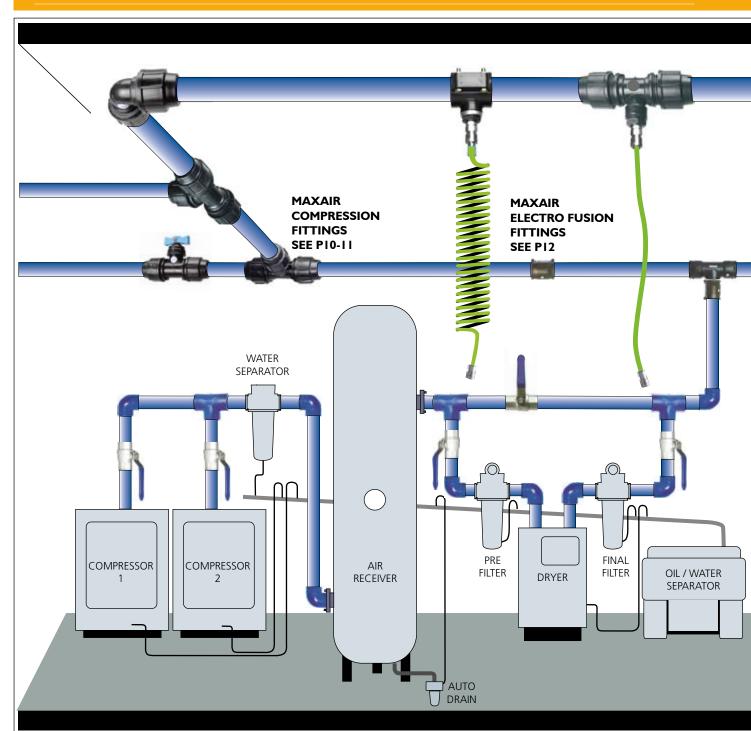


2009

Including extensive Data, Information and Instructions. Everything you need for a modern, efficient Compressed Air Pipe System.



## **SCHEMATIC OF A TYPICAL AIR LINE SYSTEM**



### **MAXAIR AIR PIPE SYSTEMS**

This new technical and product manual is designed to give you access to a superior system for your compressed air reticulation requirements.

Maxair utilises PE100, a product of advanced materials technology which outperforms other pipes for pressure, flow, corrosion resistance, compatibility with compressor oils & ease of installation and alteration. Complementing this outstanding development in clean robust pipework is a comprehensive range of quality components to help you select the best solution for your individual requirements. This range is a result of research and experience within a broad cross section of industrial applications. This manual includes technical

data and installation guidelines to assist you to design an air supply system that is precisely tailored to your requirements.

Compressed gasses have inherent dangers, so an uncompromising standard of quality, conservative pressure ratings and the highest safety factors of any polymer piping system as set out in Australian and New Zealand Standards is now available.

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MAXAIR SOCKET FUSION FITTINGS SEE P8-9	
FILTER REGULATOR LUBRICATOR	AIRHOSE REEL

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### FEATURES & BENEFITS OF MAXAIR AIR PIPE SYSTEMS

- 50 YEAR WARRANTY
- SIMPLE & FAST TO INSTALL
- EASY TO ALTER OR ADAPT
- LIGHTWEIGHT
- STRONG, ROBUST, SAFE
- LOW FRICTION, SMOOTH BORE
- BROAD CHEMICAL RESISTANCE
- NO CORROSION
- NO METALLIC CONTAMINATION
- WIDE RANGE OF PIPE SIZES
- FOOD GRADE MATERIALS
- SUITABLE FOR BREATHING AIR
- DISTINCTIVE BLUE COLOUR
- GOOD THERMAL PROPERTIES
- SUITABLE UNDERGROUND
- UNDERPRESSURE CONNECTION FITTINGS





Meets Australian and NZ Standards AS/NZS4130 & AS/NZS4131 and made in Australia under strict ISO 9002 Certified Quality Systems. Maxair PE100 is the highest grade of PE in pipe standard AS/NZS4131. Blue colour to assist in identification and colour coding without painting. (Australian and New Zealand Standards require marking/colour coding). **GUARANTEE.** 

Maxair PE100 pipe is manufactured in accordance with AS/NZS4130 and ASNZS4131 and is accordingly guaranteed for 50 years provided recommended design, installation and operation practices are adopted. As established from long term testing, PE100 may be operated continuously under pressure for up to 200 years at 20°C.

### **ELIMINATION OF PIPE CORROSION**

A major disadvantage with traditional galvanised iron air pipe has been corrosion of pipe with consequent problems: Contamination of air supply, damaging tools & pneumatics, increased friction giving energy losses, reduced bore and eventual need for replacement. Maxair eliminates this corrosion giving cleaner air and long lasting smooth bore.





### **DESIGN FLEXIBILITY**

The three extensive ranges of Maxair fittings - Socket Fusion, Electro Fusion or Compression, all using the same pipe, offer the Designer/Engineer maximum design flexibility.

The value to Industry of a total package which is readily altered at any stage is inestimable. This system is ideally suited to today's requirement for rapid installation schedules.

#### QUICK, CLEAN, SIMPLE INSTALLATION

No tedious threading of pipe, flaring or glueing. Installation can be 2-5 times quicker than with traditional materials. Simple to modify. New branches, extensions or take-offs can be added with a minimum of disruption & cost. The typical inflexibility of traditional systems is overcome. An extensive range of fittings provides further design versatility.



#### **ECONOMIC ADVANTAGES OF MAXAIR AIR PIPE SYSTEMS**

- S Elimination of costly air leaks. This is now possible with fusion welded fittings and/or proven O-Ring fittings. Common problems with traditional materials of maintaining air pressure and recurring air leaks, prove costly in both wastage of valuable compressed air and downtime/maintenance costs to rectify leaks.
- S Energy savings through reduced friction. Ultra smooth bore and low friction material.
- Savings in labour costs in installation & modification. The Maxair 'Air Saddle' (page 12) allows you to branch off the mains while under pressure, saving you factory downtime costs.
- \$ Low capital costs.
- S Low maintenance. Along with low initial costs, the true economy of the Maxair PE I 00 pipe system is realised in long term efficiency, reliability, versatility and minimisation of maintenance.



#### **CHEMICAL RESISTANCE**

Maxair has broad chemical compatibility and provides a solution for harsh corrosive environments. Fusion welded fittings provide a high degree of safety in these areas. Welded PE 100 is the ultimate Polyethylene system due to its fused jointing, minimum entrapment and high safety factor. Maxair has a high resistance to compressor oils, unlike PP. Compressor oils have a pronounced effect on the life expectancy of PP, therefore it cannot be recommended for compressed air applications. Please refer to Technical Department for specific applications.

#### **FOOD CONTACT GRADE MATERIALS**

Maxair PE100 pipe and fittings conform with AS/NZS2070.1 "Plastic material for food contact use", providing system approval for use within a food plant. Maxair PE100 does not support micro-organisms or bacterial growth. Maxair Compression fittings conform to AS/NZS1460, BS6920. Maxair Heavy Duty B.S.P threaded fittings conform with AS/NZS3855.3.





#### **SUPERIOR STRENGTH**

Maxair has higher strength, greater wall thickness and a higher safety factor of 2:1 than other grades of PE currently on the market. Maxair has excellent pressure/ temperature capabilities with minimum 50 year design life. Conservatively rated at PN16 for compressed air (16 bar or 235 P.S.I. pressure) @ 20deg C plus additional safety factor 2:1. Extremely robust. Impact resistant - is ductile in nature so will not shatter like PVC (PVC is not safe for compressed air). Excellent for underground applications. Thermally stable and suitable for -20deg C to +60deg C continuous, with peaks of up to 95deg C.

### **CHOOSING YOUR MAXAIR SYSTEM**

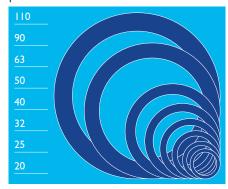
#### **STEP ONE: SELECTION OF PIPE SIZE.**

Three factors need to be taken into consideration when selecting pipe sizes for compressed air reticulation.

- -Flow required
- -Pressure
- -Distance & Future Expansion

A pipe size should be selected using the chart that allows for maximum compressor output Free Air Delivery (F.A.D.) at the required operating pressure and allow an additional margin for long distance and future expansion.

In practice we recommend a minimum reserve margin of 30%. Larger pipe provides reserve capacity for peak demands.



#### PRESSURE/FLOW TABLE

Maximum recommended air flow for each pipe size. Litres / sec shown in Black, c.f.m. in Blue.

PSI	BAR	AIR20	AIR25	AIR32	AIR40	AIR50	AIR63	AIR90	AIRI 10
40	2.76	6.6 <b>I</b> /s	14	24	45	92	161	450	773
40	2.76	14cfm	29	50	96	194	340	954	1638
60	4.14	10	22	37	72	146	256	718	1232
60	4.14	22	46	79	153	309	542	1521	2611
80	5.52	14	30	52	101	203	356	999	1714
80	5.52	30	64	111	213	430	754	2117	3635
100	6.9	18	39	68	130	262	460	1292	2218
100	6.9	39	83	143	276	555	975	2737	4699
150	10.34	29	62	108	208	418	733	2059	3535
150	10.34	62	132	228	440	885	1553	4362	7490
200	13.7	41	87	150	289	582	1021	2866	4921
200	13.7	87	184	317	612	1232	2163	6073	10427

The flow values allow for a pressure drop of 4% of applied pressure over 30 metres of pipe. If a maximum pressure drop of 2% is desired, figures listed above should be de-rated by approximately 20%-30%.

Compressor output can be approximately calculated using:

 $1 \text{kw} \times 1.35 = \text{HP} \times 4 = \text{CFM}$  for Screw compressors. For Piston compressors some manufacturers quote displacement which needs to be derated by 0.75 to calculate F.A.D. (Free Air Delivery).

Size of receivers shall be calculated as 10 times the flow in I/s optimum or 6 times the flow in I/s minimum

#### **CONVERSION FACTORS**

PRESSURE 1 psi = 0.069bar

1 kpa = 0.145psi 1 bar = 100kpa

1 bar = 14.5psi 1 kg/cm<sup>2</sup> = 1 bar FLOW 1 cfm = 0.4719 L/sec

1 l/sec = 2.119 cfm 1 m<sup>3</sup>/min = 35.3147 cfm

1 m<sup>3</sup>/min = 16.67 L/sec

#### **STEP TWO: SELECTION OF FITTINGS.**

Select the fitting style most suitable to your requirements. Three ranges are presented. Note that a combination is often used.



#### **Socket Fusion Weld Fittings**

(See P8-9) are joined quickly and easily using a welding process (see p25) and results in a fully fused joint of highest integrity which is leak free, tamper proof and visually pleasing.



#### Compression "0" Ring Fittings

(See P10-11) are joined quickly and easily by hand (see P24) and offer the advantage of being removable and reusable.



#### **Electro Fusion Weld Fittings**

(See P12) are assembled by hand and an electric current is applied via an Electro Fusion Welder (see P25). These fittings enable one or more joints to be assembled and aligned or adjusted prior to welding. This makes the installation of large bore pipework extremely quick and simple plus giving the advantage of a fully welded system.

Also included in this range are "Underpressure air saddles" which are designed for under pressure connections thus eliminating the need to shut down plant and equipment for new connections. They are particularly useful in large plants with 24 hour operations.

### STEP THREE: SELECTION OF OUTLET REQUIREMENTS

Select the outlet that suits your requirements (page 20) from our ready-to-use outlet options.



### **MAXAIR PEI00 COMPRESSED AIR PIPE**

# MANUFACTURED TO AS/NZS4130 STANDARD.



<b>PRODUCT</b>	WALL	NOM. I.D	O.D.	LENGTH
CODE	THICKNESS	Imperial		Metres
		equivale	nt	
AIR 20	2.8mm	5/8"	20mm	6m
AIR 25	3.5mm	3/4"	25mm	6m
AIR 32	4.4mm	1"	32mm	6m
AIR 40	5.5mm	11/4"	40mm	6m
AIR 50	6.9mm	11/2"	50mm	6m
AIR 63	8.6mm	2"	63mm	6m
AIR 90	12.5mm	3"	90mm	6m
AIR 110	15.2mm	4"	110mm	6m



## **PIPE CLIPS**

#### **CL PIPE CLIPS**

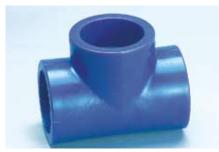
A quick and versatile clip that has the following features:

- •Three optional positions for fixings
- Slots for cable-tie fixings.
- Removable spacer allows greater/ less clearance to wall.
- Precise dovetailing on base interlocks to enable neat multiple pipe alignments.
- Adjustable settings allow for movement due to expansion and contraction.

COD	
CL20	
CL25	
CL32	
CL40	
CL50	
CL63	
CL90	
CL110	
	CL20 CL25 CL32 CL40 CL50 CL63 CL90



## MAXAIR BLUE PEI00 COMPRESSED AIR FITTINGS TO DIN 16963











#### 90 DEG TEE PIPExPIPExPIPE CODE 20 x 20 x 20 WT 20 WT 25 25 x 25 x 25 32 x 32 x 32 WT 32 40 x 40 x 40 WT 40 50 x 50 x 50 WT 50 63 x 63 x 63 WT 63 90 x 90 x 90 WT 90 110 x 110 x 110 WT 110

REDUCING	90 DEG TEE
PIPEXPIPEXPIPE	CODE
25 x 20 x 25	WRT 2520
32 x 20 x 32	WRT 3220
32 x 25 x 32	WRT 3225
40 x 20 x 40	WRT 4020
40 x 25 x 40	WRT 4025
40 x 32 x 40	WRT 4032
50 x 20 x 50	WRT 5020
50 x 25 x 50	WRT 5025
50 x 32 x 50	WRT 5032
50 x 40 x 50	WRT 5040
63 x 25 x 63	WRT 6325
63 x 32 x 63	WRT 6332
63 x 40 x 63	WRT 6340
63 x 50 x 63	WRT 6350
·	·

COUPLINGS	5
PIPExPIPE	CODE
20 x 20	WC 20
25 x 25	WC 25
32 x 32	WC 32
40 x 40	WC 40
50 x 50	WC 50
63 x 63	WC 63
90 x 90	WC 90
110 x110	WC 110

REDUCING	COUPLINGS
FITTINGXPIPE	CODE
25 x 20	WRC 2520
32 x 20	WRC 3220
32 x 25	WRC 3225
40 x 20	WRC 4020
40 x 25	WRC 4025
40 x 32	WRC 4032
50 x 20	WRC 5020
50 x 25	WRC 5025
50 x 32	WRC 5032
50 x 40	WRC 5040
63 x 25	WRC 6325
63 x 32	WRC 6332
63 x 40	WRC 6340
63 x 50	WRC 6350
90 x 63	WRC 9063
110 x 63	WRC 11063
110 x 90	WRC 11090

THREADED I	FLANGE TABLE D
FLANGEXTHREAD	CODE
20 x 1/2"	FT 20
25 x 3/4"	FT 25
32 x 1"	FT 32
40 x 11/4"	FT 40
50 x 1 1/2''	FT 50
63 x 2"	FT 63
90 x 3"	FT 90
110 x 4"	FT 110











## FOR SOCKET FUSION WELDING

#### **STUB FLANGE**

PIPE	CODE	
20	WF 20	
25	WF 25	
32	WF 32	
40	WF 40	
50	WF 50	
63	WF 63	
90	WF 90	
110	WF 110	

<b>FLANGE</b>	KITS TYPE A
PIPExPIPE	CODE
20 x 20	FKA 20
25 x 25	FKA 25
32 x 32	FKA 32
40 x 40	FKA 40
50 x 50	FKA 50
63 x 63	FKA 63
90 x 90	FKA 90
110 x 110	FKA110
CONSISTS OF: 2	x BACKING RING, 2 x STUB
FLANGE, 1 x GA	SKET, BOLTS, WASHERS & NUTS

#### **FLANGE KITS TYPE B**

I LAI10L IXI	19 111 6 6
PIPExTHREAD	CODE
20 x 1/2"	FKB 20
25 x 3/4"	FKB 25
32 x 1"	FKB 32
40 x 11/4"	FKB 40
50 x 11/2"	FKB 50
63 x 2"	FKB 63
90 x 3"	FKB 90
110 x 4"	FKB 110
CONCICTO OF 1 v D	ACVINC DINC 1 V TUDE ADED

CONSISTS OF: 1 x BACKING RING, 1 x THREADED FLANGE, 1 x STUB FLANGE, 1 x GASKET, BOLTS, WASHERS & NUTS

#### FLANGE KITS TYPE C TABLE D

I LAITOL IXII	J I II L O IABLL D
PIPEXEXIST FLANGE	CODE
20	FKC 20
25	FKC 25
32	FKC 32
40	FKC 40
50	FKC 50
63	FKC 63
90	FKC 90
110	FKC 110
CONSISTS OF: 1 x BACI	CING RING 1 x STUR

CONSISTS OF: 1 x BACKING RING, 1 x STUB FLANGE, 1 x GASKET, BOLTS, WASHERS & NUTS

#### **BACKING RING & GASKETS**

	171140 1	11110 G	OASIL I S	
SIZE	RING	\$PRICE	GASKET	_
20	BR 20	4.30	WFG 20	_
25	BR 25	5.00	WFG 25	_
32	BR 32	5.75	WFG 32	_
40	BR 40	8.70	WFG 40	_
50	BR 50	17.45	WFG 50	_
63	BR 63	23.90	WFG 63	_
90	BR 90	39.95	WFG 90	_
110	BR 110	52.25	WFG 110	_

#### **THREADED 90 DEG TEE**

PIPExTHREAD	CODE
20 x 1/2"	WTF 2015
25 x 1/2"	WTF 2515
32 x 1/2"	WTF 3215
40 x 1/2"	WTF 4015

#### **END CAPS**

PIPE	CODE
20	WEC 20
25	WEC 25
32	WEC 32
40	WEC 40
50	WEC 50
63	WEC 63
90	WEC 90
110	WEC 110

#### **90 DEG ELBOW**

PIPEXPIPE	CODE
20 x 20	WE 20
25 x 25	WE 25
32 x 32	WE 32
40 x 40	WE 40
50 x 50	WE 50
63 x 63	WE 63
90 x 90	WE 90
110 x 110	WE 110

#### **45 DEG ELBOW**

PIPExPIPE	CODE	
20 x 20	W45 E20	
25 x 25	W45 E25	
32 x 32	W45 E32	
40 x 40	W45 E40	
50 x 50	W45 E50	
63 x 63	W45 E63	
90 x 90	W45 E90	
110 x 110	W45E 110	

#### **MALE ADAPTOR**

PIPExTHREAD	CODE	
20 x 1/2"	WMA 2015	
25 x 3/4"	WMA 2520	
32 x 1"	WMA 3225	
40 x 11/4"	WMA 4032	
50 x 11/2"	WMA 5040	
63 x 2"	WMA 6350	

#### **FEMALE ADAPTOR**

	<i>-</i>	
PIPExTHREAD	CODE	
20 x 1/2"	WFA 2015	
25 x 3/4"	WFA 2520	
32 x 1"	WFA 3225	
40 x 11/4"	WFA 4032	
50 x 11/2''	WFA 5040	
63 x 2"	WFA 6350	

## THREADED 90 DEGREE ELBOWS

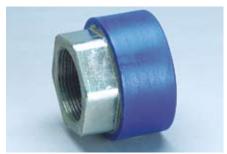
70 DEGILLE	LLDO W 5	
PIPE x THREAD	CODE	
20 x 1/2"	WEF 2015	
	Lugged (Right)	
25 x 3/4"	WEF 2520	
	No lug (Left)	













Other fittings and sizes are available





PIPE x PIPE	CODE
20 x 20	C 20
25 x 25	C 25
32 x 32	C 32
40 x 40	C 40
50 x 50	C 50
63 x 63	C 63
90 x 90	C 90
110 x 110	C 110



### **REDUCING COUPLING**

PIPE x PIPE	CODE	
25 x 20	RC 2520	
32 x 25	RC 3225	
40 x 32	RC 4032	
50 x 40	RC 5040	
63 x 50	RC 6350	



### **AIR SADDLE**

PIPE x FEM THREAD	CODE
40 x 1/2"- 3/4" - 1"	AS 40*
50 x 1/2"- 3/4" - 1"	AS 50*
63 x 1/2", 3/4", 1", 1 1/4", 1 1/2"	AS 63*
90 x 1", 1 1/4", 1 1/2", 2"	AS 90*
110 x 1", 1 1/4", 1 1/2", 2"	AS110*
(*When ordering please	complete code)





#### **FEMALE ADAPTOR**

	AI I VII	
PIPE x THREAD	CODE	
20 x 1/2"	FA 2015	
25 x 3/4"	FA 2520	
32 x 1"	FA 3225	
40 x 11/4"	FA 4032	_
50 x 11/2"	FA 5040	_
63 x 2"	FA 6350	_
90 x 3"	FA 9075	_
110 x 4"	FA1104	_



### **MALE ADAPTOR**

	. •	
PIPE x THREAD	CODE	
20 x 1/2"	MA 2015	
25 x 1/2"	MA 2515	
25 x 3/4"	MA 2520	
32 x 1"	MA 3225	
40 x 11/4"	MA 4032	
50 x 11/2"	MA 5040	
63 x 2"	MA 6350	
90 x 3"	MA 9075	
110 x 4"	MA 1104	



#### **BLANKING PLUG**

DLAINKII	NG FLOG	
PIPE	CODE	
20mm	BP20	
25mm	BP25	
32mm	BP32	
40mm	BP40	
50mm	BP50	
63mm	BP62	





#### **END CAPS**

PIPE	CODE	
25	EC 25	
32	EC 32	
40	EC 40	
50	EC 50	
63	EC 63	
90	EC 90	
110	EC 110	

#### **90 DEG ELBOW**

PIPE x PIPE	CODE
20 x 20	E 20
25 x 25	E 25
32 x 32	E 32
40 x 40	E 40
50 x 50	E 50
63 x 63	E 63
90 x 90	E 90
110 x 110	E 110



#### 90 DEG TEE

PIPE x PIPE x PIPE	CODE
20 x 20 x 20	T 20 *
25 x 25 x 25	T 25 *
32 x 32 x 32	T 32
40 x 40 x 40	T 40
50 x 50 x 50	T 50
63 x 63 x 63	T 63
90 x 90 x 90	T 90
110 x 110 x 110	T 110
* Add \$10.00 for	non-drip option

### **90 DEG TEE** with threaded Female Offtake

70 DLG ILL W	itti tilleaded Fernale Offtake
PIPE x THREAD x PIPE	CODE
20 x 1/2" x 20	TF 2015
25 x 3/4" x 25	TF 2520
32 x 1" x 32	TF 3225
40 x 11/4" x 40	TF 4032
50 x 11/2" x 50	TF 5040
63 x 2" x 63	TF 6350
90 x 3" x 90	TF 9075

#### **90 DEG ELBOW**

with threaded	l Female Offtake	
PIPE x PIPE	CODE	
20 x 1/2"	EF 2015	
25 x 3/4"	EF 2520	
32 x 1"	EF 3225	
40 x 11/4"	EF 4032	
50 x 11/2"	EF 5040	
63 x 2"	EF 6350	



#### 90 DEG ELBOW

with threaded	Male Offtake	
PIPE x THREAD	CODE	
20 x 1/2"	EM 2015	
25 x 3/4"	EM 2520	
32 x 1"	EM 3225	
40 x 11/4"	EM 4032	
50 x 11/2"	EM 5040	
63 x 2"	EM 6350	



### **REDUCING 90 DEG TEE**

ILDUCIIIO A	O DEG ILL
PIPE x PIPE x PIPE	CODE
25 x 20 x 25	RT 2520 *
32 x 25 x 32	RT 3225 *
40 x 25 x 40	RT 4025
40 x 32 x 40	RT 4032
50 x 25 x 50	RT 5025
50 x 40 x 50	RT 5040
63 x 50 x 63	RT 6350
* Add \$10.00 for	non-drip option

### **ELBOW FEMALE (LUGGED)**

	•	,
PIPE x THREAD	CODE	
20 x 1/2"	LEF 2015	
25 x 3/4"	LEF 2520	



### **REDUCING SET**

25 x 20	RS 2520	
32 x 20	RS 3220	
32 x 25	RS 3225	
40 x 25	RS4025	
40 x 32	RS 4032	
50 x 25	RS 5025	
50 x 32	RS 5032	
50 x 40	RS 5040	
63 x 25	RS 6325	
63 x 32	RS 6332	
63 x 40	RS 6340	
63 x 50	RS 6350	

### **COMPRESSION VALVE**

PIPE	CODE	
20	CV 20	
20	CV 20	
25	CV 25	
25	CV 25	
22	01122	
32	CV 32	



#### **UNIVERSAL ADAPTOR**

PIPE x METAL PIPE	CODE
25 x 15-22mm	UA 25A
25 x 20-27mm	UA 25B
25 x 27-35mm	UA 25C
32 x 27-35mm	UA 32
50 x 35-50mm	UA 50



# MAXAIR ELECTRO FUSION FITTINGS FOR COMPRESSED AIR AS1129



#### IOINER

,0	
PIPE x PIPE	CODE
50 x 50	EFC 50
63 x 63	EFC 63
90 x 90	EFC 90
110 x 110	EFC 110



#### 90 DEG ELBOW

PIPE x PIPE	CODE
50 x 50	EFE 50
63 x 63	EFE 63
90 x 90	EFE 90
110 x 110	EFE110



### REDUCING IOINER

KEDOCING	JOHALIN
PIPE x PIPE	CODE
32 x 25	EFRC 3225
50 x 32	EFRC 5032
50 x 40	EFRC 5040
63 x 32	EFRC 6332
63 x 40	EFRC 6340
63 x 50	EFRC 6350
90 x 63	EFRC 9063
110 x 90	EFRC 11090



#### **45 DEG ELBOW**

PIPE x PIPE	CODE
F0 F0	FF 4 F F F O
50 x 50	EF45E 50
C2 C2	FF4FF C2
63 x 63	EF45E 63
90 x 90	FF45F 90
90 X 90	LI 43L 30
110 x 110	FF45F 110
110 / 110	LI 13L 110



#### TEE

PIPE x FITTING	CODE
50 x 50	EFT 50
63 x 63	EFT 63
90 x 90	EFT 90
110 x 110	EFT 110



#### **END CAP**

FITTING	CODE
50	EFEC 50
63	EFEC 63
90	EFEC 90
110	EFEC 110



PIPE x FITTING	CODE
50 x 50	EFT 50
63 x 63	EFT 63
90 x 90	EFT 90
110 x 110	EFT 110



#### **STUB FLANGE**

FITTING x FLANGE CODE		
63 x 63	EFF 63	
90 x 90	EFF 90	
110 x 110	EFF 110	



#### **REDUCING SPIGOT**

FITTING x FITTING	CODE
63 x 50	EFRS 6350
90 x 50	EFRS 9050
90 x 63	EFRS 9063
110 x 63	EFRS 11063
110 x 90	EFRS 11090



#### **AIR SADDLE**

for under pressure connections				
PIPE x FITTING	CODE			
50 x 32	EFASP 5032	2		
63 x 32	EFASP 6332	2		
90 x 32	EFASP 9032	2		
90 x 63	EFASP 9063	3		
110 x 32	EFASP 1103	32		
110 x 63	EFASP 110	53		



#### **MALE ADAPTOR**

PIPE x THREAD	CODE
50 x 1"	EFMA 5025
50 x 1½"	EFMA 5040
63 x 1½"	EFMA 6340
63 x 2"	EFMA 6350



### **BRANCH SADDLE**

PIPE x FITTING CODE	
63 x 32 EFBS 6332	
90 x 32 EFBS 9032	
90 x 63 EFBS 9063	
110 x 32 EFBS 11032	
110 x 63 EFBS 11063	



#### **FEMALE ADAPTOR**

, ,	, u •
PIPE x THREAD	CODE
50 x 1½"	EFFA 5040
63 x 2"	EFFA 6350



#### **BACKING RING TABLE D**

DACKII 10 II	IIIO IADEL D
PIPE x FLANGE	CODE
50 x 50	BR 50
63 x 63	BR 63
90 x 90	BR 90
110 x 110	BR 110
GASKET	
FLANGE	CODE
50	WFG 50
63	WFG 63
90	WFG 90
110	WFG 110



### THREADED FLANGE TABLE D

PIPE x FLANGE	CODE
50 x 1½"	FT 50
63 x 2"	FT 63
90 x 3"	FT 90
110 x 4"	FT 110



#### PIPE WIPES

For pre-cleaning of weld surfaces CODE (50 per container)

\*NOTE Smaller sizes of most fittings are available if required.

# **MAXAIR INSTALLATION TOOLS**

### **PIPE CUTTERS**

FOR PIPE SIZES	CODE
20-25mm	SC1
20-32mm	PC32
20-40mm	PC40
20-63mm	PC63



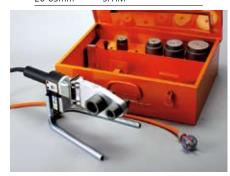
#### **NUT WRENCH**

CODE	SIZE
NW1	40-63mm
NW2	63-110mm



## SOCKET FUSION WELDING MACHINE

STYLE	CODE	
Hand machine		
20-63mm	SEHM	



#### **ELECTRO FUSION WELDER**

LLLCIIIO I	COICIT WEEDER
PIPE	CODE
20-110mm	EF WELDER



#### PIPE CHAMFERING TOOLS

I II E CITA	II EIMING I GOES
FOR PIPE SIZES	CODE
20 - 63mm	CHAM 2063



### PIPE SCRAPERS

#### for fusion weld process

PIPE	CODE	
20mm	WPS 20	
25mm	WPS 25	
32mm	WPS 32	
40mm	WPS 40	
50mm	WPS 50	
63mm	WPS 63	



#### **UNIVERSAL TOOL**

Multiple use tool for pipe scraping, cutting & chamfering

cutting & chamtering		
SIZE	CODE	
63-110mm	UT 110	



## **VALVES**



### **BALL VALVES FEM & FEMALE**

SIZE	CODE	
1/2"	BV15	
3/4"	BV20	
1"	BV25	
1 1/4"	BV32	
1 1/2"	BV40	
2"	BV50	

#### **BALL VALVES MALE & FEMALE**

SIZE	CODE
1/4"	VMF08
1/2"	VMF15

# HIRE TOOLS

### ALL TOOLS SHOWN ARE AVAILABLE FOR HIRE

Cutters	PC40	
	PC63	
Chamfering Tool		
Nut Wrench	NW1	
	NW2	
Pipe Scrapers	WPS 20-32	
	WPS 40-63	
Universal Tool	UT 110	
Socket Fusion Welder for up	to 63mm	
Electro Fusion Welder		
Socket Fusion Weld Kit		
Electro Fusion Welder Kit		

### **BUTTERFLY VALVES**

	.,
TYPE	CODE
50mm WAFER	BVFW50
50mm LUGGED	BVFL50
80mm WAFER	BVFW80
80mm LUGGED	BVFL80
100mm WAFER	BVFW100
100mm LUGGED	BVFL100
Lugged Valves hav	e M16 threads and are
Table D.	

## **MAXAIR BSP THREADED FITTINGS**

Heavy duty fittings made from highest quality engineering grade materials.

Maximum material temperature range with load 100deg C. Pressure ratings @ 20 Deg C. Up to 50mm 16 bar / 235psi 65mm 12 bar /175psi 80 and 100mm 10 bar /145 psi









#### **REDUCING HEX BUSH**

KEDUCING	HEY BOSH
SIZE	CODE
1/2" x 1/4"	PRB 1508
1/2" x 3/8"	PRB 1510
3/4" x 1/4"	PRB 2008
3/4" x 3/8"	PRB 2010
3/4" x 1/2"	PRB 2015
1" x 1/2"	PRB 2515
1" x 3/4"	PRB 2520
1 1/4" x 3/4"	PRB 3220
1 1/4" x 1"	PRB 3225
1 1/2" x 3/4"	PRB 4020
1 1/2" x 1"	PRB 4025
1 1/2" x 11/4"	PRB 4032
2" x 3/4"	PRB 5020
2" x 1"	PRB 5025
2" x 1 1/4"	PRB 5032
2" x 1 1/2"	PRB 5040
2 1/2" x 2"	PRB 6550
3" x 1 1/2"	PRB 8040
3" x 2"	PRB 8050
3" x 2 1/2"	PRB 8065
4" x 2"	PRB 10050
4" x 2 1/2"	PRB 10065
4" x 3"	PRB 10080
BRASS	
1/4" x 1/8"	32240402
3/8" x 1/4"	32240604
1/2" x 1/4"	32240804
1/2" x 3/8"	32240806
3/4" x 1/4"	32241204
3/4" x 1/2"	32241208
-	

#### FI BOW M & F

ELDUW	Мαг	
SIZE	CODE	
1/2"	PMFE 15	
3/4"	PMFE 20	
1"	PMFE 25	
1 1/4"	PMFE 32	
1 1/2"	PMFE 40	
2"	PMFE 50	
BRASS		
1/8"	340002	
1/4"	340004	
3/8"	340006	
1/2"	340008	

#### **ELBOW F & F**

	• •
SIZE	CODE
1/2"	PE 15
3/4"	PE 20
1"	PE 25
1 1/4"	PE 32
1 1/2"	PE 40
2"	PE 50
BRASS	
1/8"	350002
1/4"	350004
3/8"	350006
1/2"	350008

1/2"

HEX NIP	PLE	
SIZE	CODE	
1/4"	PHN 08	
3/8"	PHN 10	
1/2"	PHN 15	
3/4"	PHN 20	
1"	PHN 25	
1 1/4"	PHN 32	
1 1/2"	PHN 40	
2"	PHN 50	
2 1/2"	PHN 65	
3"	PHN 80	
4"	PHN 100	
BRASS		
SIZE	CODE	
1/8"	332502	
1/4"	332504	
3/8"	332506	

All fittings listed are available in brass. When ordering in brass, substitute "P" with "B".







#### 3/4" x 3/8" PRHN 2010 3/4" x 1/2" PRHN 2015 1" x 1/2" PRHN 2515 1" x 3/4" PRHN 2520 1 1/4" x 3/4" PRHN 3220 1 1/4" x 1" PRHN 3225 1 1/2" x 3/4" PRHN 4020 1 1/2" x 1" PRHN 4025 1 1/2" x 1 1/4" PRHN 4032 2" x 3/4" PRHN 5020 2" x 1" PRHN 5025

PRHN 5032

PRHN 5040

PRHN 6550 PRHN 8040

PRHN 8050

**REDUCING HEX NIPPLE** 

CODE

PRHN 1506

PRHN 1508

PRHN 1510

SIZE

1/2" x 1/8" 1/2" x 1/4" 1/2" x 3/8"

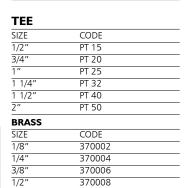
2" x 1 1/4"

2" x 1 1/2'

2 1/2" x 2" 3" x 1 1/2"

3" x 2"

3" x 2 1/2"	PRHN 8065	
4" x 2"	PRHN 10050	
4" x 2 1/2"	PRHN 10065	
4" x 3"	PRHN 10080	
BRASS		
1/4" x 1/8"	33240402	
3/8" x 1/4"	33240604	
1/2" x 1/4"	33240804	
1/2" x 3/8"	33240806	
3/4" x 1/4"	33241204	







#### **DOUBLE OULET -BRASS MALE INLET**

SIZE	CODE
1/4" x 1/4"	BDOMF 08
3/8" x 3/8"	BDOMF 10
1/2" x 1/2"	BDOMF 15



#### **DOUBLE OULET -BRASS FEMALE INLET**

D.10-100 1 E.	
SIZE	CODE
1/4" x 1/4"	BDO 08
3/8" x 3/8"	BDO 10
1/2" x 1/2"	BDO 15



### **BRASS LUGGED ELBOW**

5.0.00	LOCOLD LLDO!	
SIZE	CODE	_
15	BLE 15	_
20	BLE 20	_



#### **TEE M&F BRASS**

SIZE	CODE	
1/2"	BMFT15	

## **MAXAIR BSP THREADED FITTINGS**

### **TRIPLE OUTLET - ALLOY**

SIZE	CODE
MALE x FEMALE	
1/2" x 1/4" F x 3	ATO 1508
	=
3/4" x 1/4" F x 3	ATO 2008
1" x 1/4" F x 3	ATO 2508



# **5 WAY STRAIGHT MANIFOLD**

SIZE	CODE	
1/4" x 2	AN 2	
1/4" x 3	AN 3	
1/4" x 4	AN 4	
1/4" x 5	AN 5	
Other styles	available	

CODE

PS 15 PS 20 PS 25

PS 32

PS 40 PS 50

PS 65 PS 80

PS 100

330002

330004

**SOCKET** SIZE

1/2"

3/4′

1 1/4

1 1/2' 2"

2 1/2 3"

BRASS 1/8"

**PLUG** 

3/4′

1 1/4′

1 1/2′

2 1/2′ 3′′

BRASS

4′′

1/8" 1/4"

3/8"

M&F SIZE 1/2"

3/4"

1 1/4

1 1/2"

1/4"

4"





#### 3/8" 330006 1/2" 330008 **REDUCING SOCKET**

	JOUIL !
SIZE	CODE
3/4" x 1/2"	PRS 2015
1" x 1/2"	PRS 2515
1" x 3/4"	PRS 2520
1 1/4" x 3/4"	PRS 3220
1 1/4" x I"	PRS 3225
1 1/2" x 3/4"	PRS 4020
1 1/2" x 1"	PRS 4025
1 1/2" x 1 1/4"	PRS 4032
2" x 3/4"	PRS 5020
2" x 1"	PRS 5025
2" x 1 1/4"	PRS 5032
2" x 1 1/2"	PRS 5040
2 1/2" x 1 1/2"	PRS 6540
2 1/2" x 2"	PRS 6550
3" x 2"	PRS 8050
3" x 2 1/2"	PRS 8065
4" x 2 1/2"	PRS 10065
4" x 3"	PRS 10080



1 1/4" X 1"	PRS 3225
1 1/2" x 3/4"	PRS 4020
1 1/2" x 1"	PRS 4025
1 1/2" x 1 1/4"	PRS 4032
2" x 3/4"	PRS 5020
2" x 1"	PRS 5025
2" x 1 1/4"	PRS 5032
2" x 1 1/2"	PRS 5040
2 1/2" x 1 1/2"	PRS 6540
2 1/2" x 2"	PRS 6550
3" x 2"	PRS 8050
3" x 2 1/2"	PRS 8065
4" x 2 1/2"	PRS 10065

CODE PP 15

PP 20 PP 25

PP 32

PP 40 PP 50

PP 65 PP 80

PP 100

315202

315204

315206

315208

BBU 15

BBU 2O BBU 25

BBU 32

BBU 40 BBU 50

**BRASS BARREL UNIONS** 



#### **BARBED HOSE JOINER-BRASS**

	•
HOSE SIZE	CODE
3/8" x 3/8"	20506
1/2" x 1/2"	20508



PRESSURE SAFETT VALVE		
SIZE	CODE	
1/4"	PSV 08	
1/2"	PSV 15	
3/4"	PSV 20	
1"	PSV 25	
(Refer to 1	echnical department for	



recommended ratings).

14014-17	I OININ VALVE	
SIZE	CODE	
1/4"	NRV 08	
1/2"	NRV 15	
3/4"	NRV 20	
1"	NRV 25	
1 1/4"	NRV 32	
1 1/2"	NRV 40	
2"	NRV 50	

### **LINE STRAINER**

SIZE	CODE	
1/2"	LS 15	
3/4"	LS 20	



#### **PORTING BLOCK**

SIZE	CODE	
1/4"	PB 08	
3/8"	PB 10	
1/2"	PB 15	



#### **HOSE BARBS - BRASS**

HOSE SIZE	
x THREAD	CODE
1/4" x 1/4"	2090404
3/8" x 1/4"	2090604
1/2" x 1/4"	2090804
1/4" x 3/8"	2090406
3/8" x 3/8"	2090606
1/2" x 3/8"	2090806
3/8" x 1/2"	2090608
1/2" x 1/2"	2090808
3/4" x 1/2"	2091208
1/2" x 3/4"	2090812
3/4" x 3/4"	2091212
1" x 3/4"	2091612
3/4" x 1"	2091216
1" x 1"	2091616



#### **FEM HOSE BARBS - BRASS**

HOSE x THREAD	CODE
3/8" x 1/4"	2070604
1/2" x 1/4"	2070804



#### BARRED TEE - BRASS

DANDLD	ILL - DIVASS	
HOSE SIZE	CODE	
3/8" x 3/8"	20306	
1/2" v 1/2"	20308	





#### NON-RETURN VALVE

SIZE	CODE	
1/4"	NRV 08	
1/2"	NRV 15	
3/4"	NRV 20	
1"	NRV 25	
1 1/4"	NRV 32	
1 1/2"	NRV 40	
2"	NRV 50	





## **MAXAIR PIPE SUPPORT SYSTEMS**



#### **PURLIN HANGER**

I OILLIA I IAIAOLIK		
CODE	DESCRIPTION	
HS 1	Used to hang wire or rod	
(above)		
HS 1A	Used to mount CL pipe clips	
(below)		



METAL	ROD	(shown	left,	assembled)
CO.D.E.	7	CCDIDTI	-	

CODE	DESCRIPTION	
HS4	5mm GAL ROD - 4m length	
ROD JC	<b>DINER</b> (shown left assembled)	
CODE	DESCRIPTION	
HSAI	IOINER FOR HS4 ROD	_



#### **BEAM CLAMPS**

DLAI'I C	LAMI
CODE	DESCRIPTION
HS2U	FOR UP TO 16mm BEAMS
(above)	(For hanging 10mm threaded
	rod, mounting CL pipe clips etc)
HS 2A	FOR 3mm-7mm BEAMS
HS 2B	FOR 8mm-13mm BEAMS
HS 2C	FOR 14mm-20mm BEAMS
(below)	(For hanging HS4 rod, mounting
	CL pipe clips/cable ties etc)



#### **SPRING CLIP**

CODE	DESCRIPTION
HS5	FITS TO CL CLIPS & HS4 ROD



DEAM CLA	AMP FIFE HANGER
CODE	DESCRIPTION
HS 2A H1	FOR PIPE UP TO 32mm
HS 2B H1	FOR PIPE UP TO 32mm
HS 2C H1	FOR PIPE UP TO 32mm
HS 2A H2	FOR PIPE UP TO 50mm
HS 2B H2	FOR PIPE UP TO 50mm
HS 2C H2	FOR PIPE UP TO 50mm



### **MOUNTING PLATES**

1.1001411	INGILAILS	
CODE	DESCRIPTION	
HSCMP10	SUITS M10 ROD	
HSCMP12	SUITS M12 ROD	



#### **BEAM STRAP CLAMP**

CODE	DESCRIPTION	
HS 2A ST3	Retains pipe in crane beams, etc	
LIC OD CTO	District of the formula because the	
HS 2B ST3	Retains pipe in crane beams, etc	
HS 2C ST3	Retains pipe in crane beams, etc	
115 20 515	netallis pipe in ciarie searis, etc	
3=75mm strap, 150mm is available		



#### **ROD PURLIN HANGER**

(SUITS THREADED ROD)		READED ROD)	
	CODE	DESCRIPTION	
	HSP 10	LIGHT DUTY SUITS M10 ROD	
	HSPH 10	HEAVY DUTY SUITS M10 ROD	
	HSPH 12	HEAVY DUTY SUITS M12 ROD	



DINIVERSAL CLAIMF		
CODE	DESCRIPTION	
HS3	Suits beams up to 18mm	
	Has 2-cup head attachment	
	positions	



#### **VERTIGO BOLTS**

CODE
HSVH10
HSVV10
(SUITS M10 THREADED ROD)



טוט סטון חסט
DESCRIPTION
20mm
25mm
32mm
40mm
50mm
63mm



### THREADED ROD (shown assembled with

I FINEADED ROD (snown assembled with nut)				
CODE	DESCRIPTION			
HS ROD10	10mm 2 metre length			
HS ROD12	12mm 2 metre length			
THREAD	ED ROD NUT			
CODE	DESCRIPTION			
HSN10	10mm NUT			
HSNI12	12mm NLIT			



ROD CLAMP PIPE HANGER				
CODE DESCRIPTION				
5mm Rod	5mm Rod Clamp Pipe Hanger for use above			
suspended	ceilings			
HS5 H1	UP TO 32mm			
HS5 H2	UP TO 50mm			



#### **BOLTED PIPE CLIP TO SUIT ROD**

CODE	To Suit:
HSBC 20M10	20mm PIPE / 10mm ROD
HSBC 25M10	25mm PIPE / 10mm ROD
HSBC 32M10	32mm PIPE / 10mm ROD
HSBC 40M10	40mm PIPE / 10mm ROD
HSBC 50M10	50mm PIPE / 10mm ROD
HSBC 63M10	63mm PIPE / 10mm ROD
HSBC 90M10	90mm PIPE / 10mm ROD
HSBC 110M10	110mm PIPE / 10mm ROD
HSBC 90M12	90mm PIPE / 12mm ROD
HSBC 110M12	110mm PIPE/12mm ROD



16

DESCRIPTION

**HANGING CLIPS** 

CODE

Right in Photo.

FUNLIN HANGEN FUN FIFE			
CODE	DESCRIPTION		
HS1AH1	FOR PIPE UP TO 32mm		
HS1AH2	FOR PIPE UP TO 50mm		
Left in Photo			

FOR PIPE UP TO 32mm FOR PIPE UP TO 50mm



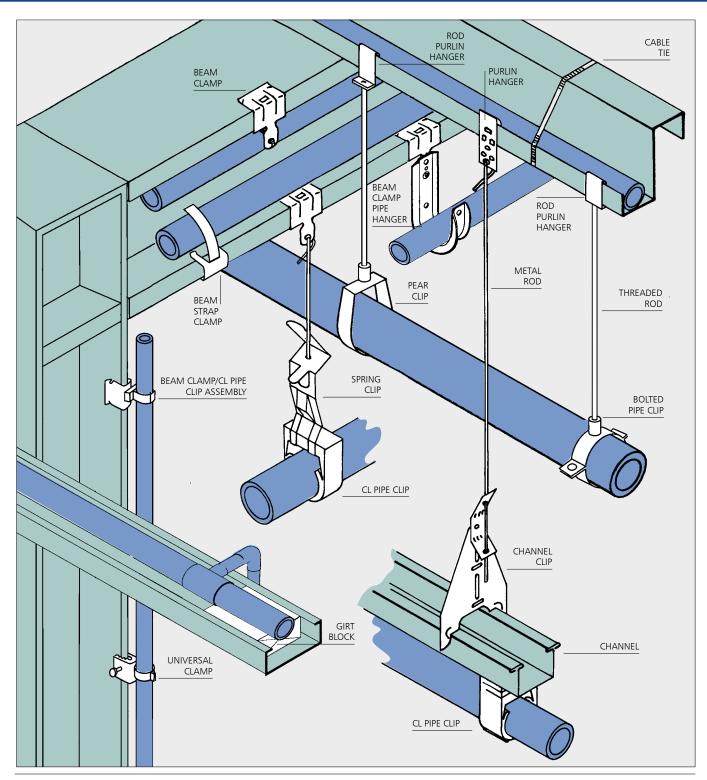
### **PEAR CLIP TO SUIT ROD**

· LAIL OLII	I O OOII NOD
CODE	DESCRIPTION
HSPC 20M10	20mm PIPE / 10mm ROD
HSPC 25M10	25mm PIPE / 10mm ROD
HSPC 32M10	32mm PIPE / 10mm ROD
HSPC 40M10	40mm PIPE / 10mm ROD
HSPC 50M10	50mm PIPE / 10mm ROD
HSPC 63M12	63mm PIPE / 12mm ROD
HSPC 90M12	90mm PIPE / 12mm ROD

maxaır



## **MAXAIR PIPE SUPPORT SYSTEMS**

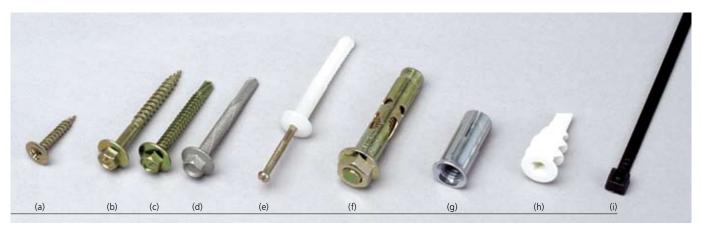


# CONTINUOUS SUPPORT CHANNEL

Used to increase the spacing between clips and is particularly useful for spanning between unistrut, pipe racks, etc. 2 clips per length.

CODE	SIZE	LENGTH
HSS25	25	3m
HSS32	32	3m
HSS40	40	3m
HSS50	50	3m
HSS63	63	3m





#### **SCREWS BUTTON HEAD (a)**

CODE	SIZE	
F1	8G x 25	
F2	8G x 32	
F3	12G x 40	

### NYLON ANCHORS (e) \*

CODE	SIZE	
F14	6.5 x 50	
F15	6.5 x 75	

#### DROP IN ANCHOR (g)

		(0)
CODE	SIZE	
F28	10mm	
F29	12mm	

#### **NYLON CABLE TIES (i)**

CODE	SIZE	
CT1	190 x 4.8	
CT2	300 x 4.8	
CT3	370 x 4.8	
CT4	380 x 7.6	

#### **SCREWS HEX HEAD**

CODE	SIZE
F5 (b)	12G x 45 TYPE17 TIMBER
F6 (c)	12G x 45 STEEL
F7	12G x 75 STEEL
F8 (d)	12G x 32 LONG DRILL POINT FOR HEAVY STEEL

#### DYNA BOLTS (f)

חווע	DOLIO (I)
CODE	SIZE
F24	10 x 50
F25	10 x 60
F26	12 x 60
F27	16 x 65

### PLASTERMATE (h)

	()
CODE	
F30	

<sup>\*</sup>HEAVY DUTY REMOVABLE NYLON ANCHORS ALSO AVAILABLE

## **MAXAIR ACCESSORIES**



#### **MOUNTING BRACKETS**

I IOOITII II O DILAGILLIO		
CODE	THREAD	
TFWM15	1/2"	
TFWM20	3/4"	
TFWM25	1"	

Designed to rigidly mount TF or EF fittings suits 20, 25, & 32mm Pipe fittings. Shown below - typical use.



CLILIIIO		. IOIT LAITE
CODE	SIZE	
CPF14	14mm	
CPF19	19mm	
CPF25	25mm	
CPF32	32mm	
CPF38	38mm	
CPF48	48mm	
Suitable f	or Suspende	ed & Plaster ceilings



#### SILICONE LUBRICANT

CODE	DESCRIPTION
SL	500ml AEROSOL
Compress	ion fitting lubricating spray.



See page 20 for made-up options.



**TEFLON TAPE** 

CC	DE
TS	1



### THREADSEALER/ACTIVATOR

CODE	DESCRIPTION	
53.14	Threadseal, 10ml	
53.14	Threadseal, 50ml	
AT11	Activator, 200ml	

### **QUICK CONNECT COUPLINGS, AIR HOSE & HOSE REELS**



#### **210 SERIES COUPLINGS**

CODE	DESCRIPTION
A210-F	Coupler - 1/4" BSPF (a)
A210-14M	Coupler - 1/4" BSPM (b)
A210-38M	Coupler - 3/8" BSPM (c)
A210-12M	Coupler - 1/2" BSPM
A210-38T	Coupler - ¾" Tail (d)
A210-12T	Coupler - ½" Tail
A210-SAF	Coupler - Safety - 1/4" BSPF (e)
A2609	Connector - 1/4" BSPF (f)
A2608	Connector - 1/4" BSPM (g)
A2700	Connector - 3/8" BSPM (h)
A3948	Connector - 3/8" Tail (i)

#### **AIR HOSE**

Quality PVC and Rubber Air Hose Bore sizes: 10mm, 12mm, 20mm etc. (Available up to 100mm) Lengths: 20m, 30m, 100m etc.



CODE	DESCRIPTION
MAX-10PVC	10mm ID PVC Hose
MAX-12PVC	12mm ID PVC Hose
MAX-10R	10mm ID Rubber Hose
MAX-12R	12mm ID Rubber Hose





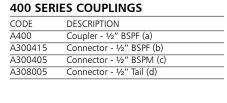
#### **380 SERIES COUPLINGS**

CODE	DESCRIPTION	
A380	Coupler - ¾" BSPF (a)	
A3809	Connector - 3/8" BSPF (b)	
A3807	Connector - 1/4" BSPM	
A3800	Connector - 3/8" BSPM (c)	
A3810	Connector - ¾" Tail (d)	



#### **PVC AIR HOSE SETS** c/w 210 coupling

CODE PVC 10m x 10mm MAX1010 PVC 20m x 10mm MAX2010





#### **RUBBER AIR HOSE SETS** c/w 210 coupling

CODE Rubber 10m x 10mm MAX1010R Rubber 20m x 10mm MAX1020R



**GBSN** Heavy Duty Stainless steel Worm Drive

2-Ear Clamps Stainless Steel Cobra



#### **PNEUMATIC TUBING**

A complete range of pneumatic tubing is available. 4, 6, 8, 10, 12 & 16mm. Blue, black, silver, red,

green, yellow, clear.

#### **INDUSTRIAL RECOIL HOSES**

CODE

RH8 8mm OD RH10 10mm OD RH12 12mm OD

#### **HOSE REELS**

A wide range of Hose Reels available including •Compact Units, •Reels to suit Polyurethane Hose, • Reels to suit Air Hose (as pictured), • Reels for other applications





#### AW1015 10mm ID Length: 15m 3/8" BSPF IN 3/8" BSPM OUT 240psi Max.

AW1215 12mm ID Length: 15m 1/2" BSPF IN 1/2" BSPM OUT 240psi Max.





LEI	-1:
TF۱	ΝM
IN	USE

#### MOUNTING BRACKETS

MOON	UIIING	BKACKE13	
CODE			
TFWM 1	5		
TFWM 2	0		
TEVV/V/ 2	5		



# COMPRESSION SYSTEM DRAIN OUTLETS

D.0 00.122.0
CODE
CSD/20/1/ <sup>1</sup> / <sub>4</sub>
CSD/20/2/ <sup>1</sup> / <sub>4</sub>
CSD/20/3/ <sup>1</sup> / <sub>4</sub>
CSD/20/1/3/8
CSD/20/2/3/8
CSD/25/1/ <sup>1</sup> / <sub>4</sub>
CSD/25/2/ <sup>1</sup> / <sub>4</sub>
CSD/25/3/ <sup>1</sup> / <sub>4</sub>
CSD/25/1/3/8
CSO/25/2/3/8



## AUTOMATIC DRAIN FILTER OUTLETS

TILILIK OUTLLTS
CODE
ADF/20/1/ <sup>1</sup> / <sub>4</sub>
ADF/20/2/1/4
ADF/20/3/1/4
ADF/20/1/3/8
ADF/20/2/3/8
ADF/20/3/3/8
ADF/25/1/ <sup>1</sup> / <sub>4</sub>
ADF/25/2/ <sup>1</sup> / <sub>4</sub>
ADF/25/3/1/4
ADF/25/1/3/8
ADF/25/2/3/8
ADF/25/3/3/8



# COMPRESSION SYSTEM DRIP LEG DRAIN OUTLETS

J		
CODE		
DLD/20/1/1/4		
DLD/20/2/1/4		
DLD/20/3/1/4		
DLD/20/1/3/8		
DLD/20/2/3/8		
DLD/25/1/1/4		
DLD/25/2/1/4		
DLD/25/3/1/4		
DLD/25/1/3/8		
DLD/25/2/3/8		
	DLD/20/1/\d DLD/20/2/\d DLD/20/3/\d DLD/20/1/\d DLD/20/1/\d DLD/20/2/\d DLD/25/1/\d DLD/25/2/\d DLD/25/3/\d DLD/25/1/\d DLD/25/1/\d	DLD/20/1/¼ DLD/20/2/¼ DLD/20/3/¼ DLD/20/1/¾ DLD/20/1/¾ DLD/20/2/¾ DLD/25/1/¼ DLD/25/2/¼ DLD/25/3/¼ DLD/25/3/¼



# AIR SUPPLY TEE WITH DRAIN

Mains air dump/drain. Install between compressor and factory mains.

and factory mains.	
CODE	
AST 20	_
AST 25	_
AST 32	_
AST 40	_



# WELDED SYSTEM DRAIN OUTLETS

CODE
WSO/20/1/ <sup>1</sup> / <sub>4</sub>
WSO/20/2/¹/4
WSO/20/3/1/4
WSO/20/1/3/8
WSO/20/2/3/8



### COMPRESSION SYSTEM

OUTLETS
CODE
CSO/20/1/ <sup>1</sup> / <sub>4</sub>
CSO/20/2/ <sup>1</sup> / <sub>4</sub>
CSO/20/3/1/4
CSO/20/1/3/8
CSO/20/2/3/8
CSO/25/1/ <sup>1</sup> / <sub>4</sub>
CSO/25/2/ <sup>1</sup> / <sub>4</sub>
CSO/25/3/1/4
CSO/25/1/3/8
CSO/25/2/%



## WELDED SYSTEM DRIP LEG DRAIN OUTLETS

DRIP LEG DRAIN OUTLETS
CODE
WDLD/20/1/ <sup>1</sup> / <sub>4</sub>
WDLD/20/2/ <sup>1</sup> / <sub>4</sub>
WDLD/20/3/ <sup>1</sup> / <sub>4</sub>
WDLD/20/1/3/8
WDLD/20/2/3/8
WDLD/25/1/ <sup>1</sup> / <sub>4</sub>
WDLD/25/2/ <sup>1</sup> / <sub>4</sub>
WDLD/25/3/ <sup>1</sup> / <sub>4</sub>
WDLD/25/1/3/8
WDLD/25/2/3/8

### **AIR TREATMENT**

Compressed Air contains impurities such as dust and dirt (approximately 80% of these pass through the compressor inlet filter), and water vapour is also present as humidity, concentrated eight times as compared to the air we breath.

These impurities combine with traces of compressor oil to form an abrasive sludge which wears and corrodes bearings and seals in pneumatic tools and equipment. For this reason it is imperative to include

Air Treatment in your system which will protect your equipment. We can assess and advise you as to your particular requirements, please refer to technical department.



#### **MINI AIR SERVICE UNITS**

CODE	DESCRIPTION
R55-2W	1/4" Regulator c/w Gauge (a)
F50-2W	¼" Manual Filter (b)
FD50-2W	1/4" Auto-Drain Filter
CFR-55-2W	1/4" Manual Filter/Reg c/w Gauge
CFDR-55-2W	1/4" Auto-Drain Filter/Reg
	c/w Gauge



#### **AIR FILTERS / REGULATORS**

CODE	DESCRIPTION
BCFR70-2W	1/4" Filter/Reg c/w Gauge
BCFR70-4W	½" Filter/Reg c/w Gauge
* Auto-Drain	Unit BD-130 add (per unit)



#### **AIR REGULATORS**

CODE	DESCRIPTION
R60-2W	1/4" Regulator c/w Gauge
R60-4W	½" Regulator c/w Gauge
R180M-6W	3/4" Regulator c/w Gauge
R180M-8W	1" Regulator c/w Gauge
R180-10W	1¼" Regulator c/w Gauge
R180-12W	1½ Regulator c/w Gauge



#### COALESCING FILTERS - 0.3 µm

	1
CODE	DESCRIPTION
BFC70-2W	1/4" Coalescing Filter
BFC70-4W	½" Coalescing Filter
BFC201-6W	3⁄4" Coalescing Filter
	1" Coalescing Filter
	1¼" Coalescing Filter
	1½" Coalescing Filter
* Auto-Drain	Unit BD-130 add (per unit)



### **GENERAL PURPOSE FILTERS**

CODE	DESCRIPTION
BF70-2W	1/4" Manual Filter
BF70-4W	½" Manual Filter
BF200-6W	¾" Manual Filter
BF200-8W	1" Manual Filter
BF200-10W	1¼" Manual Filter
BF200-12W	1½" Manual Filter
* Auto-Drain	Unit BD-130 add (per unit)



### MOUNTING BRACKETS

CODE	DESCRIPTION
K30-8	Wall Mount Kit for 70 Series (a)
KA30-04	Modular Connector Kit for 70 Series allows you to join units together (b)
A33-82	Regulator Wall Mount Bracket for 55 & 70 Series (c)

## **BLOWGUNS**

#### **BLOW GUNS**

Standard Blow Guns, Long Nozzle, Safety Tip, Rubber Tip, Flat Nozzle, Blow / Vacuum Venturi Effect, Reduced Pressure Safety Styles.

CODE		
124140101	Standard Blow Gun	(a)
124140125	Silent/Safety Blow Gun	(b)
124140112	Long Blow Gun, 300mm	(d)
124140113	Long Blow Gun, 600mm	
124140114	Long Blow Gun, 1000m	
12410026	Jet Airboy™ Blow Gun	(c)





# A full range of Push-in Fittings.

A wide range of Push-in Fittings are available to suit flexible tubing in 4mm, 6mm, 8mm, 10mm, 12mm, & 16mm.
Thread sizes: 1/8", 1/4", 3/8", & 1/2" BSP. Some common fittings are pictured, the range also includes multiple manifold outlets, isolating valve fittings, speed controllers, rotating fittings, check valves and more.

Phone for your specific requirements.

### **MAXAIR SYSTEM DESIGN GUIDELINES**

#### RECOMMENDED INSTALLATION PRINCIPLES

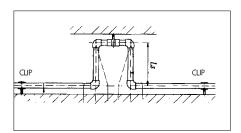
# THERMAL EXPANSION AND CONTRACTION AND PIPE CLIPS / PIPING LAYOUT

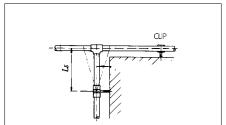
The coefficient of the thermal expansion and contraction of Maxair PE100 pipe may be taken as 0.18mm per metre per

Deg C. If pipework is to be subjected to thermal temperature change, expansion and contraction needs to be considered for during installation. Generally movement can be absorbed on changes of direction, elbows, etc. but on longer lengths the recommended installation principles as set out below should be adhered to. This movement is minimised if areas in which pipework is installed are heated or cooled and virtually eliminated in constant temperature areas.

#### **EXPANSION LOOPS**

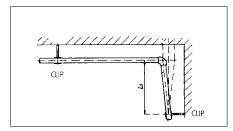
Expansion loops are recommended at intervals of approx. 30-40m on long runs. Suggested leg lengths are as per table below. It is general practice for loops up to AIR 63 to span between purlins. Space constraints may also need to be considered. Please contact our technical department for accurate sizing if required.





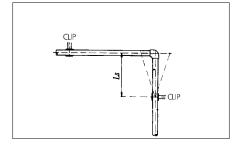
#### **PRE STRESSING**

Pipework can be prestressed, and particular note should be made of this when installation is carried out in cold conditions.



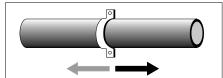
#### Suggested L s Length (Metres)

20	0.5	
25	0.6	
32	0.7	
40	0.9	
50	1.0	
63	1.2	
90	1.8	
110	2.0	



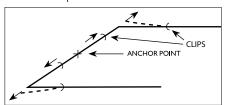
#### PIPE CLIPS

Free axial movement of pipework should be allowed with any form of support. Pipework should be able to move on elbows, tees, etc.

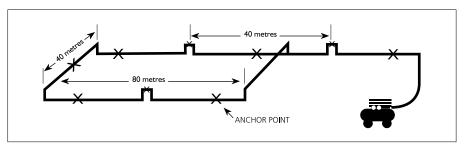


#### **ANCHOR POINTS**

Anchor points are clips which don't allow free axial movement. Anchor points can be used as shown to evenly spread the effects of expansion and contraction.



Below: Working example of Ring Main showing typical expansion loops and anchor point positions for this schematic.



#### OPERATING PARAMETERS OF MAXAIR PE100

OPERATING TEMP °C DESIGN LIFE YEARS		PERMISSIBLE WORKING PRESSURE			
		BAR	KPA	PSI	
- 20° TO 20°	50	16	1600	235	
30°	50	14	1400	205	
30° 40°	50	12	1200	175	
50°	50	10.2	1020	150	
60°	50	8.8	880	130	
ABOVE RATINGS HAVE AN ADDITIONAL SAFETY FACTOR OF 2:1					
Fluid at 20° C	50	25	2500	360	

#### **SHORT TERM TEMPERATURE RISES**

Temperatures quoted relate to constant temperature over a period of 50 years, rather than short term peak temperatures. Maxair PE100 can safely handle short term peaks in compressed air temperature up to 95deg C. Circumstances vary and each high temperature application should be checked with your distributor.

#### **SAFETY FACTOR**

At all rated pressures for compressed air as above Maxair PE100 is manufactured with a safety factor of 2. On a typical installation this gives an effective safety factor of 4 at 800 kpa/20deg C /50 years.

#### **GUARANTEE**

Maxair is manufactured in accordance to AS 4130/AS 4131 and is accordingly guaranteed for 50 years provided recommended design, installation and operating practices are adopted. As established from long term testing, Maxair may be operated continuously under pressure for up to 200 years at 20deg C.

#### **CONDENSATE DRAINAGE**

Ideally, condensate should be removed as soon as possible in the system. A suitably sized compressed air dryer after the Air Receiver is the recommended method for removing condensate from the air supply. If high, short term peaks of dry air are required, then the dryer would be better installed prior to the Receiver. The good thermal characteristics of Maxair are a

further advantage. The system should be designed to minimise or eliminate harmful condensate from being discharged into air tools and equipment when dryers are

Various methods are suitable for this purpose.

- -Sloping of horizontal pipe at a slight gradient to strategically positioned drainlegs.
  -Outlet droppers to come off the top of the pipework to avoid precipitated condensate being discharged in the airstream.
- In most instances however the recommended method is to install the dropper from the bottom of the branch or mainline with a short extra length of pipe extending below the outlet with a drain valve (see schematic illustration P2).

#### **HAZARDOUS AREAS**

**A**. Corrosive chemicals – Maxair has excellent resistance to a broad range of chemicals and is ideal for use in many areas where corrosive liquids or atmosphere may contact the pipe. Compression fittings come standard in polypropylene construction with O-Rings of nitrile rubber and Split Grip Rings in Polyacetal. The Nitrile gives excellent resistance to oils in the compressed air. For aggressive chemical applications CPVC Split Rings and O-Rings in EPDM or viton are available. Fusion welded fittings provide a further degree of safety in these areas. User should verify compatibility of components with their application. Extensive compatibility charts

are available. Resistance to specific chemicals should be checked with Technical Department.

#### B. Explosive or ignitable atmosphere.

Compressed air can carry static charges which may accumulate. The user/customer/purchaser is responsible to identify any potential hazardous areas and to take necessary measures or precautions for complete safety. Information on protective measures is available with advice on your specific application.

#### UNDERGROUND PIPEWORK

Maxair pipe is ideal for underground installation with its high strength characteristics and ability to absorb ground movement. It is recommended to lay pipework in sand, grade and install drain valves in strategic positions.

### HEAT SOURCES AND EXTERIOR PIPEWORK

Maxair is suitable for outdoor installation Industry best practice of shielding equipment and pipework from direct heat sources should be adopted to prevent excessive heat buildup. In the event that pipe is exposed to direct sunlight a surface layer forms over time creating a barrier which impedes further U.V. effects. As with all Polymer pipe systems exposed to direct U.V., there maybe some reduction of impact resistance over time however longevity and pressure rating of Maxair is not affected.

## PIPE WEIGHTS COMPARISON

MAXAIR		GALVANI	SED MILD STEEL	COPPER	
SIZE	WEIGHT Kg/m	SIZE	WEIGHT Kg/m	SIZE:	WEIGHT Kg/m
AIR 20	0.15	1/2"	1.45	1/2"	0.35
AIR 25	0.24	3/4"	1.90	3/4"	0.70
AIR 32	0.40	1"	2.97	1"	1.09
AIR 40	0.59	1 1/4"	3.34	1 1/4"	1.38
AIR 50	0.92	1 1/2"	4.43	1 1/2"	1.67
AIR 63	1.45	2"	6.17	2"	2.25
AIR 90	3.04	3 "	10.1	3 "	4.23
AIR 110	4.51	4"	14.4	4"	5.68

#### FITTINGS FOR SOCKET FUSION WELDING

Pipe and fittings are welded by means of socket fusion according to AS2033-1980. Fittings comply with DIN16963. These specially engineered fittings, in dimensions and tolerances to co-ordinate with pipe, are heated simultaneously with pipe then joined to give an extremely strong weld of high pressure capability, fusing pipe and fitting into one integral piece. Made in Europe from PE100 expressly for compressed air pipe systems.

#### COMPRESSION O-RING TYPE FITTINGS

Made under ISO 9002 Quality System. Standards Mark Licence No 1237-AS1460. Air seal is provided by a heavy duty O-Ring and pipe is securely held by split grip ring and nut. Extensive research and experience has confirmed our confidence in the range of fittings offered being of the highest quality and reliability. These fittings are approved by the manufacturer for compressed air applications and, whilst they are conservatively rated

at PN16 (16 bar)/20Deg C/50 years for other applications, with a view to an additional safety factor for compressed air, we recommend these fittings for installations subject to conditions not exceeding 10 bar pressure at constant average temperature of 30Deg C. The majority of installations would be expected to average less than these conditions. For conditions above these, socket fusion welded fittings should be considered

### **MAXAIR INSTALLATION INSTRUCTIONS**

# Compression Fittings AIR20mm to AIR63



1. Cut pipe to length with appropriate cutter (PC...) for a swarf-free finish.



2. Chamfer with appropriate chamfering tool. (CHAM...) This may not be necessary for AIR20, 25, 32.



3. Remove nut and conical grip ring from fitting and mount on pipe in the same order with the large end of the grip ring facing fitting. Lubricate, see notes\*, \*\*.



4. Insert the pipe into fitting with a twisting motion until it passes through the "0" ring and meets the internal shoulder. Ensure that grip ring is touching the fitting.



5. Screw and tighten the nut onto the fitting firmly by hand. The larger pipe sizes 40mm & upward will need tightening with the appropriate wrench (NW1) however, do not use excessive torque.

# Compression Fittings AIR90 to AIR110mm



- 1. Cut pipe to length and chamfer.
- 2, Remove nut, conical grip ring, bushing and "0" ring and mount on pipe in the same order leaving out grip ring.
- 3. Lubricate pipe end and inside of fitting.(See note below\*\*)



4. Insert pipe into the fitting until it meets the internal shoulder.



5. Bring up the "0" ring and bushing and tighten nut until they are fully in place.



6. Unscrew nut, open grip ring and put on pipe with the large end touching the bushing.



7. Tighten nut with the appropriate wrench (NW2) taking care not to use excessive force.

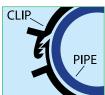
\*Fitting may be supplied with a tapered seal instead of O-Ring, -in this case nut need not be removed, - simply chamfer pipe, lubricate, fully insert, and tighten.

\*\* Lubricate with silicone spray, soapy water or vaseline except on applications where air will be used for spray painting DO NOT use penetrating fluids such as WD40, 5-56, Penetrene etc.

#### **CL Pipe Clips Installation**



1. Mount pipe clip using appropriate fastener. In vertical mounting situations (horizontal pipework) ensure female ratchet is uppermost as shown below.





2. Pull clip apart and put the pipe in.



3. Press the pipe into clip towards the clip base and set to appropriate setting.



To remove pipe from clip push the 2 bands sideways in opposite directions to disengage.

Pipe Support spacings
HORIZONTAL SUPPORT SPACING

HORIZONIAL SOFFORT SFACING				
PIPE SIZE	UP TO 25°C	UP TO 50° C		
AIR20	700	600		
AIR25	900	750		
AIR32	1200	900		
AIR40	1400	1100		
AIR50	1700	1300		
AIR63	2000	1550		
AIR90	2300	1800		
AIR110	2600	2000		

Spacings may need to be altered for various ambient temperatures encountered. Refer to Technical Department. For vertical fixing, the spacings may be increased approximately 20%. Spacings may also be increased using Continuous support Channel, see P17. Spacings will need to be decreased if pipework is conveying fluids.

# Electro Fusion Welding – Recommended for AIR90 and AIR110

Available in smaller sizes if required



- 1. Cut pipe to length using appropriate cutters
- 2. Use scraper UT110 to remove oxide layer from pipe for full fitting insertion length to approximate depth of 0.3mm.



3. Wipe surfaces to be welded with Welding Wipes (EFPW) to remove dust etc, and allow cleaner to evaporate.



4. Assemble pipe and fitting making sure pipe is FULLY inserted. Clamps may be attached to stabilise joint during welding.



5. Connect welder leads onto fitting terminals. Set correct weld time (marked on each fitting). Follow instructions for particular welder. Press start for weld cycle to commence. Allow to cool, time is marked on each fitting.



6. Rising melt indicators confirm successful completion of weld. When Weld cycle is completed, allow assembly to cool without any movement or strain.

#### WELDING GUIDELINES.

Socket Fusion and Electro Fusion welding is a quick and simple operation for a joint of the highest integrity.

#### **SOCKET FUSION**

Heating element socket fusion to welding guideline AS 2033-1980. Fittings for socket fusion welding comply with DIN 16963. Weld surfaces must be clean and dry. Welding machine must be up to temperature 230° - 250° C before commencing. Avoid cold windy conditions. Do not realign joint after adjusting time see table. Do not overscrape pipe - interference fit must be retained. Do not twist pipe into fitting when fusing.

# Socket Fusion Welding Time/Temperature Chart

Pipe OD mm	Pre Heating Sec.	Adjusting Sec.	Cooling Min
20	5	4	2
25	7	4	2
25 32 40 50	8	6	4
40	12	6	4
50	18	6	4
63	24	8	6
90	40	8	6
110	50	10	8

### **ELECTRO FUSION**

Fittings for electro fusion comply with AS1129 and carry a standards mark licence No 2018 under a Quality Assurance System in accordance with ISO 9002.

The fittings incorporate a resistor in one of the terminals which is specific to that fitting. The automatic control box reads the resistor and sets and welds the correct time, avoiding operator error. Fittings are also labelled for barcode reading and manual setting times. Rising melt indicators confirm successful completion of weld. IMPORTANT: Do not allow movement in the joint until cooling period has been completed. In some cases clamps may be required. Ensure continuous electricity supply during weld cycle.

## Socket fusion Welding Instructions AIR20 to AIR63



1. Turn on Welder SFHM. Do not attempt welding unless tool is up to temperature (250°C). The light will flash on/off with thermostat control when temp. is correct. 2. Cut pipe to length required with (PC...) cutters for a swarf free finish.



3. Clean pipe & fitting. Use scraper (WPS...) to remove oxide layer from pipe and ensure correct tolerance. Welding wipes (EFPW) may be used if required.



4. Simultaneously insert pipe and fitting onto socket and spigot to full depth without twisting. Hold for correct time as per table 'Pre-heating seconds' (left) .

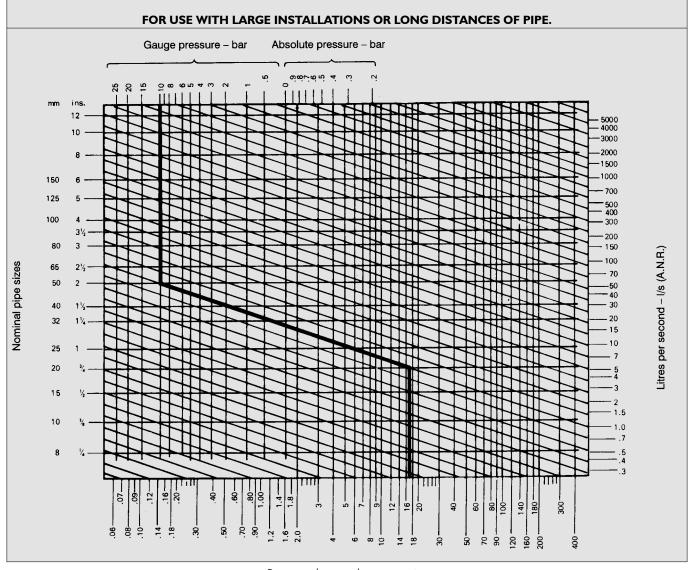


5. Remove pipe & fitting from heating element, immediately insert pipe into fitting without twisting.



6. Check alignment within 'adjusting seconds' as per table (left). During cooling avoid mechanical strain or movement on welded joint.

### **COMPRESSED AIR FLOW CHART**



Pressure drop - mbar per metre

Note: A.N.R. (Atmosphere Normale de Reference) Standard Reference Atmosphere ISO R554 - 20degC 65% Relative Humidity 1013 mbar

Conversion: 1mbar=0.1 kpa 11/s=2.1191cfm

#### How to use the compressed air flow chart.

Four quantities are involved in the use of this chart, these being air pressure, rate of flow, pipe size and pressure drop. Any one of these can be determined providing the remaining three are known.

#### PROBLEM I:

Air initially at 10 bar is being transmitted at a rate of 60 1/s free air through 20mm pipe. What will be the pressure drop due to friction through 30 metres of pipe?

#### **SOLUTION:**

(This example is plotted on the chart) From the point representing 10 bar at the top of the chart proceed down vertically to intersect with the horizontal line representing 60 1/s on the right hand scale. Proceed diagonally downwards, parallel to the guide lines to intersect the

horizontal line representing 20mm on the left hand side scale. From this point proceed vertically to the pressure drop scale on the bottom of the chart and take the reading. The pressure drop is found to be approximately 17 mbar per metre of pipe or 510 mbar (0.5 bar) per 30 metres of pipe.

#### PROBLEM 2:

10 1/s of free air is required at a pressure of 4 bar with a maximum allowable pressure drop of 140 m mbar per 30 metres of pipe. What would be the recommended pipe size for this application?

#### **SOLUTION:**

From the point representing 4 bar on the top axis of the chart proceed down vertically to intersect the horizontal line rep-

resenting 10 1/s on the right hand scale. Proceed diagonally, parallel to the guide lines to intersect the vertical line from the bottom scale representing the allowable pressure drop of 140 mbar per 30 metres of pipe (Read 140/30 = 4.5). From this intersection point proceed horizontally to the left hand side of the chart. The point falls between 10mm and 15mm pipe sizes. The correct selection therefore, is15mm pipe.

# Breathing and Medical applications

Maxair is suitable for breathing air and medical applications, provided Technical Department recommendations are adopted. It is the user's responsibility to provide and maintain supply air at a suitable level of purity for these applications.

#### Storage and transport

Pipe should be stored and transported straight and true.

#### Shipping Weights.

AIR20	0.9 Kg / 6m length	
AIR25	1.4 Kg / 6m length	
AIR32	2.4 Kg / 6m length	
AIR40	3.5 Kg / 6m length	
AIR50	5.5 Kg / 6m length	
AIR63	8.7 Kg / 6m length	
AIR90	18.2 Kg / 6m length	
AIR110	27 Ka / 6m lenath	

#### Suitability for other applications.

Products in this technical manual are also suitable for Chilled Water, Warm Water, High pressure Fluid to 25 bar, Inert Gasses, Chemical Piping, Vacuum Piping.

Please refer to Technical Department for details.

### **TECHNICAL SPECIFICATIONS FOR MAXAIR PE100 SYSTEMS**



- 1.1 The Compressed Air Reticulation Pipe shall be of non-metallic, blue in colour, corrosion free, High Density Polyethylene (HDPE) PE100 conforming to AS/NZS 4130/4131 and be made to an accredited AS 3902 Quality Control System and commercially known as MAXAIR PE100.
- 1.2 The pipe shall be rated at 16 Bar / 20degC / 50 year design life and 8.8 Bar/60degC / 50 year with an applied safety factor of 2:1.
- 2.1 All fittings shall be Socket Fusion, Electro Fusion or Compression style fittings which comply with Australian/New Zealand Standards as listed below and commercially known as MAXAIR.
- 2.2 Socket Fusion fittings shall be Blue PE100 type which shall be welded to AS/NZS 2033 and made to DIN 16963.
- 2.3 Electro Fusion fittings shall comply with AS/NZS 4129 and carry a Standards Mark Licence No. 2018 under Quality Assurance System in accordance with ISO 9002.
- 2.4 Compression fittings shall be either 'O' Ring or tapered seal to comply with AS/NZS 4129 and carry a Standards Mark Licence No. 1237 in accordance with ISO 9002.
- 3.1 Fixing of pipe shall be of a type and spacing approved for use on HDPE PE100 as per MAXAIR Technical Manual.

## **TRADING TERMS**

Whilst due care and revision has been taken in preparation of this Manual, the Company takes no liability for accuracy of information contained herein.

As part of a process of continual improvement, the Company reserves the right to upgrade or modify components from the description in this manual at any time without notice. No part may be reproduced in any way without written permission from the Company.

All Sales are subject to the Company's Terms and Conditions of Sale. E & OE.

All prices exclude GST and freight.





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