40	40	40	40	40	40	50	50
2000	70,80	25	28	40	40	40	40	40	40	40	50	50	50	50	50
3000	106,20	40	40	40	40	40	40	50	50	50	50	50	60	60	60
4800	169,92	40	40	40	50	50	50	50	60	60	60	80	80	80	80
7200	254,88	40	50	50	50	60	60	60	80	80	80	80	80	80	80
10800	382,32	50	60	60	60	80	80	80	80	80	80	80			
15000	531,00	80	80	80	80	80	80	80	80	80					
20000	708,00	80	80	80	80	80	80								


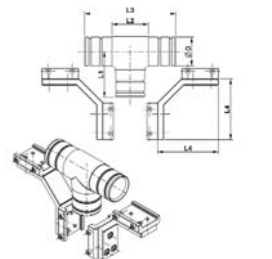

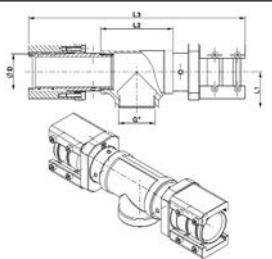

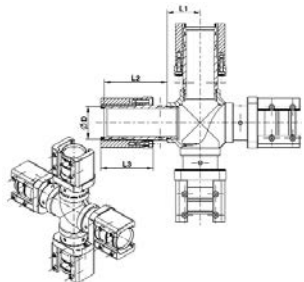

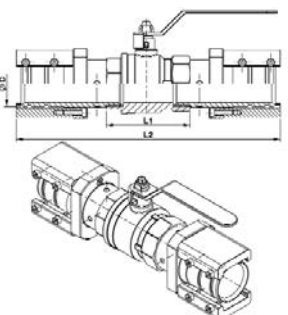
Profiled aluminium pipe, coated or natural		Article Nr.	ND/mm	L/m	W/kg		
	natural	NSA 40	38	6	1,0		
	natural	NSA 50	48	6	1,4		
	natural	NSA 60	58	6	1,9		
	natural	NSA 80	78	6	2,6		
	anodized	ESA 40	38	6	1,0		
	anodized	ESA 50	48	6	1,4		
	anodized	ESA 60	58	6	1,9		
	anodized	ESA 80	78	6	2,6		
Straight joint, complete		Article Nr.	Profile	D/mm	L1	L2	L3
		4040 020	40	38	100	43	70
		5050 020	50	48	100	49	90
		6060 020	60	58	100	55	100
		8080 020	80	78	100	64	130
Expansion joint, complete		Article Nr.	Profile	D/mm	L1	L2	
		4040 021	40	38	190	340	
		5050 021	50	48	200	390	
		6060 021	60	58	220	430	
		8080 021	80	78	220	430	
Reduction joint, complete		Article Nr.	Profile	D1/mm	D2	L1	L3
		5050 040	50 - 40	48	38	75	90
		6060 040	60 - 40	58	38	75	90
		8080 040	80 - 40	78	38	95	90
		6060 050	60 - 50	58	48	75	95
		8080 050	80 - 50	78	48	95	95
		8080 060	80 - 60	78	58	95	115



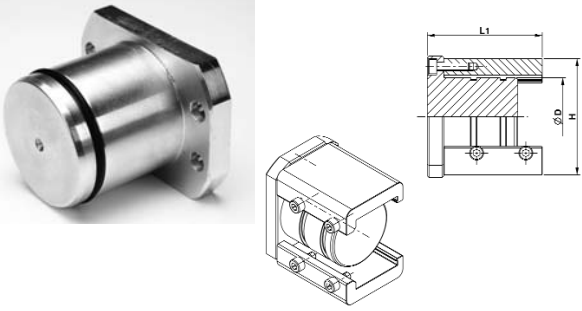
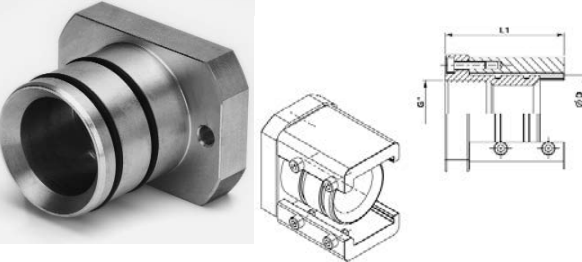
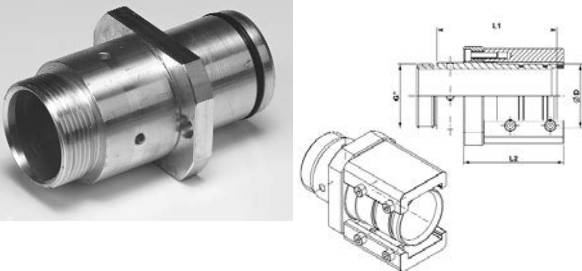
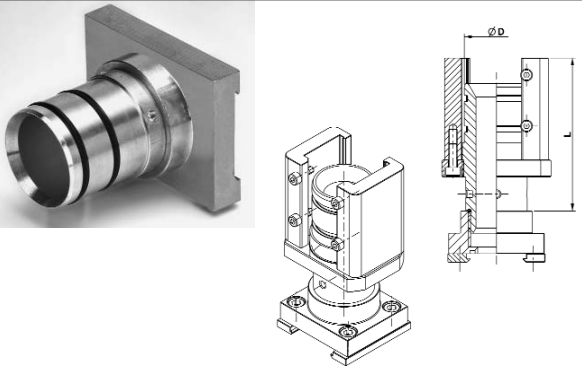
L-joint, 90° complete		Article Nr.	Profile	D/mm	L1	L2	L3
		4040 022	40	38	65	100	60
		5050 022	50	48	75	100	60
		6060 022	60	58	85	141	
		8080 022	80	78	105	159	
L-joint, 90° complete		Article Nr.	Profile	D/mm	L	H	
		4040 027	40	38	132,5	61	
		5050 027	50	48	142,5	71	
		6060 027	60	58	175,5	81	
		8080 027	80	78	203,5	102	
L-joint, 90° one sided open		Article Nr.	Profile	D/mm	thread G"	L1	L2
		4040 055	40	38	1 1/4	42,5	132,5
		5050 055	50	48	1 1/2	47,5	142,5
		6060 055	60	58	2	56,5	175,5
		8080 055	80	78	2 1/2	68,5	203,5
L-joint, 45° complete		Article Nr.	Profile	D/mm	L	H	
		4040 023	40	38	71	61	
		5050 023	50	48	78	71	
		6060 023	60	58	116	81	
		8080 023	80	78	119	102	



All parts completed for installation on site.

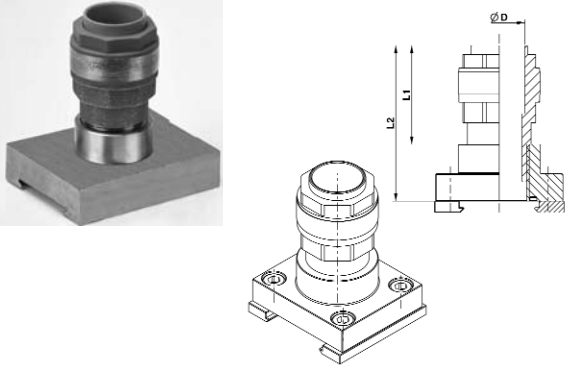
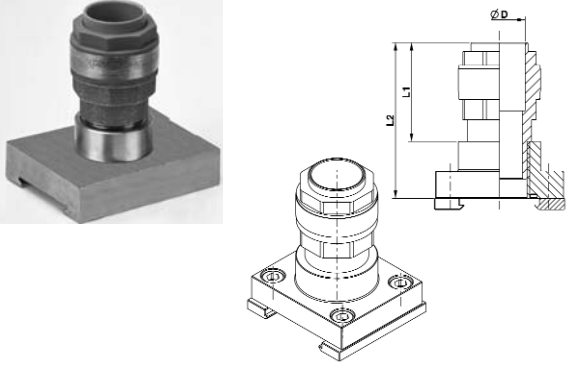
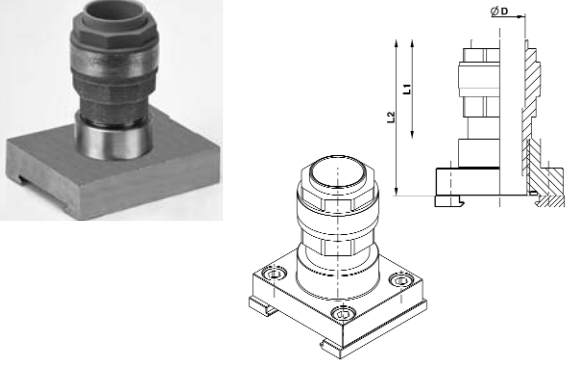
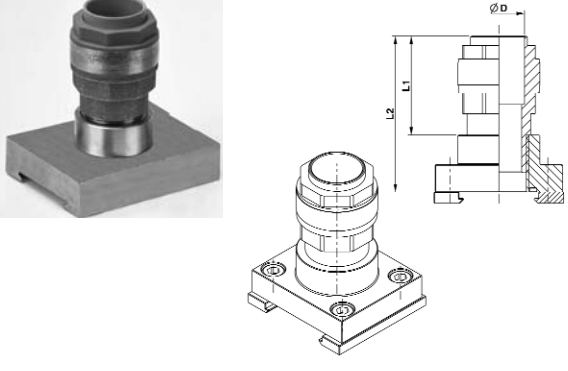
T-joint, complete		Article Nr.	Profile	D/mm	L1	L2	L3	L4
 	4040 024	40	38	65	50	130	100	
	5050 024	50	48	75	60	150	100	
	6060 024	60	58	85	141	170	282	
	8080 024	80	78	105	159	210	318	
T-joint, one side open		Article Nr.	Profile	D/mm	L1	G"/"	L2	L3
 	4040 060	40	38	42,5	1 1/4	85	265	middle
	5050 060	50	48	47,5	1 1/2	95	285	middle
	6060 060	60	58	56,5	2	113	343	middle
	8080 062	80	78	68,5	2 1/2	137	407	middle
	4040 061	40	38	42,5	1 1/4	132,5		sideways
	5050 061	50	48	47,5	1 1/2	142,5		sideways
	6060 061	60	58	56,5	2	175,5		sideways
	8080 061	80	78	68,5	2 1/2	203,5		sideways
	Cross complete		Article Nr.	Profile	D/mm	L1	L2	L3
	 	4040 025	40	38	42,5	75	70	
5050 025		50	48	47,5	90	75		
6060 025		60	58	56,5	85	75		
8080 025		80	78	68,5	105	95		
KBall valve, complete		Article Nr.	Profile	D/mm	L1	L2		
 	4040 046	40	38	65	215			
	5050 046	50	48	88	278			
	6060 046	60	58	100	310			
	8080 046	80	78	140	350			




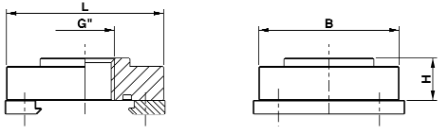
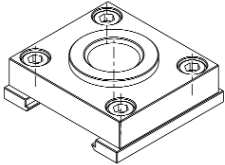
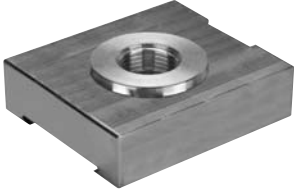
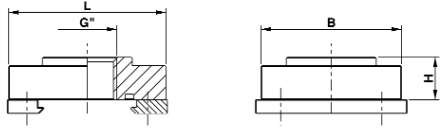
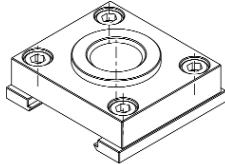
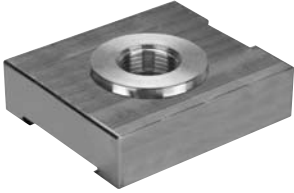
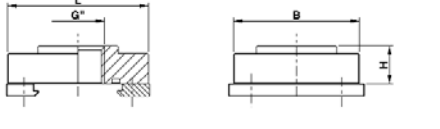
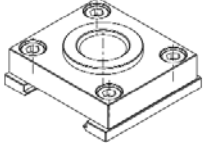
Closed terminal, complete		Article Nr.	Profile	d/mm	L	H	
	4040 026	40	38	70	61		
	5050 026	50	48	70	71		
	6060 026	60	58	75	81		
	8080 026	80	78	95	102		
Terminal with BSP female, complete		Article Nr.	Profile	d/mm	G/"	L1	L2
	4040 029	40	38	1/2	70	61	
	4040 030	40	38	1	70	61	
	5050 029	50	48	1/2	75	71	
	5050 030	50	48	1 1/4	75	71	
	5050 031	50	48	1	75	71	
	6060 029	60	58	1/2	75	81	
	6060 030	60	58	1 1/2	75	81	
	6060 031	60	58	1	75	81	
	8080 029	80	78	1/2	95	102	
	8080 030	80	78	2	95	102	
	8080 031	80	78	1	95	102	
	8080 032	80	78	1 1/2	95	102	
Terminal with BSP male, complete		Article Nr.	Profile	d/mm	G/"	L1	L2
	4040 035	40	38	1	85	75	
	4040 036	40	38	1 1/4	85	75	
	5050 035	50	48	1 1/2	90	75	
	5050 036	50	48	2	90	75	
	6060 035	60	58	2	85	75	
	8080 035	80	78	2 1/2	105	95	
Reduction plate, complete 80-60-50		Article Nr.	Profile	Profile	L		
	5050 437	50	40	90			
	6060 437	60	40	90			
	8080 437	80	40	90			
	8080 537	80	50	95			



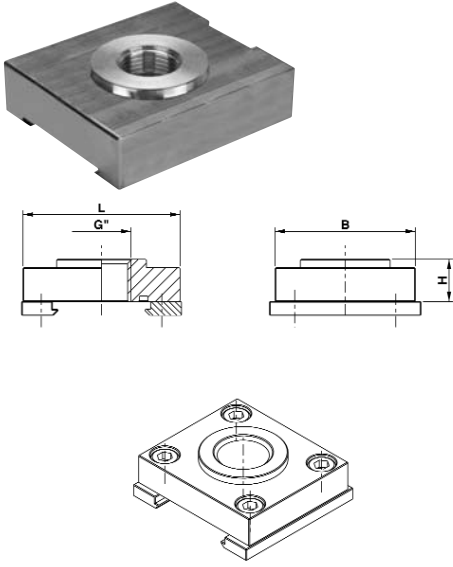
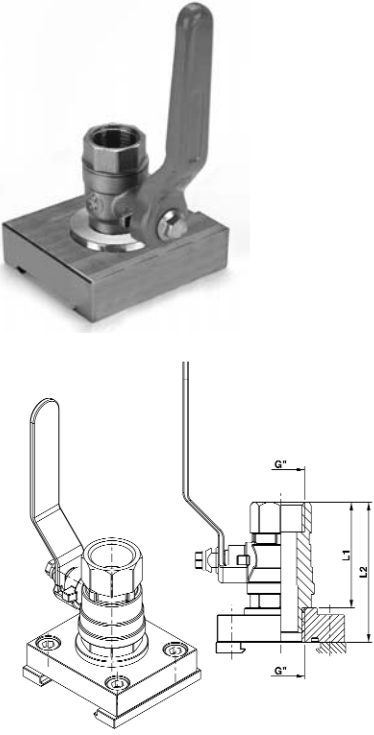
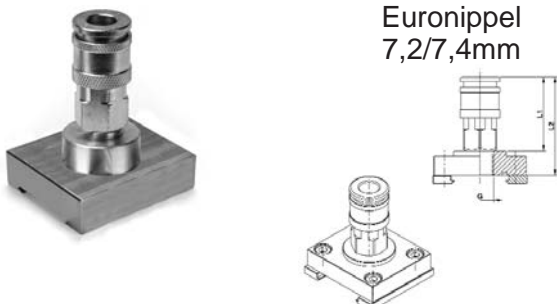
All parts completed for installation on site.

Reduction plate 40 for ALS, complete		Article Nr.	Profile	Pipe ALS	L1	L2
	4040 115	40	15	30	45	
	4040 118	40	18	45	60	
	4040 120	40	20	45	60	
	4040 122	40	22	45	70	
	4040 125	40	25	45	70	
	4040 128	40	28	55	80	
	Reduction plate 50 for ALS, complete		Article Nr.	Profile	Pipe ALS	L1
	5050 115	50	15	30	45	
	5050 118	50	18	45	60	
	5050 120	50	20	45	60	
	5050 122	50	22	45	70	
	5050 125	50	25	45	70	
	5050 128	50	28	55	80	
	Reduction plate 60 for ALS, complete		Article Nr.	Profile	Pipe ALS	L1
	6060 115	60	15	30	45	
	6060 118	60	18	45	60	
	6060 120	60	20	45	60	
	6060 122	60	22	45	70	
	6060 125	60	25	45	70	
	6060 128	60	28	55	80	
	Reduction plate 80 for ALS, complete		Article Nr.	Profile	Pipe ALS	L1
	8080 115	80	15	30	45	
	8080 118	80	18	45	60	
	8080 120	80	20	45	60	
	8080 122	80	22	45	70	
	8080 125	80	25	45	70	
	8080 128	80	28	55	80	






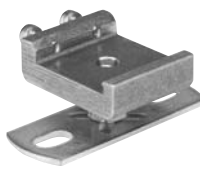



Outlet plate 40	Article Nr.	Profile	G/''	L/mm	B/mm	H/mm
  	4040 041	40	3/8	50	50	15
	4040 042	40	1/2	50	50	15
	4040 043	40	3/4	50	50	25
	4040 044	40	1	50	50	25
Outlet plate 50	Article Nr.	Profile	G/''	L/mm	B/mm	H/mm
  	5050 041	50	3/8	56	50	15
	5050 042	50	1/2	56	50	15
	5050 043	50	3/4	56	50	25
	5050 044	50	1	56	50	25
Outlet plate 60	Article Nr.	Profile	G/''	L/mm	B/mm	H/mm
  	6060 041	60	3/8	60	50	15
	6060 042	60	1/2	60	50	15
	6060 043	60	3/4	60	50	25
	6060 044	60	1	60	50	25


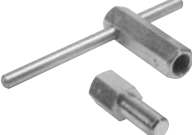
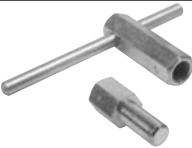

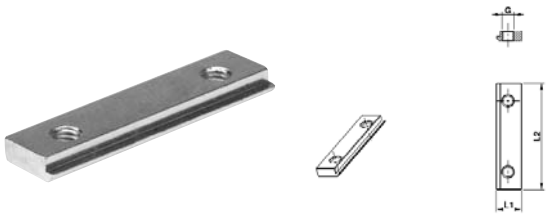


All parts completed for installation on site.
 All couplings european standard. Other profil types upon request.

Outlet plate 80	Article Nr.	Profile	G/"	L/mm	B/mm	H/mm
	8080 041	80	3/8	70	50	15
	8080 042	80	1/2	70	50	15
	8080 043	80	3/4	70	50	25
	8080 044	80	1	70	50	25
	8080 045	80	1 1/2	70	50	25
Outlet plate with ball valve	Article Nr.	Profile	G/"	L1	L2	
	4040 064	40	1/2	46	61	
	5050 064	50	1/2	46	61	
	6060 064	60	1/2	46	61	
	8080 064	80	1/2	46	61	
Outlet plate with steel coupling	Article Nr.	Profile	L1	L2		
 <p>Euronippel 7,2/7,4mm</p>	4040 341	40	47	62		
	5050 341	50	47	62		
	6060 341	60	47	62		
	8080 341	80	47	62		

All parts completed for installation on site.
All couplings european standard. Other profil types upon request.

Outlet plate with safety coupling (onehand)		Article Nr.	Profile	L1	L2		
 <div style="position: absolute; top: 10px; right: 10px; background-color: blue; color: white; padding: 5px; transform: rotate(-15deg); font-weight: bold;">NEW</div>	Euro-nippel 7,2/7,4mm	4040 441	40	44	59		
		5050 441	50	44	59		
		6060 441	60	44	59		
		8080 441	80	44	59		
Outlet plate with safety coupling		Article Nr.	Profile	L1	L2		
 <div style="position: absolute; top: 10px; right: 10px;">Euro-nippel 7,2/7,4mm</div>	4040 141	40	50	65			
	5050 141	50	50	65			
	6060 141	60	50	65			
	8080 141	80	50	65			
Wall and ceiling fixation		Article Nr.	Profile	G"	L1	L2	
	4040 093	40	M 8 - M 10	46	41		
	5050 093	50	M 8 - M 10	56	51		
	6060 093	60	M 8 - M 10	66	61		
	8080 093	80	M 8 - M 10	86	81		
Ceiling fixation		Article Nr.	Profile	∅ hole/mm	L1	L2	
	4040 095	40	10	35	55		
	5050 095	50	10	40	55		
	6060 095	60	10	44	55		
	8080 095	80	10	54	55		
Universal fixation, complete		Article Nr.	Profile	G"	H/mm	L	B
	4040 090	40	M 8	16	40	43	
	5050 090	50	M 8	17	40	49	
	6060 090	60	M 8	19	60	55	
	8080 090	80	M 8	20	60	64	
Universal fixation, complete with groundplate		Article Nr.	Profile	B1	B2	L1	L2
	4040 091	40	43	30	40	80	
	5050 091	50	49	40	40	120	
	6060 091	60	55	40	60	120	
	8080 091	80	64	40	60	120	
Groundplate		Article Nr.	L1	L2	L3	B	
	95 080	54	80	9x16	30		
	95 120	80	120	11x19	40		

All parts completed for installation on site.
All couplings european standard. Other profil types upon request.

M8 threaded stud	Article Nr.	Male screw	A/mm	
	90 095	M8	50	
	90 094	M8	60	
	90 093	M8	80	
	90 092	M8	100	
	90 091	M10	100	
Manual fixing tool	Article Nr.	Thread		
	90 090	M8		
	90 081	M10		
Screw in chucks for power drivers	Article Nr.	Thread		
	90 085	M8		
	90 086	M10		
Metall support bracket 27x18	Article Nr.	A/mm		
	95 300	300		
	95 500	500		
Fixing for outlet plate	Article Nr.	G/”	L1	L2
	44 070	M6	13	54
Special allen srew	Article Nr.	Profile	Thread	
	41 00 61	M 6 x 16	40	
	44 080	M 4 x 12	40	
	55 080	M 5 x 12	50	
	66 080	M 5 x 14	60	
	88 080	M 6 x 14	80	
Sealing ring	Article Nr.	Profile		
	41 00 65	40		
	51 00 65	50		
	81 00 65	80		
	61 00 65	60		

All parts completed for installation on site.

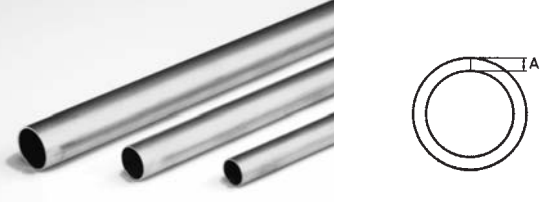




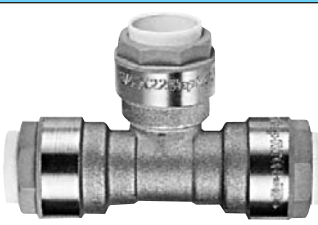
ALS Aluminium piping system for compressed air

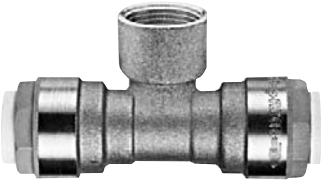






- For independent operators or smaller scale industry with air consumption up to 2,000 l/min.
- Ideal addition to the *simplyAIR* system for stub lines and branch lines.




Here too you benefit from the key advantages of our intelligent aluminium piping system:

- Extremely simple fast assembly.
- Aluminium is lightweight, corrosion-resistant and highly beneficial to the air flow.
- Air outlets are possible at any point without interrupting operation.
- Complete system in various sizes, all elements perfectly coordinated with each other.
- Fast modular installation.
- Lines can be laid by simply inserting the pipes.
- Fast assembly and dismantling without using special tools.
- Large selection of connectors and accessory parts enables optimum adaptation of piping system to existing workshop layout.



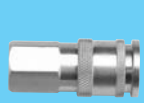






Aluminiumpipe		Article Nr.	Pipe/mm	A/mm	Length/m
	ALR R 15	15	1,0	6	
	ALR R 18	18	1,0	6	
	ALR R 20	20	1,0	6	
	ALR R 22	22	1,0	6	
	ALR R 25	25	1,0	6	
	ALR R 28	28	1,5	6	
Polyamidpipe		Article Nr.	D/mm	A/mm	Length
	Poly 2225	22	2,0	25m	
	Poly 2250	22	2,0	50m	
Straight joint		Article Nr.	D/mm		
	11 520	15			
	11 820	18			
	12 020	20			
	12 220	22			
	12 520	25			
	12 820	28			
L-Joint 90°		Article Nr.	D/mm		
	11 522	15			
	11 822	18			
	12 022	20			
	12 222	22			
	12 522	25			
	12 822	28			
L-Joint 90° male		Article Nr.	D/mm	G"	
	11 523	15	1/2		
	11 823	18	1/2		
	12 023	20	1/2		
	12 223	22	3/4		
	12 523	25	3/4		
	12 823	28	1		
T-Joint		Article Nr.	D/mm		
	11 524	15			
	11 824	18			
	12 024	20			
	12 224	22			
	12 524	25			
	12 824	28			


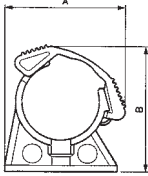

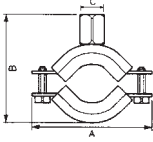
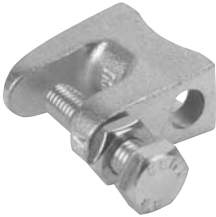

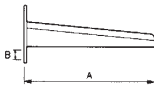

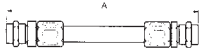


T-Joint with female		Article Nr.	D/mm	G"
	11 525	15	1/2"	
	11 825	18	1/2"	
	12 025	20	1/2"	
	12 225	22	3/4"	
	12 525	25	3/4"	
	12 825	28	1"	
Terminal with male		Article Nr.	D/mm	G"
	11 535	15	1/2"	
	11 835	18	1/2"	
	12 035	20	1/2"	
	12 235	22	3/4"	
	12 535	25	3/4"	
	12 835	28	1"	
Terminal with female		Article Nr.	D/mm	G"
	11 529	15	1/2"	
	11 829	18	1/2"	
	12 029	20	1/2"	
	12 229	22	3/4"	
	12 529	25	3/4"	
	12 829	28	1"	
Terminal closed		Article Nr.	D/mm	
	11 526	15		
	11 826	18		
	12 026	20		
	12 226	22		
	12 526	25		
	12 826	28		
Ball valve		Article Nr.	D/mm	
	11 546	15		
	11 846	18		
	12 046	20		
	12 246	22		
	12 546	25		
	12 846	28		
Disconnecting Clip		Article Nr.	D/mm	
	11 598	15		
	11 898	18		
	12 098	20		
	12 298	22		
	12 598	25		
	12 898	28		
Disconnection lever		Article Nr.	D/mm	
	11 599	15		
	11 899	18		
	12 099	20		
	12 299	22		
	12 599	25		
	12 899	28		


Wall fostener	ALS 15	ALS 18	ALS 20	ALS 22	ALS 25
Wall fostener	Article Nr.				
	15 040	18 040	20 040	22 040	25 040
Wall fostener with coupling	Article Nr.				
					
standard steel Euro Typ 530	15 041	18 041	20 041	22 041	25 041
onehand-security coupling Typ ACE (Euro)	15 045	18 045	20 045	22 045	25 045
Typ ACS (ARO)	15 050	18 050	20 050	22 050	25 050
security coupling/sliding sleeve Typ 570 (Euro)	15 042	18 042	20 042	22 042	25 042
Typ 572 (ARO)	15 051	18 051	20 051	22 051	25 051
Wall fostener with Regulator	Article Nr.				
					
standard steel Euro Typ 530	15 060	18 060	20 060	22 060	25 060
onehand-security coupling Typ ACE (Euro)	15 061	18 061	20 061	22 061	25 061
Typ ACS (ARO)	15 062	18 062	20 062	22 062	25 062
security coupling/sliding sleeve Typ 570 (Euro)	15 063	18 063	20 063	22 063	25 063
Typ 572 (ARO)	15 064	18 064	20 064	22 064	25 064

All parts completed for installation on site.

Wall fostener with FRL		Article Nr.				
						
standard steel Euro Typ 530		15 070	18 070	20 070	22 070	25 070
onehand-security coupling Typ ACE (Euro)		15 071	18 071	20 071	22 071	25 071
Typ ACS (ARO)		15 072	18 072	20 072	22 072	25 072
security coupling/sliding sleeve Typ 570 (Euro)		15 073	18 073	20 073	22 073	25 073
Typ 572 (ARO)		15 074	18 074	20 074	22 074	25 074
Wall fostener with regulator		Article Nr.				
						
standard steel Euro Typ 530		15 080	18 080	20 080	22 080	25 080
onehand-security coupling Typ ACE (Euro)		15 081	18 081	20 081	22 081	25 081
Typ ACS (ARO)		15 082	18 082	20 082	22 082	25 082
security coupling/sliding sleeve Typ 570 (Euro)		15 083	18 083	20 083	22 083	25 083
Typ 572 (ARO)		15 084	18 084	20 084	22 084	25 084
Flow rate at 6 bar - 10% ΔP		530	ACE	ACS	570	572
						
max. Working Pressure		15	15	15	15	015
Profile		Euro 7,2- 7,4mm	Euro 7,2- 7,4mm	ARO 6mm	Euro 7,2- 7,4mm	ARO 6mm
Safety		No	Yes	Yes	Yes	Yes
One hand		Yes	Yes	Yes	No	No
Flow Rate		1250	1250	650	1450	750

All parts completed for installation on site.

Sliding clamp		Article Nr.	Pipe/mm	A/mm	B/mm	
 		15 090	15	25	26	
		18 090	18	27	30	
		20 090	20-22	31	34	
		25 090	25-28	40	42	
Tapped houger		Article Nr.	Pipe/mm	A/mm	B/mm	C
 		15 093	15-18	56	44	M8 - M10
		20 093	20-22	60	48	M8 - M10
		25 093	25-28	65	53	M8 - M10
Girden clamps		Article Nr.	Klemmstärke mm			
		90 070	0-20			
Metall support bracket 27x18		Article Nr.	A/mm			
 		95 300 95 500	300 500			
Hoses with male adaptors		Article Nr.	G/"	A/mm		
 		FLEX 21	1/2	1500		
		FLEX 27	3/4	1500		
		FLEX 34	1	1500		
		FLEX 42	1 1/4	1500		
		FLEX 60	2	1500		
Drilling tool		Article Nr	L/mm	B/mm	Weight/g	
 		910 036 060	320	12	750	
					<ul style="list-style-type: none"> • Drilling under pressure possible • Quick and safe attachment of connections • Anti noise protection 	

Special allen spanner M6		Article Nr.	
	901 130 005		
De-burring tool		Article Nr.	
	909 012 130 909 003 047	Reperation-blade	
Drilling tool		Article Nr.	
	922 020 062	8 to 20 mm	
Tools		Article Nr.	
	909 012 135 909 012 154 909 012 132 909 012 133	Burner Burner Alupipe cutter Alupipe cutter	D/mm 3 - 35 10 - 54 3 - 28 3 - 35
Circular saw		Article Nr.	
	909 012 136 909 012 137 909 012 138 909 012 139	<ul style="list-style-type: none"> ■ 95x180 mm ■ 120x120 mm ● ø 130 mm <p>sawblade alu ø 355 mm* sawblade steel ø 355 mm* sawblade stainless steel ø 355 mm* * sawblade must be ordered separate</p>	Cut 90°
Sealing compound		Article Nr.	
	935 020 001 935 020 002 936 020 001 936 020 002	50 ml 250 ml 250 ml 250 ml	medium strength gap filling 0,6 mm 0,6 mm cleaner cleaner spray
Grease		Article Nr.	
	95 051 95 050	1 kg box 40 gr tube	



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