Transair®: The Original Aluminium Pipework System for Industrial Fluids

Pocket Installation Guide

Aluminium Range Ø16.5 - 25 - 40 - 50 - 63 - 76 - 100 - 168 mm

In compliance with DESP/2014/68/EU

Parker

ENGINEERING YOUR SUCCESS.

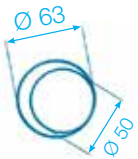
SUMMARY

This installation guide is intended to be used by any technician who should install a Transair® aluminium range network. It is a synthesis of all Transair® assembly instructions and explains how to install, to modify the pipework, to add new drops and final commissioning of the network.
It also lists all the products that a user may need to realise the work from the compressor to the point of use.

For any further information don't hesitate to contact our services.

CONTENT

NB: for products not mentioned in this pocket guide, please refer to corresponding assembly guide sent with products.



TECHNICAL SPECIFICATIONS

Suitable Fluids
• Compressed air (dry, wet, lubricated) • Vacuum • Inert gases

Max. Working Pressure
16 bar (from -20°C to +45°C) up to 100mm 13 bar (from -20°C to +60°C) for all diameters 7 bar (from -20°C to +85°C) for all diameters

Resistance to
• Corrosion • Mineral & synthetic compressor oils • Aggressive compressor condensate (oil-free) • Aggressive environments • Mechanical shocks • Thermal variations • Ultraviolet (UV)

Temperature Range
Working: from -20°C to +85°C Storage: from -40°C to +85°C

Vacuum Level
99,9 % (1 mbar absolute pressure)

CERTIFICATIONS AND GUARANTEES

All Transair® brochures can be downloaded on:

www.parkertransair.com/downloading

SIZING

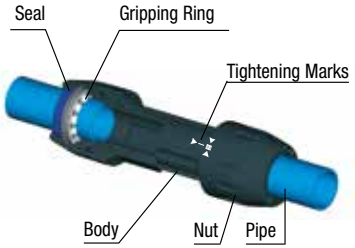
Select the Transair® diameter for your application based on required flow against pressure drop. Estimated values for: a closed loop network, a pressure of 8 bar with 3% pressure drop. Velocity is not taken into account.

Download now the
Transair® Sizing Tool!

FLOW			LENGTH										Compressor (kw)
			164ft	328ft	492ft	984ft	1640ft	2460ft	3280ft	4265ft	5249ft	6561ft	
Nm³/h	Nl/min	Scfm	50m	100m	150m	300m	500m	750m	1000m	1300m	1600m	2000m	
10	167	6	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	25	25	1
30	500	18	16.5	16.5	16.5	25	25	25	25	25	25	25	3
50	833	29	16.5	25	25	25	25	25	25	40	40	40	5,5
70	1 167	41	25	25	25	25	25	40	40	40	40	40	7,5
100	1 667	59	25	25	25	40	40	40	40	40	40	40	11
150	2 500	88	25	25	40	40	40	40	40	40	40	50	15
250	4 167	147	25	40	40	40	40	40	50	50	50	50	25
350	5 833	206	40	40	40	40	50	50	50	63	63	63	30
500	8 333	294	40	40	40	50	50	63	63	63	63	76	45
750	12 500	441	40	50	50	63	63	63	76	76	76	76	75
1000	16 667	589	50	50	50	63	76	76	76	76	100	100	90
1250	20 833	736	50	50	63	63	76	76	100	100	100	100	110
1500	25 000	883	50	63	63	76	76	100	100	100	100	100	132
1750	29 167	1 030	50	63	63	76	100	100	100	100	100	100	160
2000	33 333	1 177	63	63	76	76	100	100	100	100	168	168	200
2500	41 667	1 471	63	76	76	100	100	100	100	168	168	168	250
3000	50 000	1 766	63	76	76	100	100	168	168	168	168	168	315
3500	58 333	2 060	76	76	100	100	100	168	168	168	168	168	355
4000	66 667	2 354	76	100	100	100	168	168	168	168	168	168	400
4500	75 000	2 649	76	100	100	100	168	168	168	168	168	168	450
5000	83 333	2 943	76	100	100	168	168	168	168	168	168	168	500
5500	91 667	3 237	76	100	100	168	168	168	168	168	168	168	550
6000	100 000	3 531	100	100	100	168	168	168	168	168	168	168	600
6500	108 333	3 826	100	100	100	168	168	168	168	168	168	168	650
7000	116 667	4 120	100	100	168	168	168	168	168	168	168	168*	700
10000	166 667	5 886	100	168	168	168	168	168	168*	168*	168*	168*	1000
11000	183 333	6 474	100	168	168	168	168	168	168*	168*	168*	168*	1100
12000	200 000	7062	100	168	168	168	168	168*	168*	168*	168*	168*	1200

QUICK CONNECTION TECHNOLOGY

Transair's innovative technology takes into account the specific requirements of each diameter and provides the user with an optimum safety coefficient and easy connection.

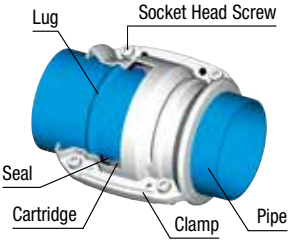


Ø16.5 - Ø25 - Ø40 mm

Simply push the pipe into the connector up to the connection mark. The gripping ring of each fitting is then automatically secured and the connection is safe.

Ø50 - Ø63 mm

Transair's SnapRing secures the connection between the nut and the pipe - tightening of the nuts secures the final assembly.



Ø76 - Ø100 - Ø168 mm

Position the pipes to be connected within the Transair® cartridge and close/tighten the Transair clamp.

TOOLING FOR RING MAIN

Tooling required for ring main assembly:

Tooling required for ring main assembly in Ø16.5, Ø25 or Ø40:

Transair®	
6698 03 01	PIPE CUTTER DIAM. 16.5 > DIAM. 76
6698 04 01	CHAMFER TOOL DIAM. 16.5 > DIAM. 40
6698 04 03	MARKING TOOL DIAM. 16.5 > DIAM. 40

Tooling required for ring main assembly in Ø50 or Ø63:

Transair®	
6698 03 01	PIPE CUTTER DIAM. 16.5 > DIAM. 76
6698 01 03	DRILLING JIG FOR RIGID ALUMINIUM PIPE DIAM. 25 > DIAM. 63
6698 02 01	DRILLING TOOL FOR RIGID ALUMINIUM PIPE DIAM. 40 > DIAM. 63
6698 04 02	DEBURRING TOOL
6698 05 03	SET OF TIGHTENING SPANNERS FOR DIAM. 50 AND DIAM. 63

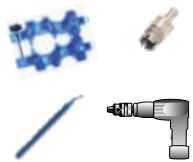
Tooling required for ring main assembly in Ø76, Ø100 and Ø168:

Transair®	
6698 03 01	PIPE CUTTER DIAM. 16.5 > DIAM. 76
EW08 00 03	PIPE CUTTER DIAM. 100 > DIAM. 168
EW01 00 01	PORTABLE TOOL KIT 220 V
EW02 L1 00	JAWS SET FOR PORTABLE TOOL DIAM. 76
EW02 L3 00	JAWS SET FOR PORTABLE TOOL DIAM. 100
EW02 L8 00	JAWS SET FOR PORTABLE TOOL DIAM. 168
6698 04 02	DEBURRING TOOL

TOOLING FOR DROPS

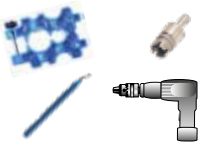
Tooling required to assemble a drop:

Tooling required to install a drop on a Ø25 or a Ø40 ring main:



Transair®	
6698 01 03	DRILLING JIG FOR RIGID ALUMINIUM PIPE DIAM. 25 > DIAM. 63
6698 02 02	DRILLING TOOL FOR RIGID ALUMINIUM PIPE DIAM. 25
6698 02 01	DRILLING TOOL FOR RIGID ALUMINIUM PIPE DIAM. 40 > DIAM. 63
6698 04 02	DEBURRING TOOL

Tooling required to install a drop on a Ø50 or Ø63 ring main:



Transair®	
6698 01 03	DRILLING JIG FOR RIGID ALUMINIUM PIPE DIAM. 25 > DIAM. 63
6698 02 01	DRILLING TOOL FOR RIGID ALUMINIUM PIPE DIAM. 40 > DIAM. 63
6698 04 02	DEBURRING TOOL

Tooling required to install a drop on a Ø76, Ø100 or Ø168 ring main:

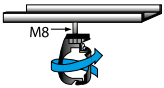
Transair®	
EW09 00 30	DRILLING TOOL FOR RIGID ALUMINIUM PIPE DIAM. 76 AND DIAM. 100
EW09 00 51	DRILLING TOOL FOR RIGID ALUMINIUM PIPE DIAM. 168 - 1 1/2"
EW09 00 64	DRILLING TOOL FOR RIGID ALUMINIUM PIPE DIAM. 168 - 2"
6698 04 02	DEBURRING TOOL

Tooling required to install a drop under pressure:

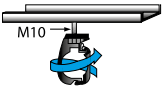
Transair®	
EA98 06 00	PRESSURISED SYSTEM DRILLING TOOL
EA98 25 04	PRESSURISED SYSTEM OUTLET DIAM. 25
EA98 40 04	PRESSURISED SYSTEM OUTLET DIAM. 40
EA98 50 04	PRESSURISED SYSTEM OUTLET DIAM. 50
EA98 63 03	PRESSURISED SYSTEM OUTLET DIAM. 63

TRANSAIR® FIXTURES

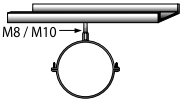
To ensure good system stability, we recommend the use of at least 2 clips per pipe. Transair® aluminium pipe should only be mounted using these clips. They should not be substituted by any other type of clip or fixing.



Ø16.5, Ø25 and Ø40
M8 nuts

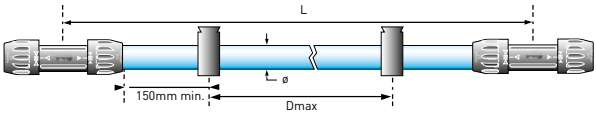


Ø50 - Ø63
M10 nuts



Ø76, Ø100 and Ø168
For Ø76 and Ø100: M8/M10 thread
For Ø168: M10 thread

Transair® Fixing Clip for all Diameters

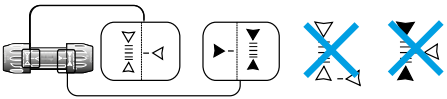


Ø	L (m)	Dmax (m)
16.5	3	2,5
25	3	2,5
25	6	3
40	3	2,5
40	6	4
50	3	2,5
50	6	4
63	3	2,5
63	6	4
76	3	2,5
76	6	5
100	3	2,5
100	6	5
168	3	2,5
168	6	5

RING MAIN ASSEMBLY

Assembly Rules per Diameter:

Ø16.5 / Ø25 / Ø40



1. Verify alignment of the arrows of the nuts and arrows of the fittings. They guarantee the threading torque of the nuts.

2. Push the pipe in the fitting to the "connection" marking at the end of the pipe. Mechanical connection and tightness will then be guaranteed.

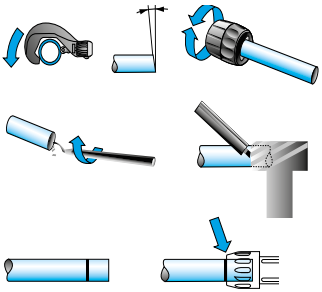
Connection length for all pipe-to-pipe fitting are equal to:

For 6602/6604/6606/4092 Connectors:

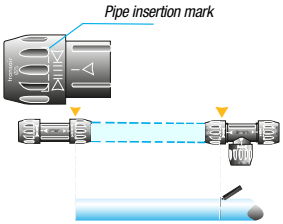
- 25 mm for Ø16.5
- 27 mm for Ø25
- 45 mm for Ø40

For 6625 End Cap:

- 39 mm for Ø16.5
- 42 mm for Ø25
- 64 mm for Ø40



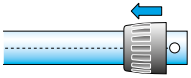
A mark indicating the insertion depth makes it easy to cut the tube to exact dimensions.



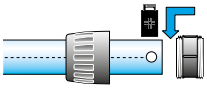
3. If you cut the pipe, don't forget to deburr it and to reproduce the connection length mark with marking tool.

RING MAIN ASSEMBLY

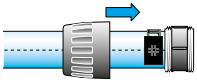
Ø50 / Ø63



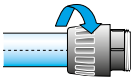
1. Unscrew one of the connector nuts and fit over the pipe.



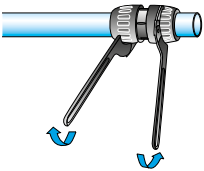
2. Position the SnapRing in the appropriate housings (2 holes at the end of the pipe).



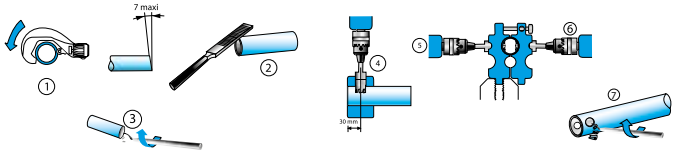
3. Bring the nut towards the body, that has been previously positioned at the end of the pipe, until it stops against the SnapRing.



4. Tighten the nut by hand.

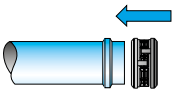


5. Complete the assembly with Transair® tightening spanners ref. 6698 05 03.

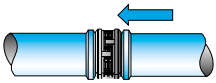


RING MAIN ASSEMBLY

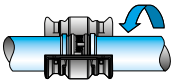
Ø76 / Ø100 / Ø168



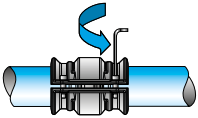
1. Slip the cartridge over the end of the first pipe fully up to the shoulder.



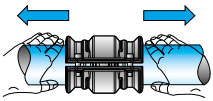
2. Bring the second pipe to the cartridge and slide fully up to the shoulder.



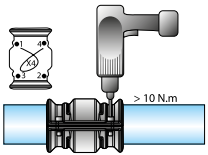
3. Position the clamp over the cartridge / pipe assembly.



4. Hand tighten the pre-fitted screws with an Allen key.



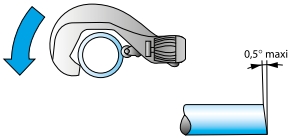
5. Pull the pipes fully back towards the outside of the clamp.

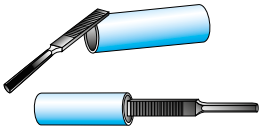


6. Fully tighten the clamp screws. For effective clamp sealing, screw tightening should be performed on alternate sides of the clamp as shown on the left.

RING MAIN ASSEMBLY

Ø76 / Ø100 / Ø168

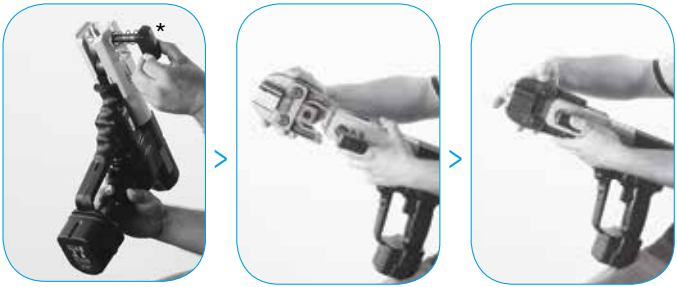




1. Cutting the pipe :
- place the pipe in the pipe cutter
- position the blade on the pipe
- rotate the pipe cutter around the pipe while gently tightening the wheel.

2. Carefully deburr and chamfer the outer and inner edges of the pipe with a file.

3. Preparing the tool to create the lugs:



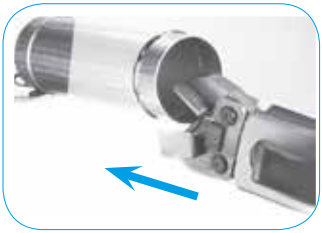
Open the retaining pin at the front of the machine by pressing the jaws release button*.

Place the jaws in the housing.

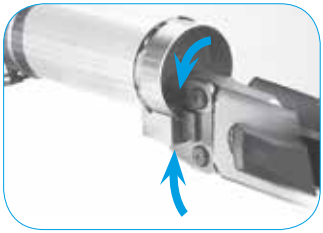
Lock in position by closing the retaining pin.

RING MAIN ASSEMBLY

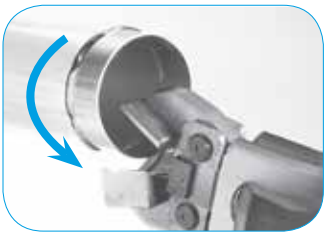
4. Creating the lugs for Ø76, Ø100 or Ø168 cut pipe:



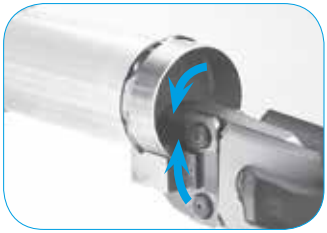
Manually open the jaws of the clamp and insert the aluminium pipe into the clamp as far as it will go.



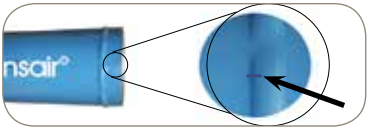
Release the jaws. Press the trigger and crimp the tube until a 'snap' sound is heard.



Re-open the two jaws to remove the pipe and rotate the pipe slightly.



Renew the operation until the required minimum number of lugs for each diameter is achieved.



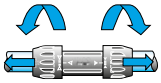
	Ø76	Ø100	Ø168
Min. Number of Lugs	6	7	10

Important: do not overlap the lugs!

NETWORK MODIFICATION

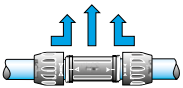
Ø16.5 / Ø25 / Ø40

Replacing a straight union by a tee or a valve:

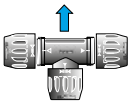


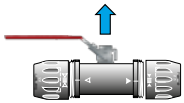
1. Loosen the 2 nuts.

2. Slide them along the pipe on either side of the connector.

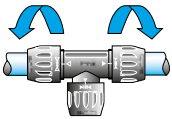


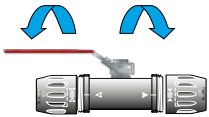
3. Remove the body of the connector, together with the nuts.





4. Slide the nuts of the tee and position the body of the tee between the 2 pipes such that the solid and empty arrows are facing each other.



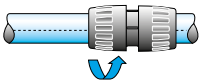


5. Re-tighten the nuts until the empty and solid arrows are aligned with each other.

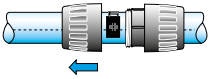
Unscrew the nuts from the side of the pipe that should be removed, slip them on the pipe, then take off the pipe.

NETWORK MODIFICATION

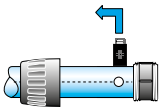
Ø50 / Ø63



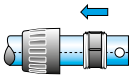
1. Loosen the connector nuts on the ends of the pipe to be removed.



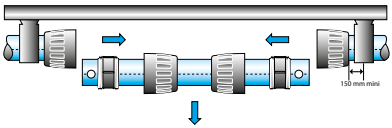
2. Slide them along the pipe.



3. Remove the SnapRing from their housings.



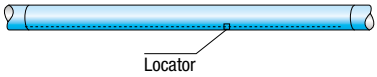
4. Slide the clamps and the connector body along the pipe which is to be removed.



5. Repeat the operation at the other end of the pipe and laterally remove the pipe, complete with the assembly components.

ASSEMBLY GUIDE FOR DROPS

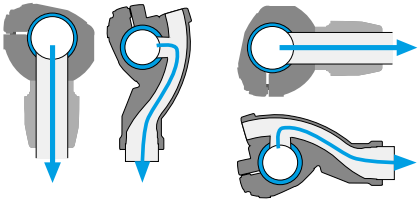
Introduction to Drop Assembly



On every pipe two lines are printed at 90° distance. They both allow installation of aligned or perpendicular brackets/ drops on the same pipe.

Vertical Drop

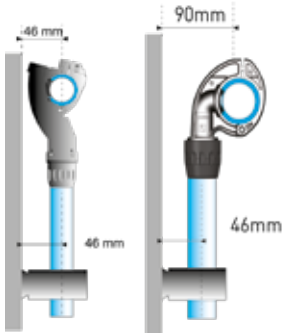
Horizontal Branch Line



Transair® quick assembly brackets can be installed vertically or horizontally.

Ø25 - Ø40

Ø50 - Ø63



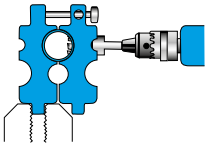
For Ø25 and Ø40 Transair® quick assembly brackets, the pipe centre to wall distance is equal to the bracket centre to wall distance, i.e. 46mm.

For Ø50 and Ø63 Transair® quick assembly brackets the pipe centre to wall distance is 90mm and the Ø25 and Ø40 bracket centre distance is 46mm.

ASSEMBLY GUIDE FOR DROPS

Ø25 / Ø40 / Ø50 / Ø63 —> Ø16.5 / Ø25

1. Mark the pipe at the desired position for the bracket. The mark should be placed on one of the locator marks so that multiple brackets are correctly aligned, when several take-off points are required.



> Place the drilling jig in a vice or on the floor and place the pipe in the jig.
> Ensure that the line marked on the pipe is centred within the drilling guide: 2 marks on either side of the jig's upper side provide a rapid indication of the pipe's positioning.
> Tighten the locking clamp to secure the pipe and drill using the appropriate drilling tool.

- Ø25: Ø16 mm hole > drilling tool **6698 02 02**
- Ø40-Ø50-Ø63: Ø22 mm hole > drilling tool **6698 02 01**

NB: Recommended rotation speed: 650 rpm.

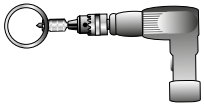
2. Loosen the locking clamp and release the pipe, deburr and remove any swarf and the cut circular aluminum piece of pipe. Repeat the operation for the number of brackets that you wish to fit.

3. Position the quick assembly bracket using its location hole.

4. Tighten the screw with Allen key Hex 5 mm or Hex 3/16 inch. Torque: 5-10 N.m

ASSEMBLY GUIDE FOR DROPS

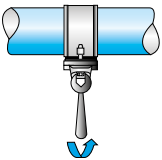
Ø76 / Ø100 / Ø168 —> 1", 1 1/2", 2"



1. Drill the aluminum pipe at the desired position using drilling tool ref. **EW09 00 30, EW09 00 51, EW09 00 64**.

NB: Recommended rotation speed: 650 rpm.

2. Carefully deburr the pipe.



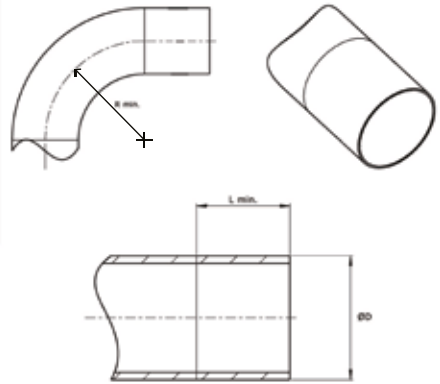
3. Position bracket ref. RR61 / RR63 and fully tighten the 2 screws.

Diameter	Transair®	Bolt Torque (Nm)
Ø76	RR61 L1 08	50 Nm
Ø100	RR61 L3 08	50 Nm
Ø168	RR63 L8 12	50 Nm
Ø168	RR63 L8 16	50 Nm

BENDING

ALL DIAMETERS

Thanks to their technical characteristics, Transair® aluminium pipes can be bended according to the following specifications :



Transair®	R min. (mm)	L min. (mm)
Ø16.5	102	185
Ø25	154	185
Ø40	250	185
Ø50	300	185
Ø63	394	185
Ø76	317	185
Ø100	423	185
Ø168	700	185

The above values have been validated with an industrial bending technique (for more information on Transair® tube bending techniques, please contact us).

ADDITIONAL PRODUCTS

To complete the installation you will find hereafter a list of accessories you may need. Please contact us for further information and product part numbers.

Composite Automatic Safety Couplers:

- For quick and repetitive connection and disconnection
- 100% safety
- Very high flow, extremely low pressure loss

Profiles available:
ISO B 5,5 mm
ISO B 8 mm
EURO 7,2 mm
ARO 5,5 mm

PU Recoil Tubing:

- Perfectly suited to installations requiring flexibility in a reduced space

Lengths available: 2m, 4m or 6m
with internal diameters: 4 mm, 5mm, 7mm, 8mm

Blowgun:

- Dusting, cooling and drying components
- Removing swarf
- Cleaning machinery
- Compliance with OSHA 1910.242 (b) and OSHA 1910.95 (b)

Hose Reels:

- Optimise productivity and the safety of your work area
- Prevent hose damage occurring on the workshop floor

Lengths available: 10m, 16m or 21m
with internal diameter: 8 mm, 10 mm, 12,5 mm

Filters, Regulators, Lubricators and Manometers:

- Can be fitted downstream of the compressed air installation and at the take-off point on workstations and machines.

Ports available: 1/4" or 1/2"
Filter, regulator, lubricator and manometer available separately or as a complete set.

SPECIAL PRODUCTS

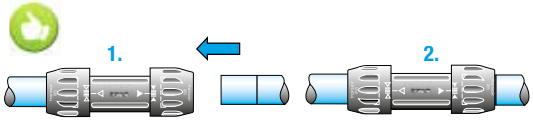
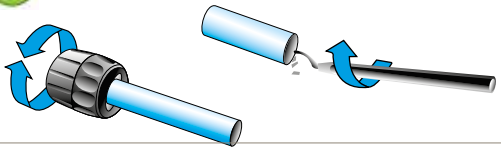
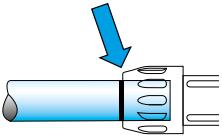
For specific needs, we can develop tailor made products.

These special requests can include:
- Pre-assembly of existing products
- Drilling of pipes
- Pipes cutting and hoses preparation
- Special colored pipes
- Pipe bending
- Special manifold or wall brackets.

Please contact us for further information.

DO'S

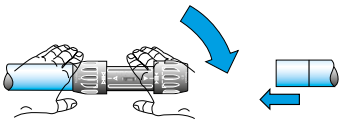
Ø16.5 / Ø25 / Ø40

> Connection	
> Use a pipe cutter	
> Carefully chamfer and deburr the pipe after cutting or drilling	
> Check that the pipe is correctly positioned in the connector	

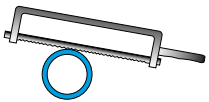
DON'TS

Ø16.5 / Ø25 / Ø40

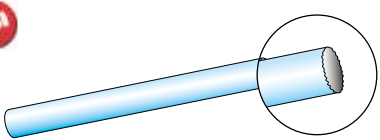
> Don't loosen the nuts during assembly



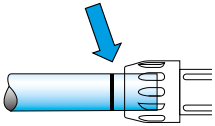
> Don't cut the pipe with the saw



> Don't use non-debur-red pipe



> Don't fail to make the pipe secure



> Don't overtight with pliers

FINAL COMMISSIONING

Transair Advice for Final Commissioning of a Compressed Air Network

Example - considering a system working at 6 bar pressure.

1. Run compressor at 3bar pressure to check integrity of the Transair system and that the compressors are running correctly.

2. Leave the pipework under pressure for a period of 12 hours overnight. During this period the Transair system should be isolated from machine and tools (drops valve should be closed).

3. Upon checking of the system after the 12 hour period, the compressor read can show a 0.3bar pressure loss from 3bar to 2.7bar (with constant temperature).

4. The system pressure is increased to design pressure (6 bar in this example) for a further 4 hours again (with no leak recorded from the Transair® system).

5. The system is then increased to 9bar (1.43x the max operating pressure) for a period of 1 hour with no further issues (NB: for this test, pressure of the system can exceed 16bar).

6. Purge the system, and you can start to work.

Legal Requirement for Installers according to PED 2014/68/EU - ANNEX I Essential Safety Requirements

" ***3.2. Final Assessment:***
pressure equipment must be subject to final assessment as described below.

3.2.1. Final Inspection:
pressure equipment must undergo a final inspection to assess visually and by examination of the accompanying documents compliance with the requirements of the Directive. Test carried out during manufacture may be taken into account.

3.2.2. Proof Test:
final assessment of pressure equipment must include a test for the pressure containment aspect, which will normally take the form of a hydrostatic pressure test at a pressure at least equal, where appropriate, at the maximum allowable pressure multiplied by the coefficient 1.43.

For category I series-produced pressure equipment, this test may be performed on a statistical basis. For series-produced pressure equipment under the article 4.3, this test is not necessary. "

FINAL COMMISSIONING

For the Transair system, the category is defined according to the diameter and the working pressure:

	1 bar	7 bar	10 bar	13 bar	16 bar
Ø16.5	Article 4.3	Article 4.3	Article 4.3	Article 4.3	Article 4.3
Ø25	Article 4.3	Article 4.3	Article 4.3	Article 4.3	Article 4.3
Ø40	Article 4.3	Article 4.3	Article 4.3	Article 4.3	Article 4.3
Ø50	Article 4.3	Article 4.3	Article 4.3	Article 4.3	Article 4.3
Ø63	Article 4.3	Article 4.3	Article 4.3	Article 4.3	Category I
Ø76	Article 4.3	Article 4.3	Article 4.3	Article 4.3	Category I
Ø100	Article 4.3	Article 4.3	Category I	Category I	Category I
Ø168	Article 4.3	Category I	Category I	Category I	Category I

Requested Documentation for Category I Equipment

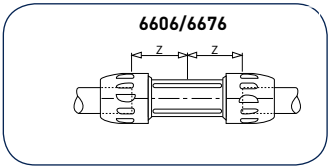
To comply with the PED here is a list of documents you should provide to the end user and how to get them for Transair.

- **Assembly Guide:** for every diameter it is delivered with the Transair® pipes or fittings.
- **CE Certificate:** Transair® conforms the European Pressure Equipment Directive 2014/68/EU for article 4.3 and category I. Contact Parker Transair for the latest version.
- **ISO 9001 Certificate:** this document has a validity date.
Contact Transair for the latest version.
- **Material Certificate 3.1 for Pipes:** it attests the conformity of the aluminum used (according to NF EN 10204). Ask for this document when placing the order. If needed you can also ask it after delivery with the batch number marked on the pipes (see example on this picture).

- **Material Certificate for Fittings:** the certificate 2.2 attests the quality checks completed during production (according to NF EN 10204). Ask for this document when placing the order, it can't be issued after as the name of the client and the order number have to be indicated on the certificate.
- **Isometric Plan of the System:** if needed, the Transair® quotation service can help you providing a drawing of the network (transair.quotation@parker.com).
- **Calculation Note:** Transair® aluminum pipes are produced according to EN 755-2 which defines the mechanical characteristics, and the TÜV certificate includes control of the design and of the safety factors. If you need more information, please contact Parker Transair.

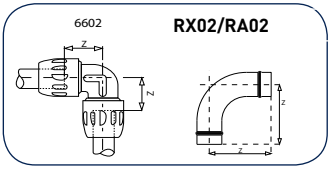
Z DIMENSIONS

6606/6676	Z (mm)
Ø16.5	35
Ø25	48
Ø40	57
Ø50	25
Ø63	25



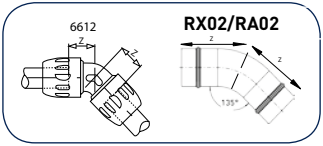
6602	Z (mm)
Ø 16.5	31
Ø 25	40
Ø 40	62
Ø 50	56
Ø 63	61

RX02/RA02	Z (mm)
Ø 76	189
Ø 100	227
Ø 168	185

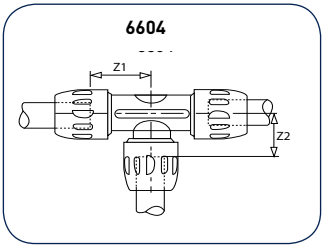


6612	Z (mm)
Ø25	32
Ø40	45
Ø50	38
Ø63	37

RX02/RA02	Z (mm)
Ø76	122
Ø100	138
Ø168	147



6604	Z1 (mm)	Z2 (mm)
Ø 16,5	34	31
Ø 25	48	40
Ø 40	57	57
Ø 50	56	56
Ø 50 -> Ø 25	56	111
Ø 50 -> Ø 40	56	107
Ø 63	61	61
Ø 63 -> Ø 40	61	116
Ø 63 -> Ø 50	61	117



RA04	Z1(mm)	Z2 (mm)
Ø76 -> Ø100	161	149
Ø100 -> Ø168	194	161

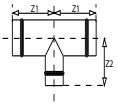
RA04 + 6606	Z1(mm)	Z2 (mm)
Ø63-> Ø76	224	142

Z DIMENSIONS

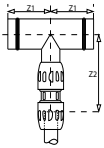
RX04/RA04	Z1 (mm)	Z2 (mm)
Ø76	146	146
Ø100	156	136
Ø168	180	185
Ø100 -> Ø76	156	136
Ø168 -> Ø76	180	185
Ø168-> Ø100	180	185

RX24/RA04 + 6606	Z (mm)	Z (mm)
Ø76-> Ø40	146	219
Ø76-> Ø50	146	210
Ø76-> Ø63	146	213
Ø100 -> Ø40	156	232
Ø168 -> Ø50	156	223
Ø168-> Ø63	156	226
Ø168-> Ø63	180	220

RX04/RA04



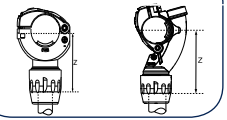
RX24/RA04+6606



RA69	Z (mm)
Ø25 -> Ø16.5	47
Ø40 -> Ø25	63
Ø50 -> Ø25	63
Ø63 -> Ø25	63

6662	Z (mm)
Ø25 -> Ø16.5	82
Ø25 -> Ø25	74
Ø40 -> Ø16.5	89
Ø40-> Ø25	82
Ø50 -> Ø25	58
Ø63 -> Ø25	65

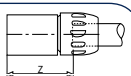
RA69 **6662**



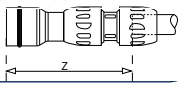
6666	Z (mm)
Ø25 -> Ø16.5	82
Ø40 -> Ø25	74
Ø50 -> Ø25	89
Ø50 -> Ø40	82
Ø63 -> Ø40	58
Ø63 -> Ø50	65

RX64/RA66	Z (mm)
Ø76 -> Ø50	270
Ø76 -> Ø63	280
Ø100 -> Ø50	393
Ø100 -> Ø63	300
Ø100 -> Ø76	193
Ø168 -> Ø76	210
Ø100-> Ø168	210

6666



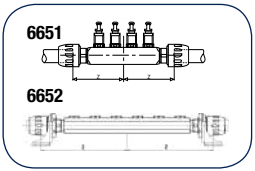
RX64+RA66



Z DIMENSIONS

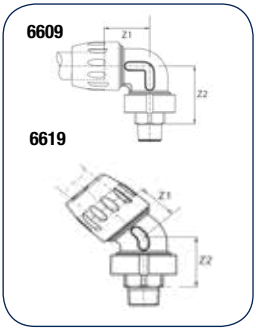
6651	Z (mm)
Ø16.5	107
Ø25	61

6652	Z (mm)
Ø16.5	204
Ø40	217



6609	Z1 (mm)	Z2 (mm)
Ø16,5 - > 1/4	31	41
Ø16,5 - > 1/2	31	46
Ø25 - > 1/2	40	53
Ø25 - > 3/4	40	53
Ø25 - > 1"	40	55
Ø40 - > 1"	62	75
Ø40 - > 1"1/4	62	81
Ø40 - > 1"1/2	62	81
Ø40 - > 2"	62	81
Ø50 - > 1"1/2	56	97
Ø50 - > 2"	56	99
Ø63 - > 2"	61	104
Ø63 - > 2"1/2	61	106

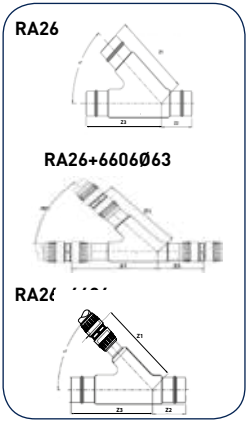
6619	Z1 (mm)	Z2 (mm)
Ø16,5 - > 1/4	32	42
Ø16,5 - > 1/2"	32	42
Ø25 - > 1/2"	32,5	44
Ø25 - > 3/4	45	58
Ø25 - > 1"	45	64
Ø40 - > 1"	45	64
Ø40 - > 1"1/4	45	64
Ø40 - > 1"1/2	38	80
Ø40 - > 2"	38	82
Ø50 - > 1"1/2	37	81
Ø50 - > 2"	38	80
Ø63 - > 2"	38	82
Ø63 - > 2"1/2	38	82



RA26	Z1 (mm)	Z2 (mm)	Z3 (mm)
Ø76	260	106	260
Ø100	280	116	280
Ø100 - > Ø76	280	116	280
Ø168	350	126	350
Ø168 -> Ø100	330	86	306

RA26+6606 Ø63	Z1 (mm)	Z2 (mm)
Ø63	280	252

RA26+6606	Z1 (mm)	Z2 (mm)	Z3 (mm)
Ø76 -> Ø40	344	106	260
Ø76 -> Ø50	330	106	260
Ø76 -> Ø63	330	106	260
Ø100 - > Ø63	330	116	280

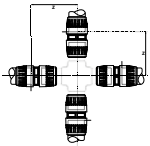


Z DIMENSIONS

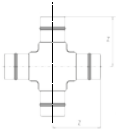
RA07+6606	Z (mm)
Ø40	240
Ø50	228
Ø63	232

RA07	Z (mm)
Ø76	149
Ø100	161
Ø168	191

RA07 +6606

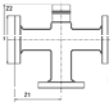


RA07



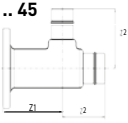
RA07 45	Z1 (mm)	Z2 (mm)
Ø76 -> DN80	207	149
Ø100 -> DN100	219	161
Ø168 -> DN150	258	191

RA07 45



RA44 45	Z1 (mm)	Z2 (mm)
Ø76 -> DN80	207	149
Ø100 -> DN100	219	161
Ø168 -> DN150	258	191

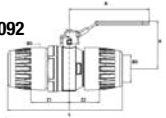
RA44 45



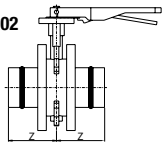
4092	Z1 (mm)	Z2 (mm)
Ø 16,5	29	43
Ø 25	41	57
Ø 40	56	58
Ø 50	43	60
Ø 63	66	77

VR02	Z (mm)
Ø76	100
Ø100	103
Ø168	128

4092



VR02



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Qualicoat painting

Diameters (in mm)
16.5 - 25 - 40 - 50 - 63 - 76 - 100 -168

Colours
Available in blue - grey - green
Other colours upon request

Maximum Working Pressure*
16 bar (from -20°C to +45°C)
up to diameter 100 mm
13 bar (from -20°C to +60°C)
for all diameters
7 bar (from -20°C to +85°C)
for all diameters

Vacuum Level
99,9% (1 mbar absolute pressure)

Working Temperature -20°C to 85°C

NBR Seals

Compatibility
Lubricated or oil-free compressed air, industrial vacuum, nitrogen (99,99% purity), inert gases

*TÜV Certification

Stainless Steel Range

Stainless Steel Pipes
AISI 304 or 316L

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22 - 28 - 42 - 60 - 76 -100

Maximum Working Pressure*
10 bar (from -10°C to +60°C)
for all diameters
7 bar (from -10°C to +90°)
for all diameters

Vacuum Level
99,9% (1 mbar absolute pressure)

Working Temperature
-10°C to 90°C

EPDM or FKM Seals

Compatibility
Cooling water, industrial water with additives, lubricating oil, compressed air, inert gases

*TÜV Certification

Certification

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BIM - Building Information Modeling - is a collaborative e-platform of a construction project, gathering all the actors of this project, according to a common language. All Transair® families are now available, in REVIT format, in LOD (Level Of Detail) 200 and 400.

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Defines the recommended diameter for your project, estimates your pressure drops, and gives the maximum flow rate by diameter.

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