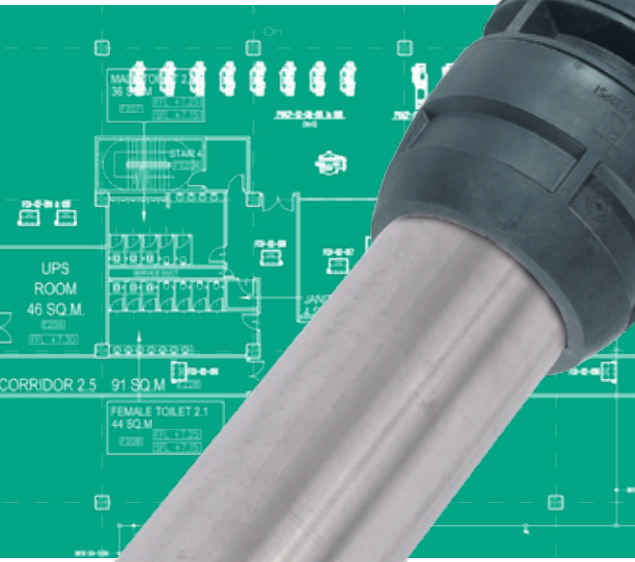
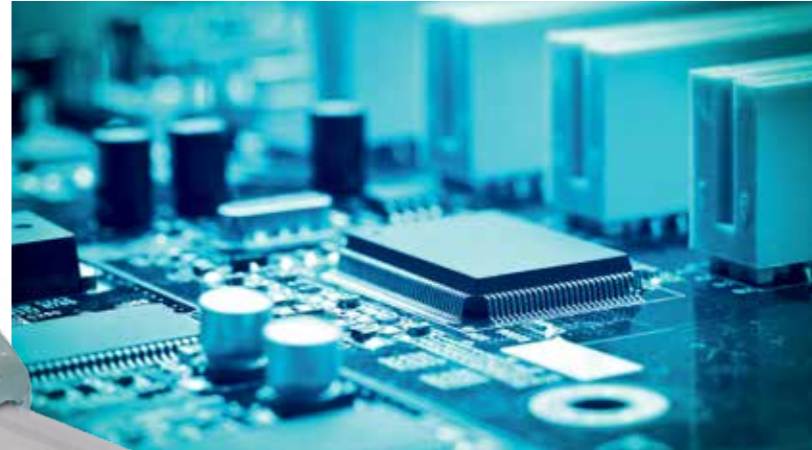


TRANSAIR® STAINLESS STEEL RANGE

FOR INDUSTRIAL WATER AND OIL,
COMPRESSED AIR, VACUUM
AND INERT GAS



Technical Information	114 to 119
Technical Specifications	114
Chemical Compatibility	115
Sizing a Network	116
Transair® Standards and Certifications	117
Material Stainless Steel Range	118
Transair® Connection Technologies	119

Product Range	121 to 133
Stainless Steel Pipe	122
Pipe-to-Pipe & Stud Connectors	124
Quick Assembly Bracket and Wall Brackets	129
Ball Valves & Butterfly Valves	130
Tools	132
Fixtures & Accessories	133

Installation Guide	135 to 151
The Golden Rules of Installation	136
Stainless Steel Pipe	138
Transair® Connectors	142
Practical Examples	146
Attachment and Support	147
Fitting a Bracket	148
Bending a Stainless Steel Pipe	149
Practical Information	150

Stainless Steel Drops	152 - 153
------------------------------	------------------

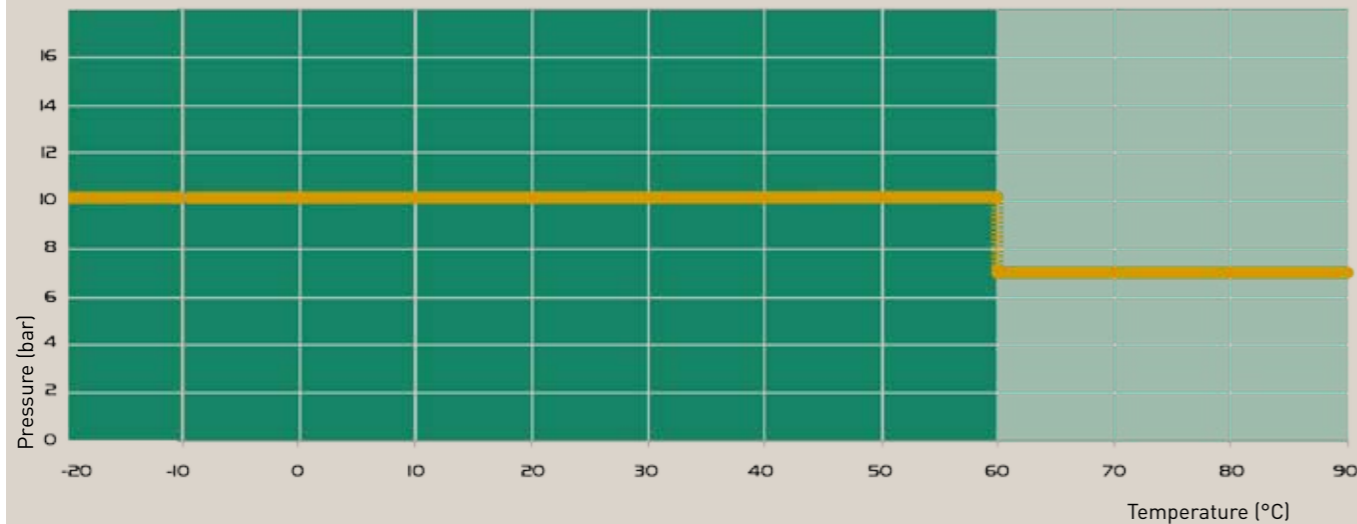
Parker Products from the Technical Room to the Heart of Production	154
Index	158

TECHNICAL SPECIFICATIONS

Fluids

- Industrial water
- System compatible with additives (glycol or inhibitors) which prevent the formation of algae or fungus (list available upon request)
- Lubricating oils
- Compressed air (dry, wet, lubricated)
- Vacuum
- Inert gases (argon, nitrogen)
- Others: please consult us

Maximum Working Pressure According to the Temperature



Working Pressure

- 10 bar from -20°C to +60°C
- 7 bar from -20°C to +90°C

Expansion Coefficient

- Expansion coefficient of Transair® stainless steel pipe: 0.016 mm per metre per degree celcius

Resistance

- to corrosion
- to aggressive environments
- to mechanical shocks
- to thermal variations
- to U.V.

Environment and Sustainable Development

Transair® materials are 100 % recyclable.

Water Hammer

Ø22, Ø28: comply with standard BS, 7291 part 1
Ø42, Ø60, Ø76, Ø100: comply with standard NF T54-091

CHEMICAL COMPATIBILITY

1 Compatible

2 Compatible (except for diameters 22-28 mm in bronze)

3 Do not use

CHEMICAL PRODUCT	SYMBOL	SEAL SELECTION		CHEMICAL PRODUCT	SYMBOL	SEAL SELECTION	
		EPDM	FKM			EPDM	FKM
• Acetaldehyde, Aldehyd acid	C2H4O	2	3	• Methanol, methyl alcohol (MKB, MEK, MIBK)		1	3
• Acetic acid (10%, 20°C)	CH3COOH	2	3	• Methyl Alcohol	CH4O	1	3
• Acetic acid (50%, 20°C)	CH3COOH	3	3	• Mineral oil		3	1
• Acetone, Propan-2-one, Dimethyl cetone	C3H6O	1	3	• Motor oil		3	1
• Air (dry)		1	1	• MPG, mono propylen glycol	C3H8O2	2	2
• Air (lubricated)		3	1	• Naphta		3	1
• Ammonia liquid	NH3 + H2O	2	3	• Nitric acid	HN03	3	3
• Ammonium hydroxide	NH4OH	3	3	• Nitrogen (gas)	N	1	1
• Ammonium nitrate		2	2	• Oil ASTM n°1		3	1
• Ammonium phosphate		3	2	• Oil ASTM n°2		3	1
• Argon (gas)	Ar	1	1	• Oil ASTM n°3		3	1
• Boric acid (23°C)	H3BO3	1	1	• Oxalique acid (10%, 23°C)	H00C-COOH	2	2
• Brine	NaCl + H2O	2	2	• Oxygen (>20%)	O	3	3
• Calcium hydroxide, Slaked lime	Ca(OH)2	1	1	• Ozone	O	2	2
• Carbolic acid		3	3	• Perchloric acid (70%)		3	3
• Carbon monoxide (60°C)	CO	1	1	• Phosphate ester hydraulic fluid, Skydrol		1	3
• Carbon dioxide (dry)	CO2	1	1	• Phosphoric acid, Orthophosphoric acid	H3PO4	2	2
• Carbon dioxide (wet or 60°C)	CO2	3	2	• Potassium hydroxide (50%, 85°C)	KOH	2	3
• Carbon sulfite		3	2	• Sea water	H2O,NaCl	2	2
• Chlorine (sea chlorinated fluid)		3	3	• Silicon emulsions		1	1
• Citric acid (50%)	C6H8O7	2	2	• Sodium bicarbonate, baking soda (23°C)		1	1
• Diacetone alcohol	C6H12O2	1	3	• Sodium carbonate		1	1
• Ethane-diol, monoethylene glycol, MEG	C2H6O2	2	2	• Sodium hydroxide, caustic soda (50%)	NAOH	2	3
• Ethylene glycol	C2H4 (OH)2	1	1	• Sodium nitrite		2	2
• Formic acid, methanoic acid	CH2O2	3	3	• Sodium peroxide	Na2O2	3	3
• Gallic acid (5%)	C7H6O5	1	1	• Sodium phosphate	NA3PO4	2	2
• Glycol		1	1	• Sodium sulphate	Na2SO4	1	1
• Glycolic acid (50%)		3	3	• Aqueous solution of detergent		2	2
• Helium (gas)	He	1	1	• Sulfuric acid (10%, 20°C)	H2SO4	3	3
• Hydraulic fluid - mineral oil	-	3	1	• Tartric acid (50%, 23°C)		3	2
• Hydraulic fluid - petroleum based	-	3	1	• Trichlorethylene, Trichloride ethylene	C2HCl3	3	3
• Hydraulic fluid - silicone based	-	1	1	• Triethanolamine, TEA	C6H15O3N	2	3
• Hydrofluoridric acid	HF	3	3	• Water demineralised	H2	2	2
• Hydrogen bromide (20%)	HBr	3	3	• Water drinkable	H2O	3	3
• Hydrogen peroxide (30%)	H2O2	3	1	• Water industrial	H2	1	1
• Hydrogen sulfide	H2S	3	3	• Water with chlorine (5%, 23°C)	H2O,Cl,NaOCl	3	3
• Hydrolchloric acid (3%), Hydrogen chloride	HCl	3	3				

This information is given for information only.

For further information and specific conditions of use, please contact our technical department.

SIZING A NETWORK

Select the Transair® diameter for your application, based on required flow against pressure drop.

Estimated values for a closed loop network, a pressure of 4 bar with less than 10% pressure drop.
Velocity: 4 m/s.

Estimated Flow Rate				Equivalent Length									
				32.8 ft	65.6 ft	98.4 ft	131.2 ft	164 ft	246 ft	328 ft	492 ft	656 ft	984 ft
m³/h	l/s	l/min	cfm	10 m	20 m	30 m	40 m	50 m	75 m	100 m	150 m	200 m	300 m
0.5	0.14	8	0.3	22	22	22	22	22	22	22	22	22	28
1	0.28	17	0.6	22*	22*	22*	22*	22*	28	28	28	28	42
2.5	0.69	42	1.5	22*	28*	28*	28*	42	42	42	42	42	42
3.5	0.97	58	2.1	28	28	42	42	42	42	42	42	42	60
5	1.39	83	3	28*	42*	42*	42*	42*	42*	42*	60	60	60
10	2.77	167	6	42*	42*	42*	60*	60*	60*	60*	60*	76	76
15	4.17	250	9	42*	60*	60*	60*	60*	60*	76	76	76	76
20	5.56	333	12	60*	60*	60*	60*	60*	76*	76*	76*	100	100
30	8.33	500	18	60*	60*	76*	76*	76*	76*	100*	100*	100*	100*
40	11.11	667	24	76*	76*	76*	76*	76*	100*	100*	100*	100*	
50	13.89	833	29	76*	76*	76*	100*	100*	100*	100*			
75	20.83	1250	44	100*	100*	100*	100*	100*					
80	22.22	1333	47	100*	100*	100*	100*	100*					
100	27.78	1667	59	100*	100*	100*	100*						

* These results should be taken into account in order to ensure the best practice for industrial water networks. An anti-water hammer device is necessary for the protection of regulation components of other fragile elements.

Example (with the above values)

- Main network length (main ring): 50 metres
- Required flow rate: 15 m³/h
- Working pressure: 4 bar
- Pressure drop < 10 %
- Velocity: 4m/s
- The most suitable Transair® diameter is: Ø60.

DIN 1988

The pressure drop per diameter is stated for a flow rate and a velocity, at a temperature of 20°C. Technical data sheet available upon request.

TRANSAIR® STANDARDS AND CERTIFICATIONS

Transair® stainless steel range certifications fall within the standard and regulation universe described on pages 8 and 9 of this catalogue.

Standards Related to Transair® Stainless Steel Pipe



Transair® stainless steel range conforms to the standards below related to mechanical and chemical properties per diameter.

	Ø 22 - Ø 28	Ø 42 - Ø 60	Ø 76 - Ø 100
Manufacturing Standards	EN 10217-7	EN 10217-7	EN 10217-7
Grade	EN 10088-2, 4404, AISI 316L	1.4301 / AISI 304	1.4301 / AISI 304
Welding Standard	DIN 17 457, EN 10217-7	DIN 17 457, EN 10217-7	DIN 17 457, EN 10217-7
Tolerances	DVGW - W541	EN 1127D4/T3	EN 1127D4/T3

The quality and consistency of the stainless steel grade used allow to bend Transair® stainless steel pipe according to the best practice, as described in page 149 of this catalogue.

Applications



FDA Certificate – CFR 21

Transair® stainless steel drops diameter 22mm presented on pages 152 and 153 of this catalogue conform to FDA – CFR 21 requirements.

Safety



UL94 Certificate

All Transair® components are non-flammable with no propagation of flame.

Pipe-to-pipe connectors, ball valves and butterfly valves conform to UL94HB standards.

The above mentioned certificates are available upon request.

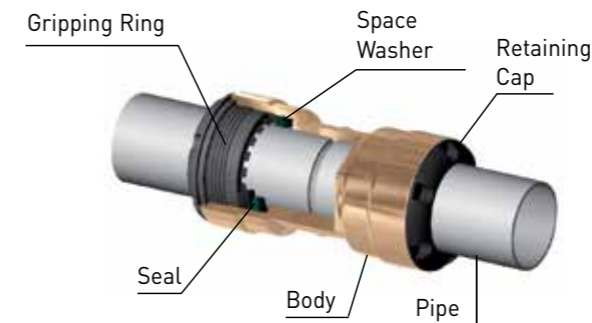
MATERIAL STAINLESS STEEL RANGE

TRANSAIR® CONNECTION TECHNOLOGIES

	Ø22 - Ø28	Ø42 - Ø60	Ø76 - Ø100
PIPE	316L Stainless Steel	304 Stainless Steel	304 Stainless Steel
CONNECTOR	Body: bronze Gripping Ring: stainless steel Retaining cap: HR Polymer	Body: HR Polymer Nut: HR Polymer Clamp: HR Polymer	Clamp: treated steel Cartridge: HR Polymer and stainless steel
90° ELBOW	Body: bronze Gripping Ring: stainless steel Retaining cap: HR Polymer	Body:HR Polymer Nut: HR Polymer	304 Stainless Steel
45° ELBOW	-	304 Stainless Steel	304 Stainless Steel
180° ELBOW	-	304 Stainless Steel	-
TEE	Body: bronze Gripping Ring: stainless steel Retaining cap: HR Polymer	Body:HR Polymer Nut: HR Polymer	304 Stainless Steel
REDUCING TEE	Body:bronze Gripping Ring: stainless steel Retaining cap: HR Polymer	-	304 Stainless Steel
IN-LINE REDUCER	Body: bronze Gripping Ring: stainless steel Retaining cap: HR Polymer	Treated Brass	304 Stainless Steel
END-CAP	Body: bronze Gripping Ring: stainless steel Retaining cap: HR Polymer	304 Stainless Steel	304 Stainless Steel
MALE STUD FITTING	Body: bronze Gripping Ring: stainless steel Retaining cap: HR Polymer	-	-
MALE ADAPTOR	-	Treated Brass	Treated Brass
WALL BRACKET	Treated Brass	-	-
BUTTERFLY VALVE	-	Body: iron / Handle: aluminium	Body and handle: iron Disc and shaft: stainless steel /Handle: aluminium
QUICK ASSEMBLY BRACKET	-	Iron and treated steel	Iron and treated steel
FLANGE	-	304 Stainless Steel	304 Stainless Steel
BALL VALVE	Body: nickel-plated brass Seal: PTFE		
FIXING CLIP	304 Stainless Steel		
NON SLIP CLIP	Collar: zinc-plated steel Lining: elastomer		
THREADED ROD	Steel		
SCREW TYPE BEAM CLAMP	Formed Steel		

All seals are available in EPDM or FKM (unless otherwise stated).

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



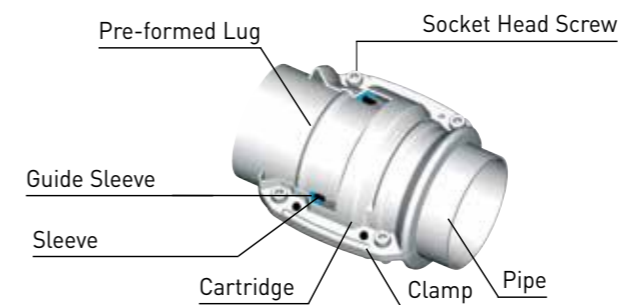
Ø22 - Ø28mm

Pipe-to-pipe and stud connectors in Ø22 and Ø28 can be immediately connected to Transair® stainless steel -pipe – 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.



Ø42 - Ø60mm

Pipe-to-pipe and stud connectors in Ø42 and Ø60 can be quickly connected to Transair® stainless steel pipe by means of a double clamp ring. This secures the connection between the nut and the pipe – tightening of the nuts secures the final assembly.









Ø76 - Ø100mm

Pipe-to-pipe and stud connectors in Ø76 and Ø100 can be quickly connected to Transair® stainless steel pipe. Position the pipes to be connected within the Transair® cartridge and close/tighten the Transair® clamp.



TRANSAIR® STAINLESS STEEL RANGE

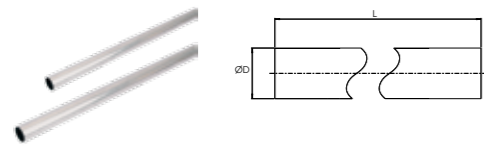
PRODUCT RANGE

Stainless Steel Pipe		122
Pipe-To-Pipe & Stud Connectors		124
Quick Assembly Brackets and Wall Brackets		129
Ball Valves and Butterfly Valves		130
Tools		132
Fixtures and Accessories		133



STAINLESS STEEL PIPE

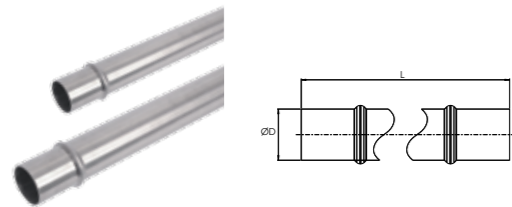
∅
22
28



STAINLESS STEEL PIPE AISI 316L

Transair®	∅D	ext.∅	int.∅	L(m)	Kg
TF03 N7 00	22	22	19.6	3	1.860
TF06 N7 00	22	22	19.6	6	3.720
TF03 N9 00	28	28	25.6	3	2.430
TF06 N9 00	28	28	25.6	6	4.860

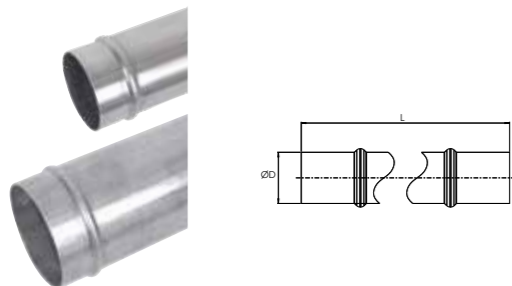
∅
42
60



STAINLESS STEEL PIPE AISI 304

Transair®	∅D	ext. ∅	int. ∅	L(m)	Kg
TX03 M4 00	42	42.3	39.1	3	4.902
TX06 M4 00	42	42.3	39.1	6	9.804
TX03 M6 00	60	60.3	57.1	3	7.053
TX06 M6 00	60	60.3	57.1	6	14.106

∅
76
100



STAINLESS STEEL PIPE AISI 304

Transair®	∅D	ext. ∅	int. ∅	L(m)	Kg
TX03 L1 00	76	76.1	72.9	3	8.955
TX06 L1 00	76	76.1	72.9	6	17.910
TX03 L3 00	100	101.6	97.6	3	14.964
TX06 L3 00	100	101.6	97.6	6	29.928

Please consult the installation guide on page 138 of this catalogue for pipe installation.

STANDARDS

	∅ 22 - ∅ 28	∅ 42 - ∅ 60	∅ 76 - ∅ 100
Manufacturing Standards	EN 10217-7	EN 10217-7	EN 10217-7
Grade	EN 10088-2, 1.4404 / AISI 316 L	1.4301 / AISI 304	1.4301 / AISI 304
Welding Standards	DIN 17 457, EN 10217-7	DIN 17 457, EN 10217-7	DIN 17 457, EN 10217-7
Tolerances	DVGW - W541	EN 1127 D4 / T3	EN 1127 D4 / T3

VOLUME AND MASS

∅ ext (mm)	∅ int (mm)	Value for 1 metre of pipe		
		Volume (l)	Pipe mass (kg)	Mass of the network full of water (kg)
22.0	19.6	0.30	0.627	0.929
28.0	25.6	0.51	0.808	1.323
42.3	39.1	1.20	1.616	2.817
60.3	57.1	2.56	2.331	4.892
76.1	72.9	4.17	2.958	7.132
101.6	97.6	7.48	4.944	12.425

FIXTURES AND ACCESSORIES

∅
22
↓
100



FIXING CLIP

Transair®	∅D	C
ER01 N7 00	22	M8 / M10
ER01 N9 00	28	M8 / M10
ER01 M4 00	42	M8 / M10
ER01 M6 00	60	M8 / M10
ER01 L1 00	76	M8 / M10
ER01 L3 00	100	M8 / M10

Maximum admitted static load: 210 daN

∅
42
60
76
100



NON SLIP STAINLESS STEEL CLIP

Transair®	∅D	C
EX01 M4 00	42	M8 / M10
EX01 M6 00	60	M8 / M10
EX01 L1 00	76	M8 / M10
EX01 L3 00	100	M8 / M10

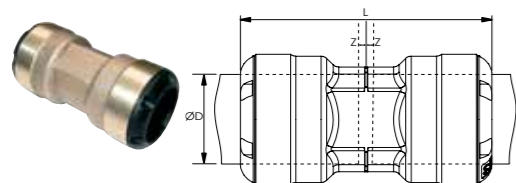
Maximum admitted static load: 200 daN

PIPE-TO-PIPE AND STUD CONNECTORS

The range of Transair® pipe-to-pipe and stud connectors provides versatility of design.

- Quick connection
- Dismountable and reusable
- Full bore design (consistent inner diameter for both pipe and connectors)

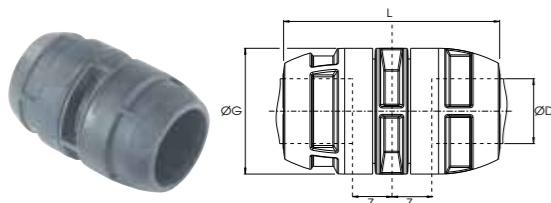
Ø
22
28



PIPE-TO-PIPE CONNECTOR

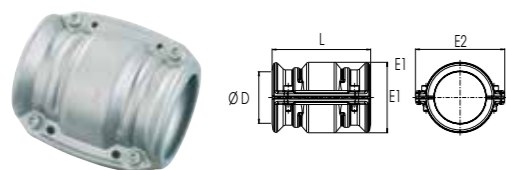
Transair®	Seal	ØD	L	Z	Kg
RR06 N7 01	EPDM	22	63.2	1.2	0.125
RR06 N9 01	EPDM	28	85.5	1.2	0.245
RR06 N7 02	FKM	22	63.2	1.2	0.125
RR06 N9 02	FKM	28	85.5	1.2	0.245

Ø
42
60



Transair®	Seal	ØD	ØG	L	Z	Kg
RP06 M4 01	EPDM	42	82	155	2.6	0.493
RP06 M6 01	EPDM	60	100	156	2.6	0.656
RP06 M4 02	FKM	42	82	155	2.6	0.493
RP06 M6 02	FKM	60	100	156	2.6	0.656

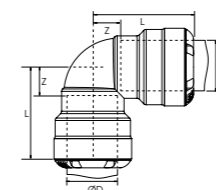
Ø
76
100



CONNECTOR (CLAMP + CARTRIDGE)

Transair®	Seal	ØD	L	E1	E2	M	N	Kg
RR01 L1 01	EPDM	76	146	104	132	88.7	51.4	1.131
RR01 L3 01	EPDM	100	146	128	157	125	52.7	1.480
RR01 L1 02	FKM	76	146	104	132	88.7	51.4	1.131
RR01 L3 02	FKM	100	146	128	157	125	52.7	1.480

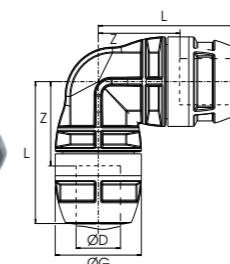
Ø
22
28



90° ELBOW

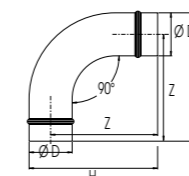
Transair®	Seal	ØD	L	Z	Kg
RR02 N7 01	EPDM	22	43.6	13.2	0.160
RR02 N9 01	EPDM	28	56	14.5	0.266
RR02 N7 02	FKM	22	43.6	13.2	0.160
RR02 N9 02	FKM	28	56	14.5	0.266

Ø
42
60



Transair®	Seal	ØD	ØG	L	Z	Kg
RP02 M4 01	EPDM	42	82	130	55	0.599
RP02 M6 01	EPDM	60	100	139	64	0.825
RP02 M4 02	FKM	42	82	130	55	0.599
RP02 M6 02	FKM	60	100	139	64	0.825

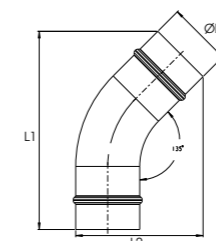
Ø
76
100



Transair®	ØD	H	Z	Kg
RX02 L1 00	76	227	189	1.033
RX02 L3 00	100	278	227	1.417

Use 2 connectors RR01 to connect elbow RX02 to Transair® stainless steel pipe.

Ø
42
60

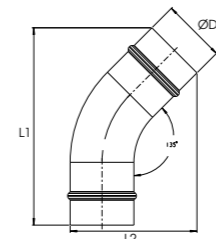


45° ELBOW

Transair®	ØD	L1	L2	Kg
RX12 M4 00	42	288	149	0.481
RX12 M6 00	60	300	167	0.527

Use 2 connectors RP06 to connect elbow RX12 to Transair® stainless steel pipe.

Ø
76
100

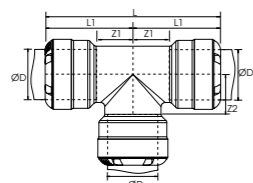


Transair®	ØD	L1	L2	Kg
RX12 L1 00	76	235.5	151.4	0.704
RX12 L3 00	100	271.4	184.3	1.309

Use 2 connectors RR01 to connect elbow RX12 to Transair® stainless steel pipe.

PIPE-TO-PIPE AND STUD CONNECTORS

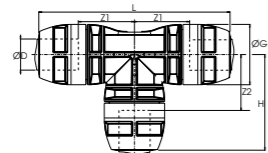
Ø
22
28



EQUAL TEE

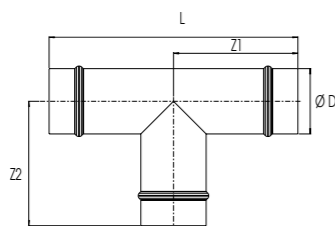
Transair®	Seal	ØD	L	L1	Z1	Z2	Kg
RR04 N7 01	EPDM	22	42.1	43.6	11.7	11	0.210
RR04 N9 01	EPDM	28	56	56	14.5	14.5	0.389
RR04 N7 02	FKM	22	42.1	43.6	11.7	11	0.210
RR04 N9 02	FKM	28	56	56	14.5	14.5	0.389

Ø
42
60



Transair®	Seal	ØD	ØG	L	H	Z1	Z2	Kg
RP04 M4 01	EPDM	42	82	260	130	55	55	0.894
RP04 M6 01	EPDM	60	100	279	139	64	64	1.200
RP04 M4 02	FKM	42	82	260	130	55	55	0.894
RP04 M6 02	FKM	60	100	279	139	64	64	1.200

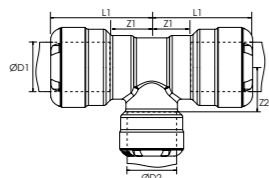
Ø
76
100



Transair®	ØD	L	Z1	Z2	Kg
RX04 L1 00	76	292	145	145	1.063
RX04 L3 00	100	312	155	135	1.787

Use 3 connectors RR01 to connect equal tee RX04 to Transair® stainless steel pipe Ø76 or Ø100.

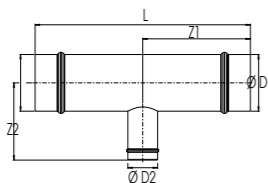
Ø
22
28



REDUCING TEE

Transair®	Seal	ØD1	ØD2	L1	Z1	Z2	Kg
RR04 N9 N7 01	EPDM	28	22	47	12	16	0.326
RR04 N9 N7 02	FKM	28	22	47	12	16	0.326

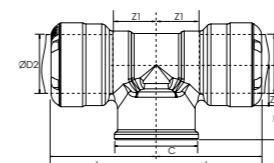
Ø
76
100



Transair®	ØD1	ØD2	L	Z1	Z2	Kg
RX04 L1 M4	76	42	290	145	183	1.029
RX04 L1 M6	76	60	290	145	183	1.103
RX04 L3 M4	100	42	310	155	195	1.680
RX04 L3 M6	100	60	310	155	195	1.739
RX04 L3 L1	100	76	310	155	135	1.637

Use 2 connectors RR01 to connect reducing tee RX04 to Transair® stainless steel pipe Ø76 or Ø100 and 1 connector RP06 to connect to Transair® stainless steel pipe Ø42 or Ø60.

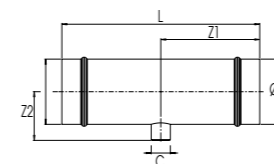
Ø
22



THREADED TEE

Transair®	Seal	ØD	C	L	L1	Z1	Z2	Kg
RR23 N7 06 01	EPDM	22	3/4"	42.1	30	11.7	13.7	0.189
RR23 N7 06 02	FKM	22	3/4"	42.1	30	11.7	13.7	0.189

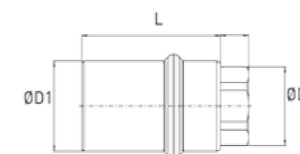
Ø
76
100



Transair®	ØD	C	L	Z1	Z2	Kg
RX23 L1 04	76	G1/2	292	145	63	0.892
RX23 L3 04	100	G1/2	312	155	75.8	1.564

Use 2 connectors RR01 to connect threaded tee RX23 to Transair® stainless steel pipe Ø76 or Ø100.

Ø
42
60

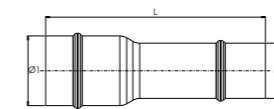


PLUG-IN REDUCER

Transair®	ØD1	ØD2	L	Kg
RR14 M4 06	42	G 3/4	88	0.600
RR14 M4 08	42	G 1	160	0.800
RR14 M6 06	60	G 3/4	92	1.000
RR14 M6 08	60	G 1	92	0.850

Use a connector RP06 to connect plug-in reducer RP14 to Transair® stainless steel pipe Ø42 or Ø60 and a connector RR05 to connect to Transair® stainless steel pipe Ø22 or Ø28.

Ø
60
76
100



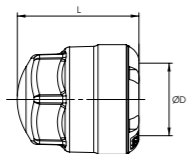
Transair®	ØD1	ØD2	L	Kg
RX66 M6 M4	60	42	220	0.376
RX66 L1 M6	76	60	240	0.549
RX66 L3 L1	100	76	192	0.702

Use a connector RR01 to connect plug-in reducer RX66 to Transair® stainless steel pipe Ø76 or Ø100 and a connector RP06 to connect to Transair® stainless steel pipe Ø60.

PIPE-TO-PIPE AND STUD CONNECTORS

QUICK ASSEMBLY BRACKETS AND WALL BRACKETS

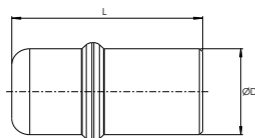
Ø
22
28



END CAP

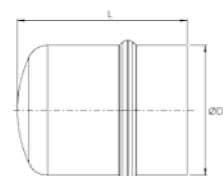
Transair®	Seal	ØD	L	Kg
RR25 N7 01	EPDM	22	41.1	0.081
RR25 N9 01	EPDM	28	54.5	0.146
RR25 N7 02	FKM	22	41.1	0.081
RR25 N9 02	FKM	28	54.5	0.146

Ø
42
60



Transair®	ØD	L	Kg
RR25 M4 00	42	85	0.465
RR25 M6 00	60	85	0.718

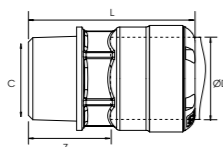
Ø
76
100



Transair®	ØD	L	Kg
RX25 L1 00	76	106	0.346
RX25 L3 00	100	107.4	0.539

Use 1 connector RR01 to connect end cap RX25 to Transair® stainless steel pipe Ø76 or Ø100.

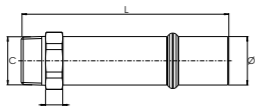
Ø
22
28



MALE STUD FITTING, BSP TAPER

Transair®	Seal	ØD	C	L	Z	Kg
RR05 N7 04 01	EPDM	22	1/2	51.1	20.7	0.100
RR05 N7 06 01	EPDM	22	3/4	52.6	22.2	0.104
RR05 N9 08 01	EPDM	28	1"	65.5	22.1	0.181
RR05 N7 04 02	FKM	22	1/2	51.1	20.7	0.100
RR05 N7 06 02	FKM	22	3/4	52.6	22.2	0.104
RR05 N9 08 02	FKM	28	1"	65.5	22.1	0.181

Ø
42
60

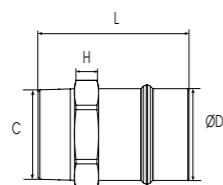


MALE ADAPTOR, BSP TAPER

Transair®	ØD	C	L	H	Kg
RR05 M4 06	42	3/4	117	10	0.557
RR05 M4 10	42	1"1/4	183	15	0.896
RR05 M4 12	42	1"1/2	183	15	0.588
RR05 M6 06	60	3/4	117	10	1.005
RR05 M6 16	60	2"	192	15	1.787
RR05 M6 20	60	2"1/2	195	15	1.217

Use 1 connector RP06 to connect end cap RR05 to Transair® stainless steel pipe Ø42 or Ø60.

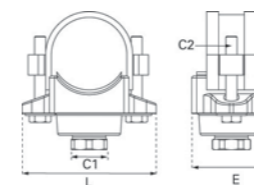
Ø
76



Transair®	ØD	C	L	H	Kg
RR05 L1 20	76	R2"1/2	125	20	1.968

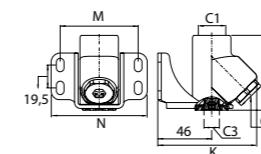
Use 1 connector RR01 to connect end cap RR05 to Transair® stainless steel pipe Ø76.

Ø
42
60
76
100



QUICK ASSEMBLY DIRECT FEED BRACKET

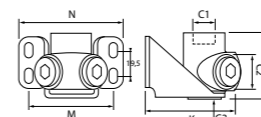
Transair®	Seal	ØD	C1	C2	E	L	Kg
RR82 M4 06 01	EPDM	42	3/4	M10	49	88	0.445
RR82 M6 06 01	EPDM	60	3/4	M10	62	117	0.900
RR82 L1 08 01	EPDM	76	1"	M12	50	137	1.950
RR82 L3 08 01	EPDM	100	1"	M12	80	158	1.960
RR82 M4 06 02	FKM	42	3/4	M10	49	88	0.445
RR82 M6 06 02	FKM	60	3/4	M10	62	117	0.900
RR82 L1 08 02	FKM	76	1"	M12	50	137	1.950
RR82 L3 08 02	FKM	100	1"	M12	80	158	1.960



1 PORT 45° THREADED WALL BRACKET, BSP PARALLEL

Transair®	C1	C2	C3	H	K	M	N	Kg
6641 21 21	G1/2	G1/2	G1/4	64	84.5	66.5	82	0.539

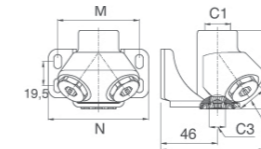
Supplied with G1/2" plug



2 PORT 90° THREADED WALL BRACKET, BSP PARALLEL

Transair®	C1	C2	C3	H	K	M	N	Kg
6686 21 21	G1/2	G1/2	G1/4	48	72.5	66.5	82	0.415

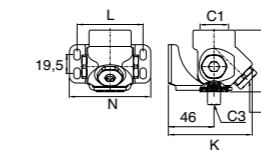
Supplied with G1/2" plugs



2 PORT 45° THREADED WALL BRACKET, BSP PARALLEL

Transair®	C1	C2	C3	H	K	M	N	Kg
6690 21 21	G1/2	G1/2	G1/4	64	84.5	66.5	82	0.672

Supplied with G1/2" plugs



3 PORT THREADED WALL BRACKET, BSP PARALLEL

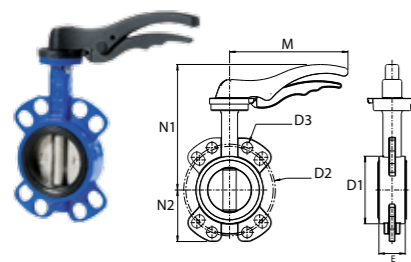
Transair®	C1	C2	C3	H	K	M	N	Kg
6635 27 21	G3/4	G1/2	G1/4	64	84.5	66.5	82	0.750

Supplied with G1/2" plugs

BALL VALVES AND BUTTERFLY VALVES

Transair® ball valves and butterfly valves placed regularly throughout the network and at key locations allow ease of system isolation, adaptation and maintenance. These valves are silicone-free.

BUTTERFLY VALVE



Transair®	Seal	ØD	DN	ØD1	ØD2	ØD3	M	N1	N2	E	Kg
VR02 M4 01	EPDM	42	32	73	100	18	192	178	56	33	1.700
VR02 M4 02	FKM	42	32	73	100	18	192	178	56	33	1.700
VR02 M6 01	EPDM	60	50	89	125	18	170	176	62	43	2.100
VR02 M6 02	FKM	60	50	89	125	18	170	176	62	43	2.100
VR02 L1 01	EPDM	76	80	118	160	18	206	219	90	46	3.200
VR02 L1 02	FKM	76	80	118	160	18	206	219	90	46	3.200
VR02 L3 01	EPDM	100	100	150	180	18	206	239	106	52	4.300
VR02 L3 02	FKM	100	100	150	180	18	206	239	106	52	4.300

Models with CE marking. NBR seal. EW06 bolt kits are not supplied for valve/flanges assembly. The butterfly valves do not require additional ring when connected to circular flanges. Suitable for flanges according to EN 1092-1 - PN 16.

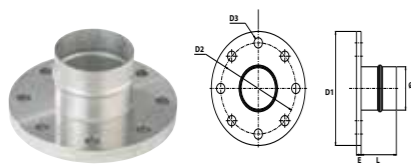
BOLT KIT FOR BUTTERFLY VALVE AND STAINLESS STEEL FLANGE

Transair®	C	L	Number of bolts	Kg
EW06 00 03	M16	90	x 8	1.820

BOLT KITS FOR ASSEMBLY STAINLESS STEEL FLANGE / VALVE / STAINLESS STEEL FLANGE

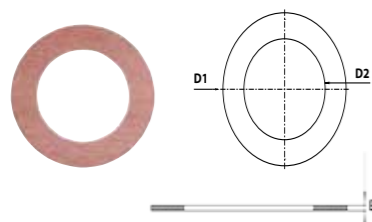
Flange Part Numbers	Transair®	ØD	DN	Bolt Kit Part Number	Quantity of Bolt Kits	Max. Torque N.m
RX30 M4 00	VR02 M4 01	42	32	EW06 00 03	1 kit	50
RX30 M4 00	VR02 M4 02	42	32	EW06 00 03	1 kit	
RX30 M6 00	VR02 M6 01	60	50	EW06 00 03	1 kit	
RX30 M6 00	VR02 M6 02	60	50	EW06 00 03	1 kit	
RX30 L1 00 01	VR02 L1 01	76	80	EW06 00 03	1 kit	
RX30 L1 00 01	VR02 L1 02	76	80	EW06 00 03	1 kit	
RX30 L3 00	VR02 L3 01	100	100	EW06 00 03	1 kit	
RX30 L3 00	VR02 L3 02	100	100	EW06 00 03	1 kit	

STAINLESS STEEL FLANGE (EN-ISO)



Transair®	ØD	DN	ØD1	ØD2	ØD3	E	L	Kg
RX30 M4 00	42	32	140	100	18	10	163	1.250
RX30 M6 00	60	50	165	125	18	10	141	1.700
RX30 L1 00	76	80	185	145	18	10	75	1.940
RX30 L1 00 01	76	80	200	160	18	10	75	2.250
RX30 L3 00	100	100	220	180	18	10	75	2.680

EPDM GASKET FOR STAINLESS STEEL FLANGE



Transair®	DN	For Circular Flange	ØD1	ØD2	E	Kg
EW05 M4 01	32	RX30 M4 00	82	43	2	0.028
EW05 M6 01	50	RX30 M6 00	107	61	2	0.036
EW05 L1 01	65	RX30 L1 00	124	73	3	0.028
EW05 L1 00 01	80	RX30 L1 00 01	142	89	3	0.033
EW05 L3 01	100	RX30 L3 00	162	115	3	0.035

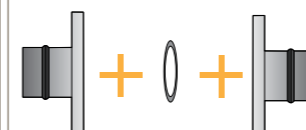
BOLT KIT FOR STAINLESS STEEL FLANGE

Transair®	C	L	Number of Bolts	Kg
EW06 00 01	M16	60	x 8	1.257

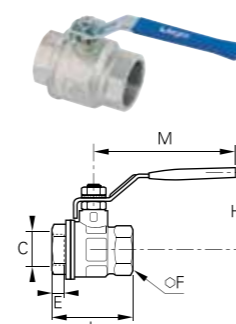
GASKET AND BOLT KITS FOR ASSEMBLY STAINLESS STEEL FLANGE / STAINLESS STEEL FLANGE

Transair®	ØD	DN	Part Number EPDM Gasket	PN Bolt Kit	Qty of Bolt Kit	Max. Tightening Torque N.m
RX30 M4 00	42	32	EW05 M4 01	EW06 00 01	1 kit	200
RX30 M6 00	60	50	EW05 M6 01	EW06 00 01	1 kit	
RX30 L1 00	76	80	EW05 L1 01	EW06 00 01	1 kit	
RX30 L1 00 01	76	80	EW05 L100 01	EW06 00 01	1 kit	
RX30 L3 00	100	100	EW05 L3 01	EW06 00 01	1 kit	

Ø
42
60
76
100



BALL VALVE - DOUBLE FEMALE NICKEL-PLATED



Transair®	C	DN	Max.P (bar)	E	F	H	L	M	Kg
VR03 00 02	G1/4	10	30	11.4	20	43	51.5	98	0.157
VR03 00 03	G3/8	10	30	11.4	20	43	51.5	98	0.141
VR03 00 04	G1/2	15	30	13.5	25	47	55	98	0.204
VR03 00 06	G3/4	20	30	12.5	31	58	57.5	122	0.310
VR03 00 08	G1"	25	30	15	38	60	69.5	122	0.460
VR03 00 10*	G1"1/4	32	30	17	48	77	81.5	153	0.751
VR03 00 12*	G1"1/2	40	30	18	54	83	95	153	1.100
VR03 00 16*	G2"	50	30	22	66	95	113	162	1.644
VR03 00 20*	G2"1/2	65	30	22	85	132	136	255	2.979

*Model with CE marking.

BALL VALVE - MALE / FEMALE - BSP MALE TAPER / FEMALE PARALLEL



Transair®	C1	C	DN	Max.P (bar)	F	H	L	L1	L2	Kg
VR04 00 04	R1/2	G1/2	15	40	25	43	140.5	100	70.0	0.230
VR04 00 06	R3/4	G3/4	20	40	31	50	164.5	120	76.5	0.360
VR04 00 08	R1"	G1"	25	40	40	54	172	120	92.5	0.623
VR04 00 10*	R1"1/4	G1"1/4	32	40	49	73	217.5	158	106	0.965
VR04 00 12*	R1"1/2	G1"1/2	40	40	54	79	220	158	113	1.213
VR04 00 16*	R2"	G2"	50	40	68.5	86	230.5	158	133	1.983
VR04 00 20*	R2"1/2	G2"1/2	65	30	85	132	357.5	255	180.5	3.600

*Model with CE marking.

Ø
42
60
76
100

Ø
42
60
76
100

TOOLS

FIXTURES AND ACCESSORIES

∅
42
60
76
100



PORTABLE TOOL KIT

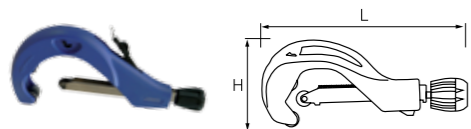
Transair®	Voltage
EW01 00 01	220 V
EW01 00 03	110 V

This case contains : 1 portable tool, 1 14.4 V battery and battery charger.
Additional battery: EW03 00 01

JAW FOR PORTABLE TOOL

Transair®	∅D	E1	E2	L1	L2
EW02 M4 00	42	103	28	154	46
EW02 M6 00	60	103	42	154	46
EW02 L1 00	76	103	52	154	46
EW02 L3 00	100	103	71	154	46

∅
22
↓
100

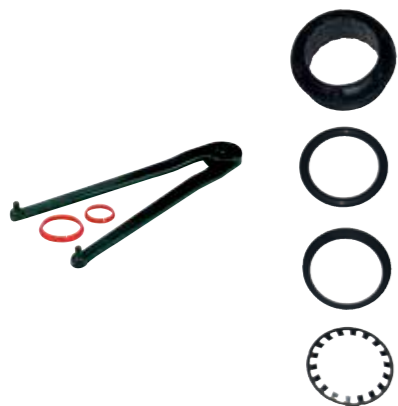


CUTTER FOR STAINLESS STEEL PIPE

Transair®	L	H	Use for Transair® Pipe
6698 03 01	230	98	∅ 22 - 28 - 42 - 60 - 76
EW08 00 03	360	155	∅ 100

Spare rotary cutter blade for Transair® cutter 6698 03 01: EW08 00 99
Spare rotary cutter blade for Transair® cutter EW08 00 03: EW08 00 04

∅
22
28



DISMOUNTING TOOL

EW11 00 01
Contains 1 key, 5 rings for dismantling ∅22 and 5 rings for dismantling ∅28

MAINTENANCE SET

Transair®	Seal	∅D
EW10 N7 01	EPDM	22
EW10 N9 01	EPDM	28
EW10 N7 02	FKM	22
EW10 N9 02	FKM	28

Contains 5 complete fitting accessories

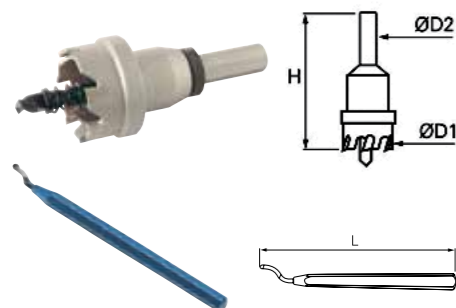
∅
42
60



SET OF TIGHTENING SPANNERS

6698 05 03

∅
42
60
76
100



DRILLING TOOL

Transair®	∅D1	∅D2	H	Kg	Use for Transair® Pipe
EW09 00 22	22	10	69	0.120	∅ 42 - 60
EW09 00 30	30	12	71	0.127	∅ 76 - 100

DEBURRING TOOL

Transair®	L	Kg
6698 04 02	140	0.026



THREADED ROD KIT

Transair®	C
ER99 05 02	M8
ER99 05 03	M10

Contains 10 threaded rods 1 metre length, 50 nuts and 10 threaded connectors.



SCREW TYPE BEAM CLAMP

Transair®	For Screw
ER99 06 02	M8
ER99 06 03	M10

TRANSAIR® STAINLESS STEEL RANGE

INSTALLATION GUIDE



The Golden Rules of Installation 136 to 137

Installation Instructions	136
Best Practices	137

Transair® Stainless Steel Pipe 138 to 141

General	138
Pipe Section	139

Transair® Connectors 142 to 146

General	142
Connection / Disconnection	143
Practical Examples	146
Attachment and Support	147

Transair® Quick Assembly Brackets 148

Fitting a Bracket	148
-------------------	-----

Bending a Transair® Stainless Steel Pipe 149

Z Dimensions 150 - 151



THE GOLDEN RULES OF INSTALLATION

Installation Instructions

General

When maintaining or modifying a Transair® system, the relevant section should be purged prior to the commencement of any work.

Installers should only use Transair® components and accessories, in particular Transair® pipe clips and fixture clamps. The technical properties of the Transair® components, as described in the Transair® catalogue, must be respected.

Commissioning the Installation

Once the Transair® system has been installed and prior to commissioning, the installer should complete all tests, inspections and compliance checks as stated in any contract and according to sound engineering practice and current local regulations.

Transair® Pipe and Hoses

Transair® pipe should be protected from mechanical impact, particularly if exposed to potential collision with fork-lift trucks or when sited in an environment with moving overhead loads. Similarly, rotation of the pipe and pipe supports should be avoided. Transair® pipe must not be welded.

NB: For bending a Transair® stainless steel pipe, please refer to page 149 of this catalogue.

Component Assembly

Transair® components are provided with assembly instructions for their correct use - simply follow the methods and recommendations stated in this document or separate data sheets.

Transair® Installations - Prohibited Situations

- Installation within a solid mass (concrete, foam, etc.), especially underground
- The suspension of any external equipment from Transair® pipe
- The use of Transair® for earthing, or as a support for electrical equipment
- Exposure to chemicals that are incompatible with Transair® components (please contact us for further details).
- Use of components not approved by Transair®

Best Practices

When installing a Transair® system, work should be performed in accordance with good engineering practice.

Bends and bypasses represent sources of pressure drops.

Keep in-line pipe diameter reductions to a minimum.

The diameter of the pipe will influence pressure drop and the operation of point-of-use equipment.

Select the diameter according to the required flow rate and acceptable pressure drop at the point of use.

Never encase the network in a hard solid mass, in order to facilitate maintenance or servicing.

To insulate Transair® industrial water systems thermally, we recommend insulating the Transair® stainless steel pipes.

Position drops and feeds to take-off points as close as possible to the point of use.

TRANSAIR® STAINLESS STEEL PIPE

General

PRESENTATION

Transair® stainless steel pipe is supplied "ready for use". No particular preparation (cutting, deburring, chamfering, etc.) is required. Thanks to the rigidity of Transair® stainless steel pipe, temperature-related expansion / contraction phenomena are reduced to a minimum. The Transair® network retains its straightness, and hence its performance, over time (reduction of pressure drop caused by surface friction). Transair® stainless steel pipe is calibrated and fits perfectly onto all Transair® components. Each connection is automatically secured and sealing is, thus, optimized. The use of Transair® stainless steel pipe minimises corrosion.



STANDARDS	Ø 22 - Ø 28	Ø 42 - Ø 60	Ø 76 - Ø 100
Manufacturing Standards	EN 10217-7	EN 10217-7	EN 10217-7
Grade	EN 10088-2, 1.4404 / AISI 316 L	1.4301 / AISI 304	1.4301 / AISI 304
Welding Standards	DIN 17 457, EN 10217-7	DIN 17 457, EN 10217-7	DIN 17 457, EN 10217-7
Tolerances	DVGW - W541	EN 1127 D4 / T3	EN 1127 D4 / T3

VOLUME AND MASS		Value for 1 metre of pipe		
Ø ext (mm)	Ø int (mm)	Volume (l)	Pipe Mass (kg)	Mass of the Network Full of Water(kg)
22.0	19.6	0.30	0.627	0.929
28.0	25.6	0.51	0.808	1.323
42.3	39.1	1.20	1.616	2.817
60.3	57.1	2.56	2.331	4.892
76.1	72.9	4.17	2.958	7.132
101.6	97.6	7.48	4.944	12.425

Pipe Section

Ø 22 Ø 28				
TOOLS				
	PIPE-CUTTER 6698 03 01	CHAMFERING TOOL 6698 04 01	DEBURRING TOOL 6698 04 02	MARKER PEN
PROCEDURE				
	<p>1 - Cutting the pipe:</p> <ul style="list-style-type: none"> - place the pipe into the pipe cutter - position the blade onto the pipe - rotate the pipe cutter around the pipe while gently tightening the wheel. 		<p>2 - Carefully chamfer the outer edges</p> <p>3 - Also deburr the interior end of the pipe</p> <p>4 - Mark the connection indicator.</p> <p>Ø22: L = 30.4 Ø28: L = 41.5</p>	

TRANSAIR® STAINLESS STEEL PIPE

Pipe Section

Ø 42 - Ø 60
Ø 76 - Ø 100

TOOLS



PIPE-CUTTER



FILE



DEBURRING TOOL

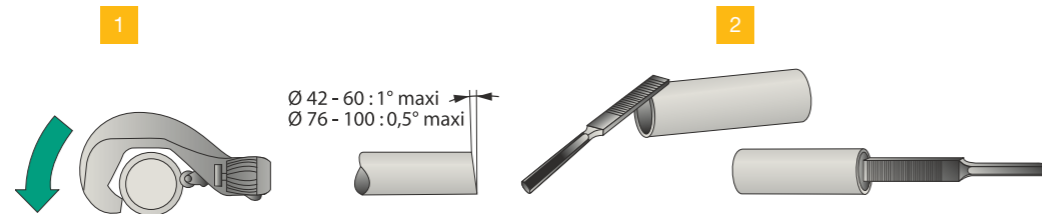


PORTABLE TOOL KIT REF.
EW01 00 01 (220V) OR
EW01 00 03 (110V)



PIPE FORMING JAW SET REF.
EW02 M4 00 (Ø 42)
EW02 M6 00 (Ø 60)
EW02 L1 00 (Ø 76)
EW02 L3 00 (Ø 100)

1 - PIPE SECTION



- 1 - Cutting the pipe:
- place the pipe into the pipe cutter
 - position the blade onto the pipe
 - rotate the pipe cutter around the pipe while gently tightening the wheel

- 2 - Carefully chamfer and deburr the end of the pipe with a file.

PROCEDURE

2 - PREPARATION OF THE PORTABLE TOOL KIT



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

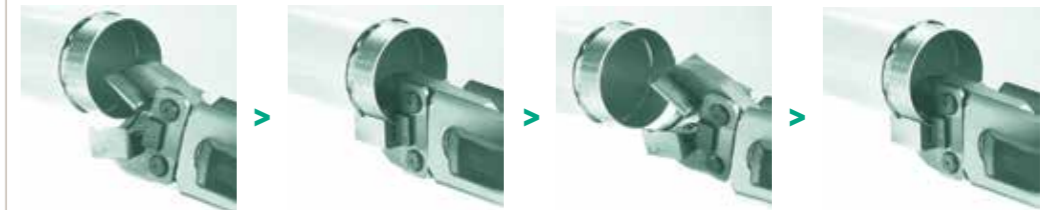


Place the jaws in the housing.



Lock in position by closing the retaining pin.

3 - HOW TO CREATE THE LUGS



Manually open the jaws of the clamp and insert the stainless steel 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

PROCEDURE

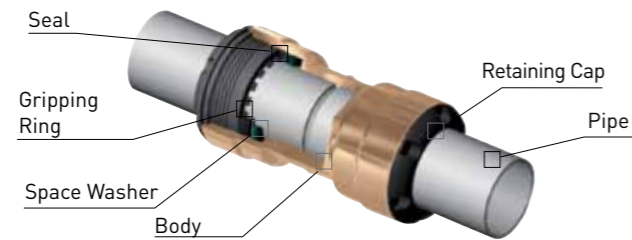
	Ø 42	Ø 60	Ø 76	Ø 100
Min. Number of Lugs	4	4	6	7

IMPORTANT: DO NOT OVERLAP THE LUGS!

General

Ø 22
Ø 28

INSTANT CONNECTION BY MEANS OF A GRIPPING RING



Pipe-to-pipe and stud connectors in Ø22 and Ø28 can be immediately connected to Transair® stainless steel pipe – 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.

Ø 42
Ø 60

DOUBLE-CLAMP QUICK-FIT CONNECTION

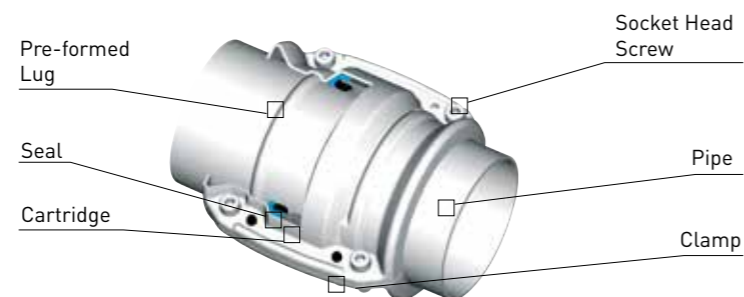


Pipe-to-pipe and stud connectors in Ø42 and Ø60 can be quickly connected to Transair® stainless steel pipe by means of a double clamp ring. This

secures the connection between the nut and the pipe – tightening of the nuts secures the final assembly.

Ø 76
Ø 100

CLAMP QUICK-FIT CONNECTION



Pipe-to-pipe and stud connectors in Ø76 and Ø100 can be quickly connected to Transair® stainless steel pipe.

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

Connection / Disconnection

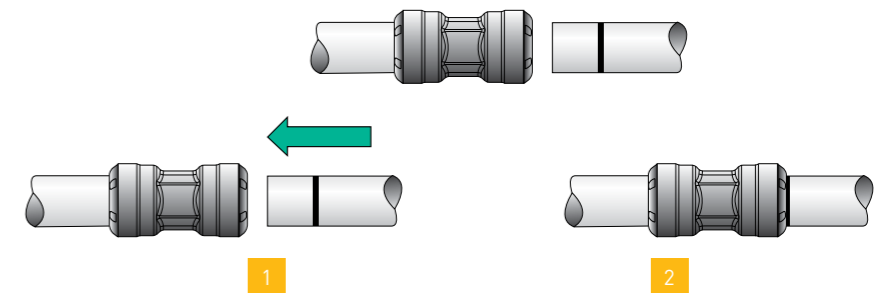
Ø 22-28

TOOLS

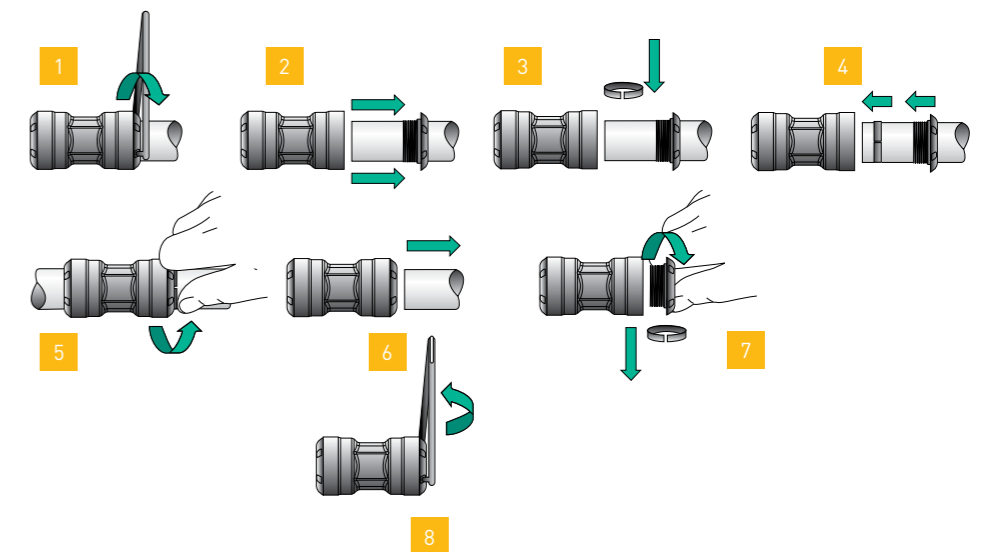


DISMANTLING TOOL
EW11 00 01

CONNECTION



DISCONNECTION

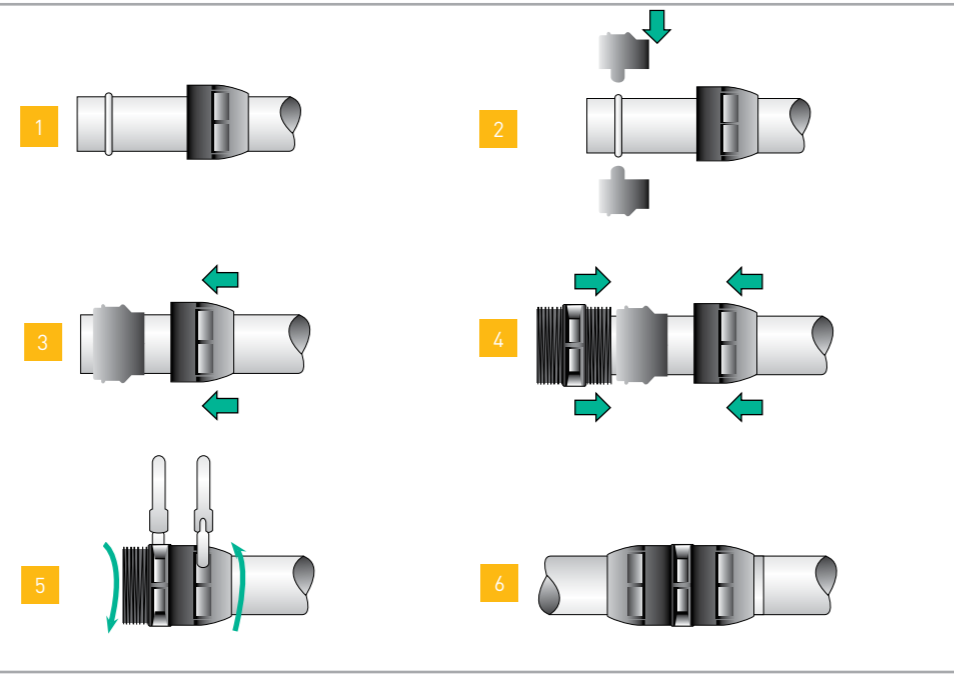


PROCEDURE

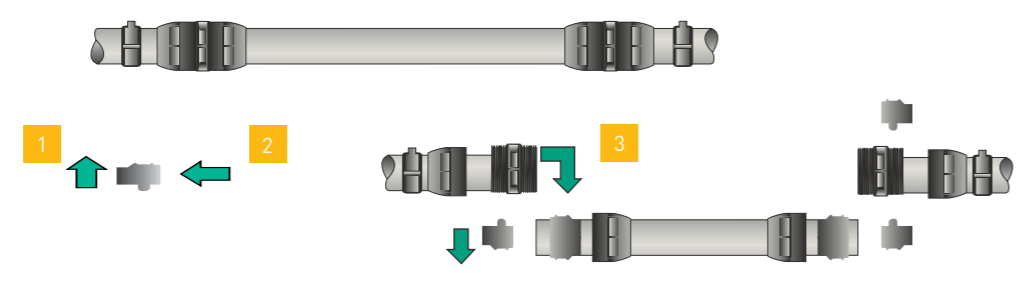
TRANSAIR® CONNECTORS

Ø 42
Ø 60

CONNECTION / DISCONNECTION

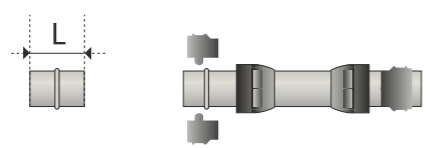


LATERAL DISMOUNTING



REPLACE 1 CONNECTOR BY A TEE

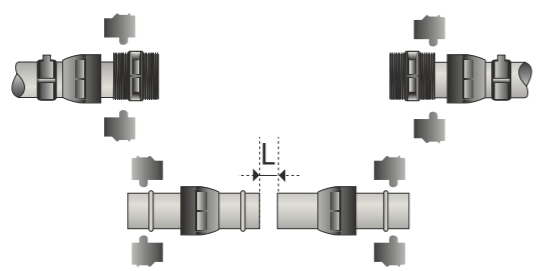
Ø	L (mm)
42	105
60	123



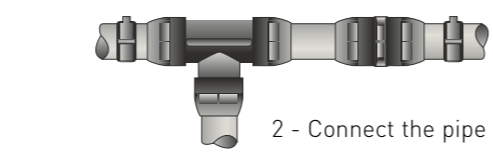
1 - Cut the pipe and create the lugs (cf pages 141)

ADD 1 TEE

Ø	L (mm)
42	110
60	128



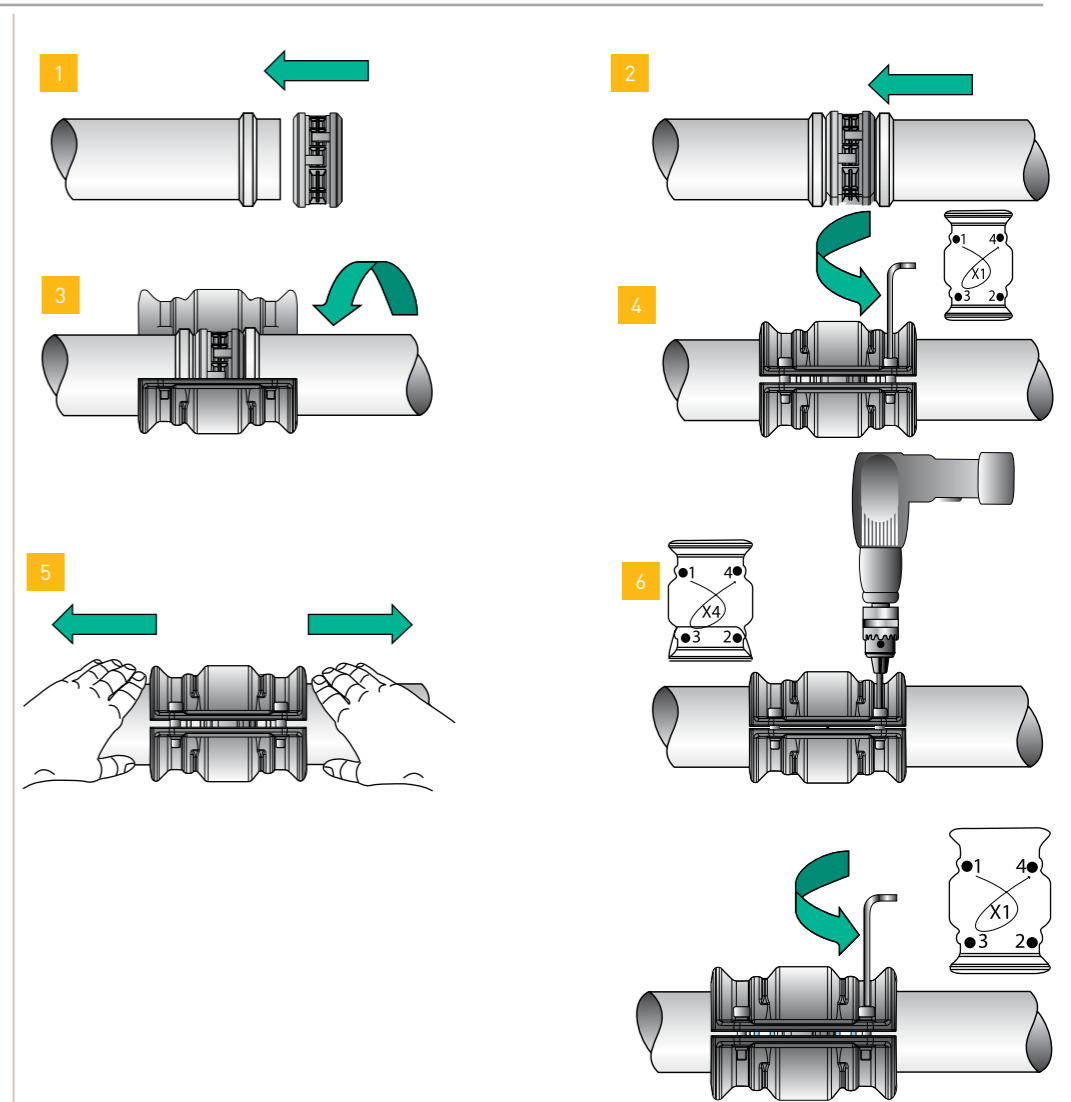
1 - Cut the pipe and create the lugs (cf pages 141)



2 - Connect the pipe

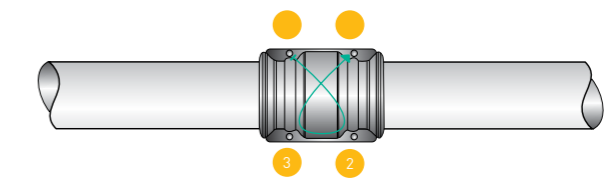
Connection / Disconnection

Ø 76
Ø 100



- 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 a 6mm Allen key.
- 5 - Pull the pipes fully back towards the outside of the clamp.
- 6 - Tighten the clamp screws as follows:
 - mini tightening torque: 10 N.m
 - maxi tightening torque: make the 2 clamps touch together
- 7 - For effective clamp sealing, screw tightening should be performed on alternate sides of the clamp as shown above.

For effective clamp sealing, screw tightening should be performed on alternate sides of the clamp as shown below:



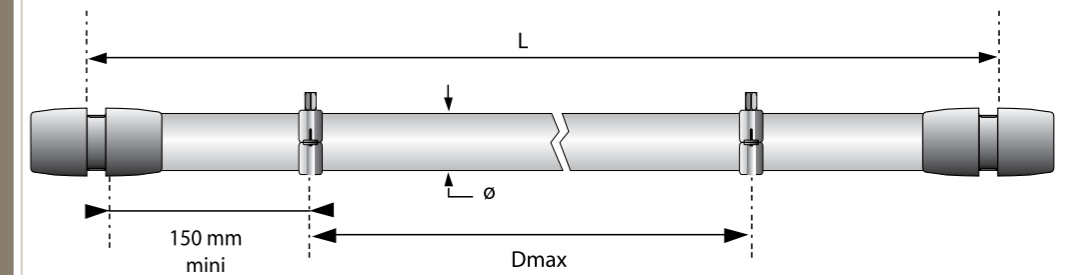
To disconnect, perform the same operations in reverse order.

Practical Examples

VARIOUS Ø76 AND Ø100 CONFIGURATIONS	
CHANGING DIRECTION WITH A 90° ELBOW	
CHANGING DIRECTION WITH A TEE PIECE	
CONNECTING AN END CAP	
CONNECTING A CIRCULAR FLANGE AND A CONNECTOR	
REDUCTION	
CONNECTING A BUTTERFLY VALVE	

FIXTURES AND ACCESSORIES

Ø 22
↓
Ø 100



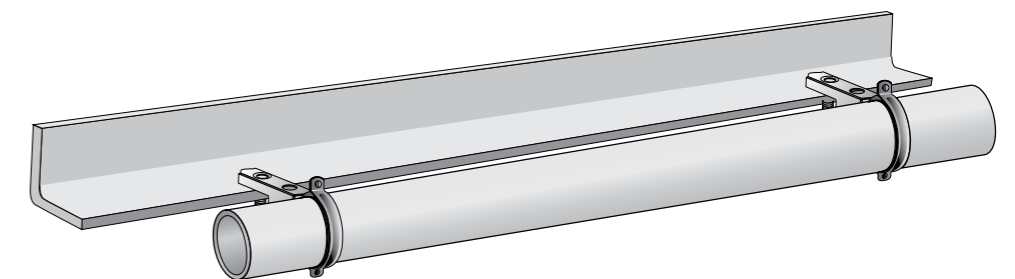
L = 3 M

Ø	Dmax (m)
22	2.5
28	2.5
42	2.5
60	2.5
76	2.5
100	2.5

L = 6 M


Ø	Dmax (m)
22	3
28	3
42	4
60	4
76	5
100	5

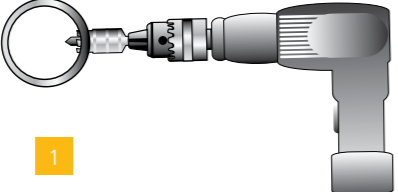
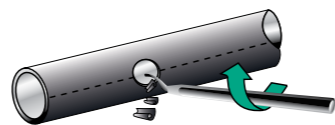
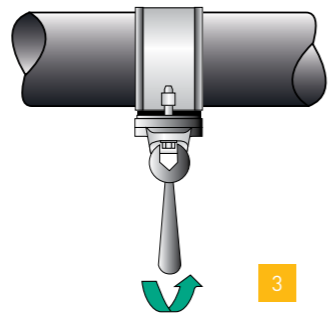
SCREW TYPE BEAM CLAMP



Position the clamps ref. ER99 onto the RSJ or beam in accordance with the minimum recommended number of attachments per length of pipe and the required distance between attachments, according to the diameter of the pipe.

Fitting a Bracket

ON Ø 42 Ø 60 Ø 76 Ø 100 PIPE			
TOOLS REQUIRED	DRILLING TOOL FOR TRANSAIR® STAINLESS STEEL PIPE EW09 00 22 EW09 00 30	DEBURRING TOOL FOR TRANSAIR® STAINLESS STEEL PIPE 6698 04 02	DRILL

PROCEDURE	 <p>1</p>	 <p>2</p>
	 <p>3</p>	

1 - Drill the Transair® stainless steel pipe at the desired position using following drilling tools:

- Ø42 - Ø60: drilling tool EW09 00 22
- Ø76 - Ø100: drilling tool EW09 00 30

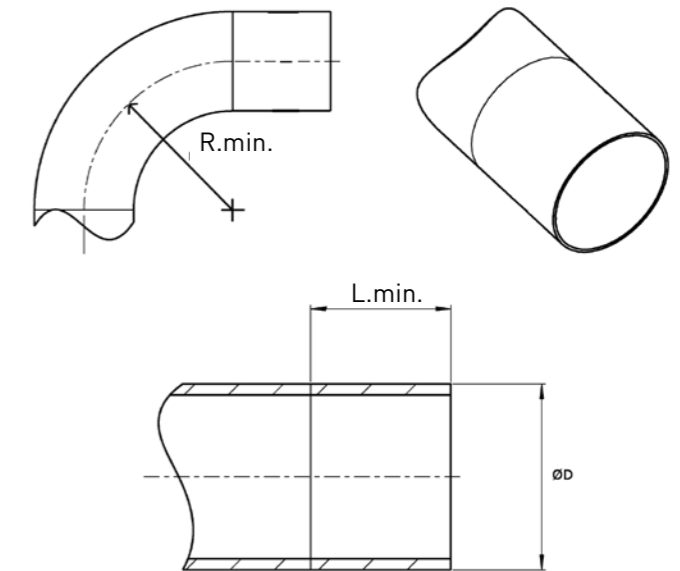
2 - Carefully deburr the pipe.

3 - Position the bracket and tighten the 2 screws.

All Diameters

Thanks to their technical characteristics, Transair® stainless steel pipe can be bent according to the following specifications:

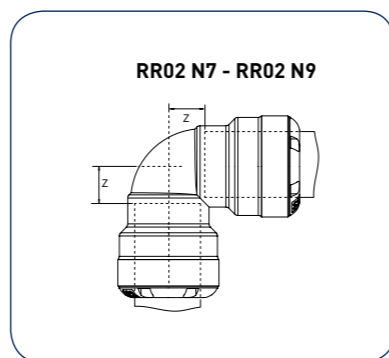
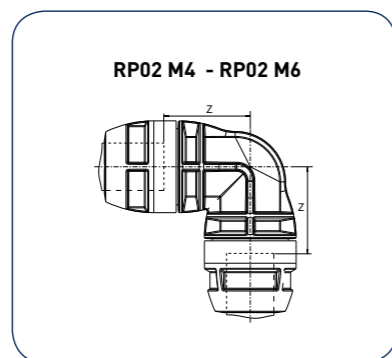
Transair®	R min. (mm)	L min. (mm)
Ø 22	44	125
Ø 28	56	125
Ø 42	84	125
Ø 60	93	125
Ø 76	114	125
Ø 100	152	125



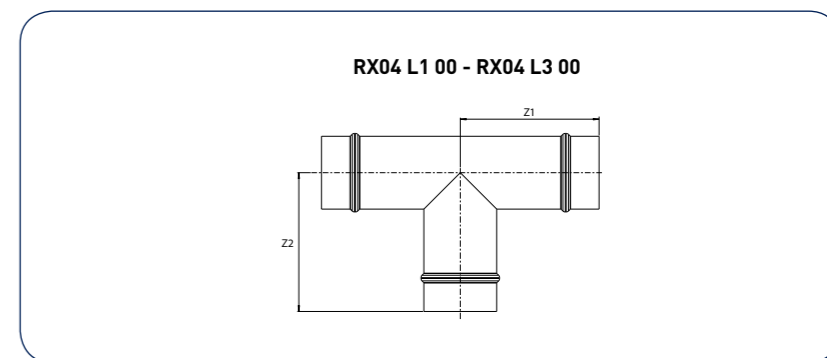
PRACTICAL INFORMATION

Z Dimensions

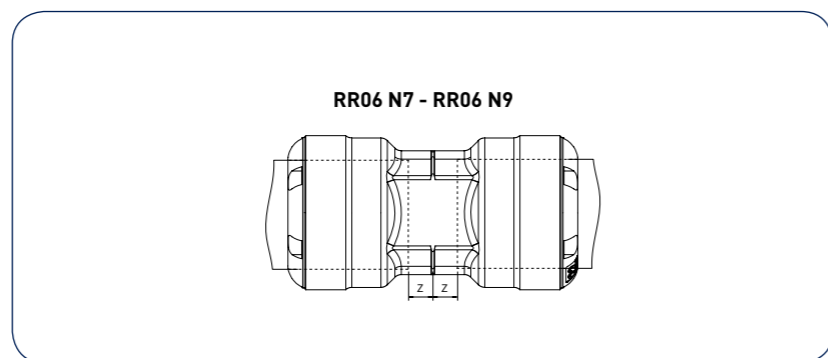
RP02/RR02	Z (mm)
Ø 22	13
Ø 28	15
Ø 42	55
Ø 60	64



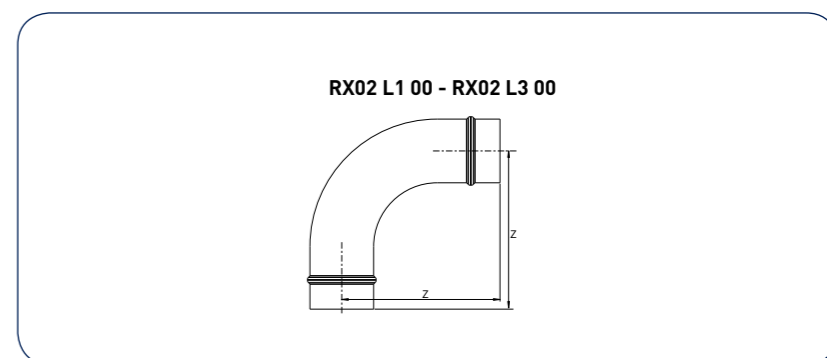
RX04	Z1 (mm)	Z2 (mm)
Ø 76	145	145
Ø 76 -> Ø 42	145	183
Ø 76 -> Ø 60	145	183
Ø 100	155	135
Ø 100 -> Ø 42	155	135
Ø 100 -> Ø 60	155	195
Ø 100 -> Ø 76	155	195



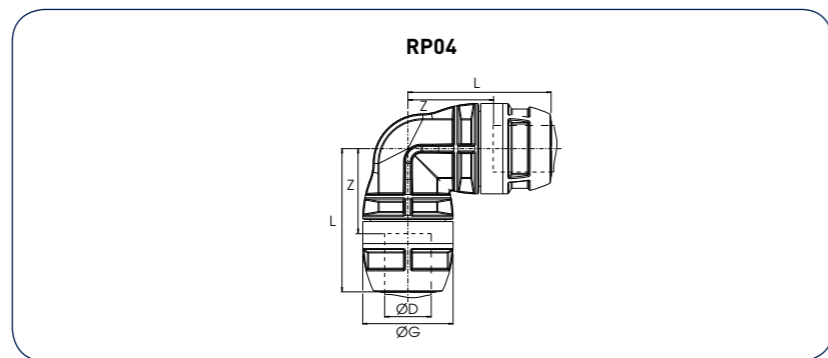
RR06	Z (mm)
Ø 22	1.2
Ø 28	1.2
Ø 22 -> Ø 28	1.6
Ø 42	2.6
Ø 60	2.6



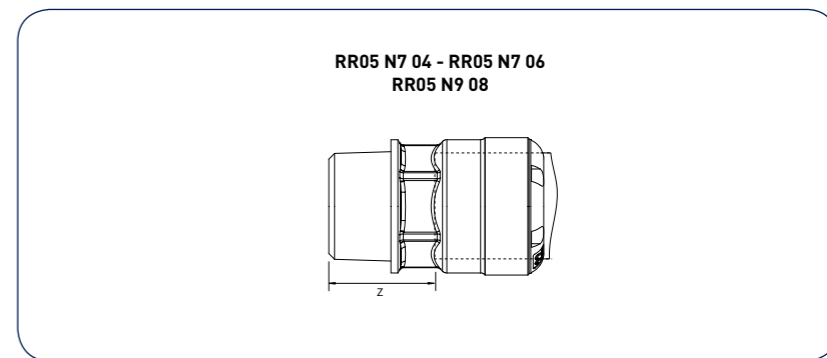
RX02	Z (mm)
Ø 76	189
Ø 100	227



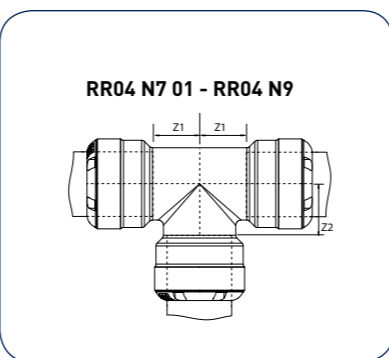
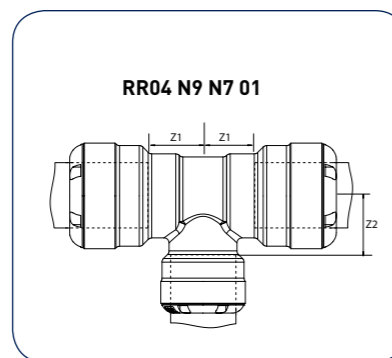
RP04	Z1 (mm)	Z2 (mm)
Ø 42	55	55
Ø 60	64	64



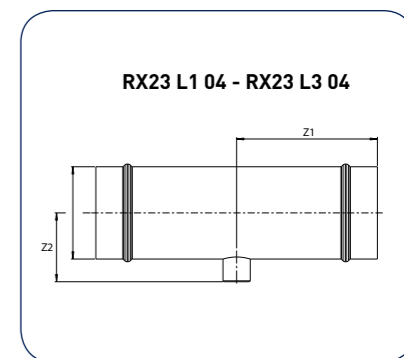
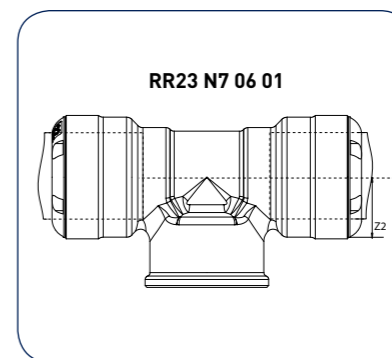
RR05	Z (mm)
RR05 N7 04	21
RR05 N7 06	22
RR05 N9 08	22



RR04	Z1 (mm)	Z2 (mm)
Ø 22	11.7	11
Ø 28	15	15
Ø 28 -> Ø 22	12	16



RR23/RX23	Z1 (mm)	Z2 (mm)
Ø 22	12	14
Ø 76	145	63
Ø 100	155	76



TRANSAIR®: STAINLESS STEEL DROPS

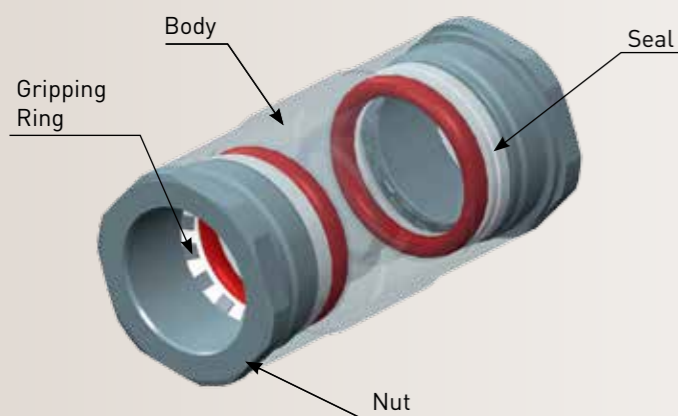
- To meet the requirements of compressed air and vacuum applications in **harsh environments** (food and beverage, pharmaceutical or laboratories), Transair® now proposes a complete range of **Ø22 mm 316L stainless steel drops**.
- These **modular drops with instant connection technology** are very easy to clean and are resistant to **aggressive** chemical agents (list of chemical compatibility available upon request).
- For food and beverage applications, these drops can be used in **food** or **splash zones** as they are compatible with permanent food contact (316L stainless steel complies with **FDA - CFR21 requirements** for food contact applications).

TECHNICAL SPECIFICATIONS

- Pipe external diameter: 22 mm
- Pipe internal diameter: 19.6 mm
- Full bore design
- Push-in technology
- Material (fitting and pipe): full stainless steel 316L
- Fittings individually packed in a plastic bag
- Sealing: FKM
- Pressure: 0 to 10 bar
- Temperature: - 20°C to + 120°C
- Vacuum: 10 mbar (absolute value)

ADVANTAGES AND BENEFITS

- Fully dismantlable and reusable
- Instant connection and disconnection
- Modular and flexible networks
- Optimisation of cleaning and maintenance operations
- Large chemical compatibility for applications in aggressive chemical environments (See Chemical Compatibility Chart page 115)
- The 3-port wall bracket facilitates the connection to the process.



Example of an application in the Food & Beverage Industry: the user needed a full stainless steel 22mm drop in a wash down zone.



Instructions for Assembly and Disassembly of a Stainless Steel Drop



Assembly: simply push the pipe into the fitting.



Disassembly : 1. Manually unscrew the nut and slide the nut along the pipe.



Disassembly : 2. Put the red dismounting ring on the pipe and re-screw the nut on the fitting.



Disassembly : 3. Pull the pipe from the fitting.



Disassembly : 4. Manually unscrew the nut and remove the red dismounting ring.



Disassembly : 5. Re-screw the nut on the fitting without the red ring; it is ready for assembly.

These drops can be connected to quick assembly brackets of Transair® aluminium range (pages 40/41 in this catalogue) and to quick assembly brackets of Transair® stainless steel range (page 129).

	Transair® Part Numbers	Description
	TF03 N7 00 TF06 N7 00	Ø22 Pipe - Stainless Steel 316L - Length: 3 m Ø22 Pipe - Stainless Steel 316L - Length: 6 m
	RF06 N7 02	Pipe-Pipe Connector, Ø22, Stainless Steel 316L FKM
	RF02 N7 00	90° Elbow, Stainless Steel 316L, Ø22 (Bended Pipe)
	RF02 N7 02	90° Elbow, Stainless Steel 316L, Ø22 FKM
	RF04 06 00	Threaded Equal Tee G3/4", Stainless Steel 316L
	RF08 N7 06 02	Male Stud Fitting Ø22, G3/4" FKM, Stainless Steel 316L
	RF35 06 04	G3/4" Wall Bracket > 3 Port G1/2", Stainless Steel 316L (supplied without plug)
	EF25 00 04 02	Stainless Steel Plug, FKM Sealing, for Wall Bracket RF35 06 04
	VF04 00 06	Male Valve R3/4" /Female G3/4", Stainless Steel 316L
	EX01 N7 00	Fixing Clip, Ø22, Stainless Steel 316L
	EW11 N7 00	Red Dismounting Ring, Polymer, Ø22

PARKER PRODUCTS FROM THE TECHNICAL ROOM



Coalescing and Activated Carbon Filters for Air and Compressed Gas

Flow rate up to 31.250 m³/h. Operating pressure up to 350 bar.
Designed for air and other compressed gases (natural gas, hydrogen, oxygen, nitrogen, argon, helium, etc.). Deliverables in accordance with the main international bodies (PED, ASME VIII div. 1 and 2, Ghost, China Stamp, LRofS, DNV, GL, ABS, etc.) including directives ISO12500 and ISO8573.1.



Refrigeration Dryers

- Flow up to 26 400 m³/h.
- Operating pressure up to 40 bar.
- Pressure dew point +3 °C.
- Energy-saving system SMART SAVE.



Transair® System in Aluminium

Transair®: a unique, truly flexible and upgradeable aluminium pipe system. Creating primary and secondary networks of the main industrial gases has never been quicker. Compatible fluids: air, nitrogen, vacuum and argon, etc. Diameters available: 16.5, 25, 40, 50, 63, 76, 100 and 168 mm. Tube colours: blue, grey and green. Fittings: BSP and NPT.



Adsorption Dryers for Compressed Gases and Air

- Flow rate up to 14.500 m³/h. Operating pressure up to 350 bar. Pressure dew point to -70°C. Designed for air and other compressed gases.
- Patented vacuum regeneration system.
- Compliant with the requirements of main international standards and bodies (PED, ASME VIII div. 1 and 2, Ghost, China Stamp, LRofS, DNV, GL, ABS, etc.).



Membrane Dryers

- Designed for point of use applications where compact size is a determining factor.
- Flow rate of air up to 1.000 m³/h.
- Operating pressure up to 10 bar.
- Pressure dew point to -40°C.
- Operates without electrical supply.



Breathing Air Systems

- Flow rate up to 850 m³/h.
- Operating pressure up to 16 bar.
- Compliant with ISO 12021 and European Pharmacopoeia standards.



Heat Exchangers with Air and Liquid Cooling Systems

- Flow rate up to 12.000 m³/h.
- Designed for applications from 0 to 40 bar.
- Available in stainless steel and other materials resistant to chemical agents.
- Special ranges for biogas and natural gas.
- Bespoke installations according to requirements.

TO THE HEART OF PRODUCTION

Chillers for Industrial Cooling

- Refrigerating power up to 757 kW.
- Special external and internal surface treatments for aggressive gases and environments.
- Dedicated equipment for laser applications and special gases (biogas).
- Bespoke installations according to requirements.



Condensate Drains

- For compressed air lines up to 66.000 m³/h.
- Operating pressure up to 50 bar. Designed for corrosive gases and air.
- Float, time delay and electronic level control versions.



Transair® System in Stainless Steel

Transair®: a flexible and upgradeable stainless steel pipe system for creating primary and secondary industrial water networks. Compatible fluids: industrial water, oils, etc. Main application: cooling (moulds, tools, welding, etc.) Diameters available: 22, 28, 42, 60, 76 and 100 mm. Fittings: BSP and NPT.



Water-Oil Condensate Separators

Available in 7 models for the treatment of condensates generated by compressed air for flow rates up to 3.600 m³/h.



Nitrogen Generators for Industrial and Laboratory Applications.

- To generate ultra-pure nitrogen from compressed air.
- Flow rate of nitrogen produced up to 150 m³/h.
- Modular assembly for larger nitrogen flow rates.
- Degree of purity: from 95% to 99.999%.
- Maximum pressure of incoming air: 15.0 bar.
- Maximum pressure of outgoing nitrogen: 13.5 bar.
- Compliant with EIGA standard relating to the food and drink industry



Nitrogen Membrane Generators

- To generate ultra-pure nitrogen from compressed air.
- Flow rate of nitrogen produced up to 300 m³/h.
- Modular assembly for larger nitrogen flow rates.
- Degree of purity: from 95% to 99.5%.
- Maximum pressure of outgoing nitrogen: 13 bar.
- Reduced compressed air consumption per m³ of nitrogen produced.
- Designed for point-of-use applications.

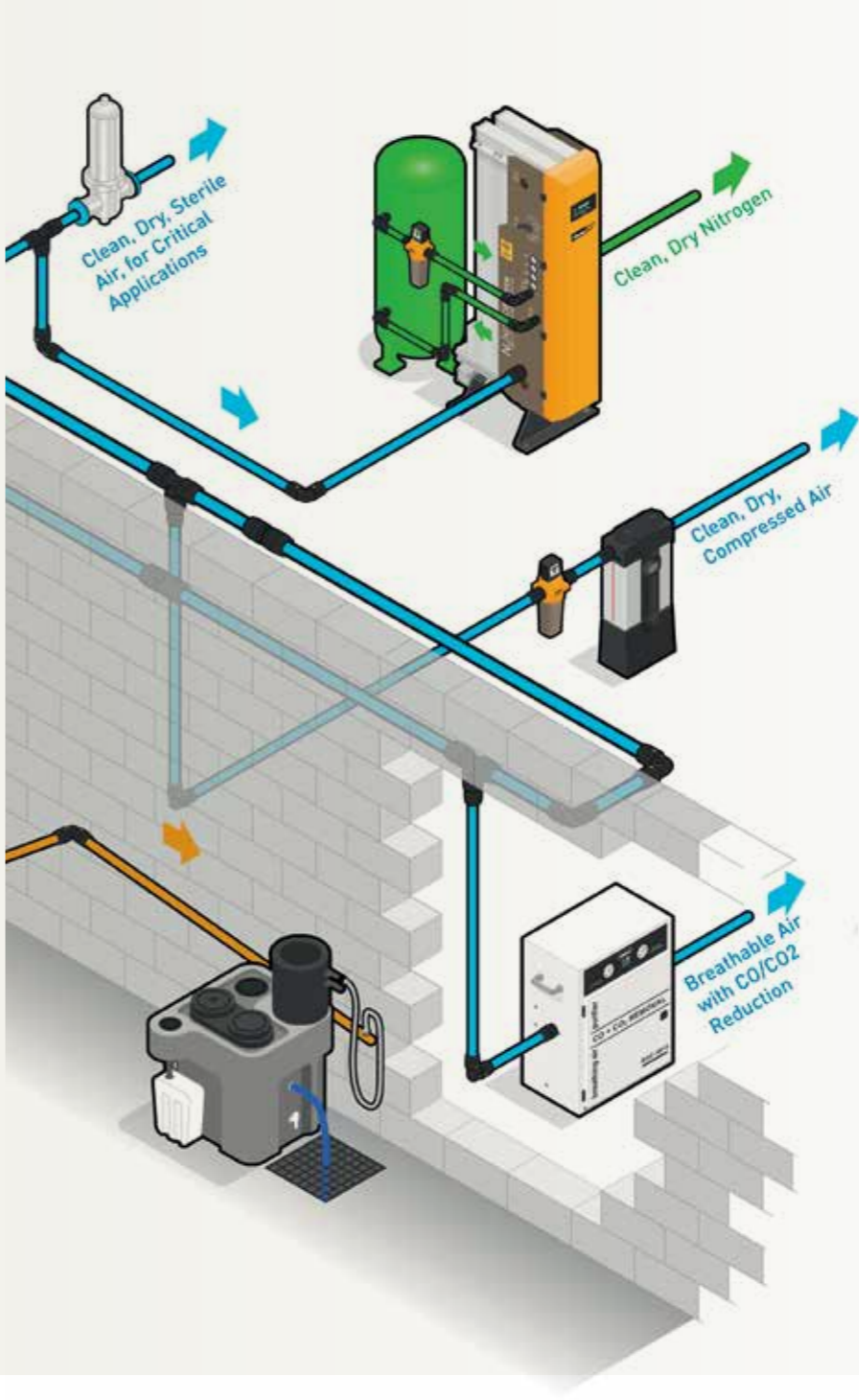
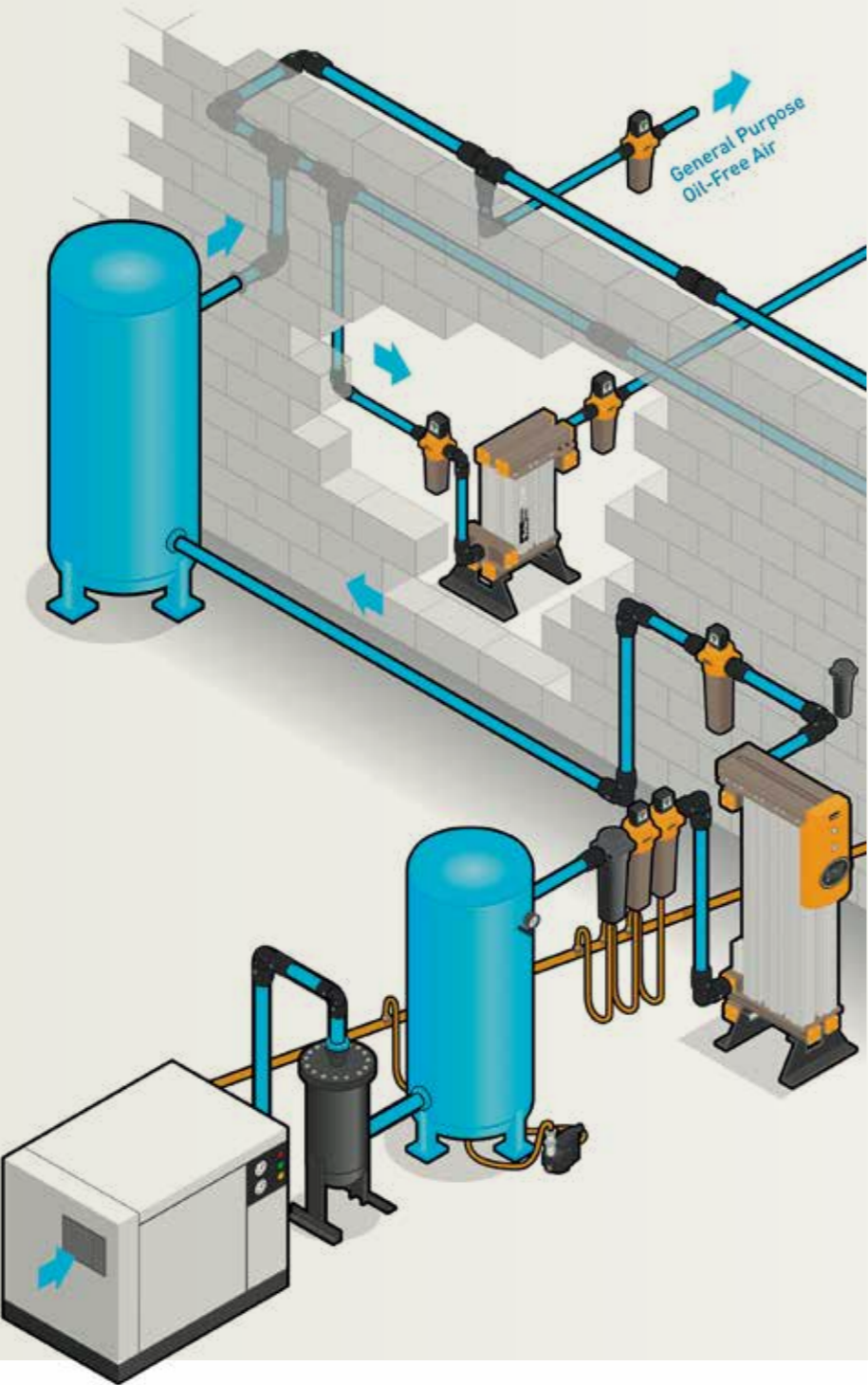


Added Value Services

- Contaminant analysis.
- Particle counting
- Humidity testing.
- Breathing air analysis.
- Leak testing.
- Service packages.
- Factory trained technicians.



The Parker Solution Couples Excellent Purity of Conveyed Air and Gases with High Flow and Lower Operating Costs



INDEX

TA06 L8 04	27
TA06 L8 06	27
TF03 N7 00	122, 153
TF03 N9 00	122
TF06 N7 00	122, 153
TF06 N9 00	122
TX03 L1 00	122
TX03 L3 00	122
TX03 M4 00	122
TX03 M6 00	122
TX06 L1 00	122
TX06 L3 00	122
TX06 M4 00	122
TX06 M6 00	122
VF04 00 06	153
VR01 L1 00	38
VR01 L3 00	38
VR01 L8 00	38
VR02 63 00	38
VR02 L1 00	38
VR02 L1 01	130
VR02 L1 02	130
VR02 L3 00	38
VR02 L3 01	130
VR02 L3 02	130
VR02 L8 00	38
VR02 M4 01	130
VR02 M4 02	130
VR02 M6 01	130
VR02 M6 02	130
VR03 00 02	39, 131
VR03 00 03	39, 131
VR03 00 04	39, 131
VR03 00 06	39, 131
VR03 00 08	39, 131
VR03 00 10	39, 131
VR03 00 12	39, 131
VR03 00 16	39, 131
VR03 00 20	39, 131
VR04 00 04	39, 131
VR04 00 06	39, 131
VR04 00 08	39, 131
VR04 00 10	39, 131
VR04 00 12	39, 131
VR04 00 16	39, 131
VR04 00 20	39, 131

Parker Transair has a policy of continuous product development and therefore reserves the right to modify any products shown in this catalogue, without notification. All dimensions, drawings and pictures are indicative.

Parker Worldwide

Europe, Middle East, Africa

AE – United Arab Emirates,
Dubai

Tel: +971 4 8127100
parker.me@parker.com

AT – Austria, Wiener Neustadt

Tel: +43 (0)2622 23501-0
parker.austria@parker.com

AT – Eastern Europe, Wiener
Neustadt

Tel: +43 (0)2622 23501 900
parker.easteurope@parker.com

AZ – Azerbaijan, Baku

Tel: +994 50 2233 458
parker.azerbaijan@parker.com

BE/LU – Belgium, Nivelles

Tel: +32 (0)67 280 900
parker.belgium@parker.com

BG – Bulgaria, Sofia

Tel: +359 2 980 1344
parker.bulgaria@parker.com

BY – Belarus, Minsk

Tel: +48 (0)22 573 24 00
parker.poland@parker.com

CH – Switzerland, Etoy

Tel: +41 (0)21 821 87 00
parker.switzerland@parker.com

CZ – Czech Republic, Klecany

Tel: +420 284 083 111
parker.czechrepublic@parker.com

DE – Germany, Kaarst

Tel: +49 (0)2131 4016 0
parker.germany@parker.com

DK – Denmark, Ballerup

Tel: +45 43 56 04 00
parker.denmark@parker.com

ES – Spain, Madrid

Tel: +34 902 330 001
parker.spain@parker.com

FI – Finland, Vantaa

Tel: +358 (0)20 753 2500
parker.finland@parker.com

FR – France, Contamine s/Arve

Tel: +33 (0)4 50 25 80 25
parker.france@parker.com

GR – Greece, Athens

Tel: +30 210 933 6450
parker.greece@parker.com

HU – Hungary, Budaörs

Tel: +36 23 885 470
parker.hungary@parker.com

IE – Ireland, Dublin

Tel: +353 (0)1 466 6370
parker.ireland@parker.com

IT – Italy, Corsico (MI)

Tel: +39 02 45 19 21
parker.italy@parker.com

KZ – Kazakhstan, Almaty

Tel: +7 7273 561 000
parker.easteurope@parker.com

NL – The Netherlands, Oldenzaal

Tel: +31 (0)541 585 000
parker.nl@parker.com

NO – Norway, Asker

Tel: +47 66 75 34 00
parker.norway@parker.com

PL – Poland, Warsaw

Tel: +48 (0)22 573 24 00
parker.poland@parker.com

PT – Portugal, Leca da Palmeira

Tel: +351 22 999 7360
parker.portugal@parker.com

RO – Romania, Bucharest

Tel: +40 21 252 1382
parker.romania@parker.com

RU – Russia, Moscow

Tel: +7 495 645-2156
parker.russia@parker.com

SE – Sweden, Spånga

Tel: +46 (0)8 59 79 50 00
parker.sweden@parker.com

SK – Slovakia, Banská Bystrica

Tel: +421 484 162 252
parker.slovakia@parker.com

SL – Slovenia, Novo Mesto

Tel: +386 7 337 6650
parker.slovenia@parker.com

TR – Turkey, Istanbul

Tel: +90 216 4997081
parker.turkey@parker.com

UA – Ukraine, Kiev

Tel: +48 (0)22 573 24 00
parker.poland@parker.com

UK – United Kingdom, Warwick

Tel: +44 (0)1926 317 878
parker.uk@parker.com

ZA – South Africa, Kempton Park

Tel: +27 (0)11 961 0700
parker.southafrica@parker.com

North America

CA – Canada, Milton, Ontario

Tel: +1 905 693 3000

US – USA, Cleveland

Tel: +1 216 896 3000

Asia Pacific

AU – Australia, Castle Hill

Tel: +61 (0)2-9634 7777

CN – China, Shanghai

Tel: +86 21 2899 5000

HK – Hong Kong

Tel: +852 2428 8008

IN – Inde, Gurgaon

Tél: +91 124 459 0600
legris.india@parker.com

JP – Japan, Tokyo

Tel: +81 (0)3 6408 3901

KR – South Korea, Seoul

Tel: +82 2 559 0400

MY – Malaysia, Shah Alam

Tel: +60 3 7849 0800

NZ – New Zealand, Mt Wellington

Tel: +64 9 574 1744

SG – Singapore

Tel: +65 6887 6300

TH – Thailand, Bangkok

Tel: +662 186 7000

TW – Taiwan, Taipei

Tel: +886 2 2298 8987

South America

AR – Argentina, Buenos Aires

Tel: +54 3327 44 4129

BR – Brazil, Sao Jose dos Campos

Tel: +55 800 727 5374

CL – Chile, Santiago

Tel: +56 2 623 1216

MX – Mexico, Toluca

Tel: +52 72 2275 4200

European Product Information Centre

Free phone: 00 800 27 27 5374

(from AT, BE, CH, CZ, DE, DK, EE, ES, FI,
FR, IE, IL, IS, IT, LU, MT, NL, NO, PL, PT, RU,
SE, SK, UK, ZA)

Fluid System Connectors Division Europe

Transair Business Unit

Parc Alcyone - Building D

1, rue André et Yvonne Meynier

CS 46911 - 35069 Rennes - France

Tel: +33 (0)2 99 25 55 00

Fax: +33 (0)2 99 25 56 47

transair@parker.com - www.parkertransair.com