

# Quickair™

■■■■■■ E-SERIES

Revolutionary push in fittings for Aluminium and Pex Tubes

Size Range : 20, 25, 32 mm

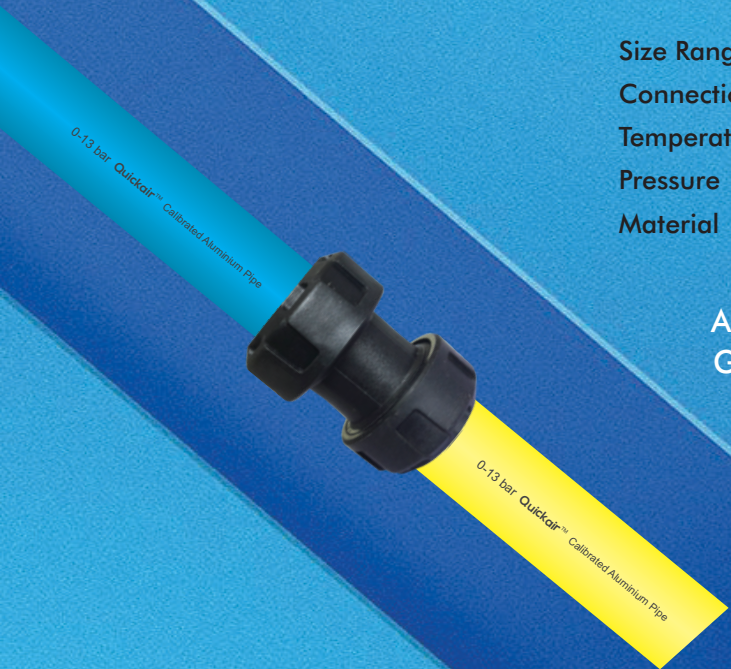
Connections : PUSH FIT

Temperature : up to 95°C

Pressure : up to 13 bar

Material : Engineering Plastic

Application for  
Gases, Liquids  
& Vacuum





# Quickair™

## E-Series Aluminium Tubes

PART NO.	D1 (mm)	PN (bar)	Meter	Thickness (mm)	Weight (Kg/m)
AP24200E	20	20	6	1.25	0.199
AP24250E	25	20	6	1.50	0.299
AP24320E	32	20	6	1.60	0.412



### Field of Applications:

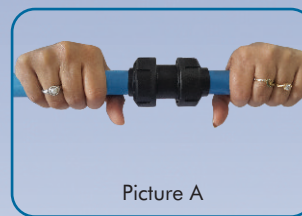
Compressed air, nitrogen,  
Vacuum, CO<sub>2</sub>

For other applications Please contact

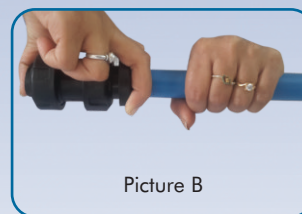
### FEATURES & BENEFITS

- No corrosion
- Powder Coated
- 20, 25, 32mm dia pipe sizes
- Re-usable fittings
- Luminar Flow
- Minimum Pressure drop
- Easy to install
- Light Weight

### Simply push-fit Concept



Quickair™ metal fitting is similar to one touch pneumatic push fitting concept. The advantage of this "Push-Fit" concept over other is modular piping systems. As there is nothing to tighten but only "simply push" the tube inside the fitting as shown in Picture A (up to 63mm)



While removing the tube from the fitting just need to push "removing clip" on the tube and press towards the fitting removing clip will disengage the grab-ring and will release the tube from the fitting. Picture B



Integral condensate retention design for superior flow without pressure drops.

### TECHNICAL SPECIFICATION Quickair™ Piping System

Application	Compressed air, vacuum, nitrogen, Argon (other fluids & gases please contact Us)
Pressure	Max 13 bar
Vacuum	29.32" hg
Temperature	-20° C to 200 C°
Design Standard	ASME B 31.1

### Materials of Construction of Aluminium pipe

Alloy	Aluminium Alloy 6060 T5
Tolerance	Tolerance Std. IS2763, IS3965, EN-755-2
Color	Blue coated (RAL 5012)
Surface finish	60 microns

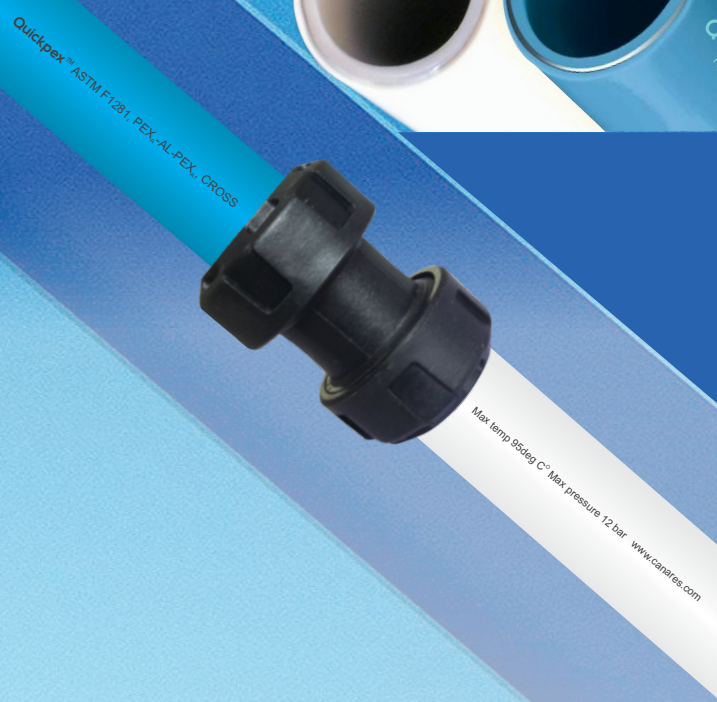


# Quickpex™

## Piping Systems



DESCRIPTION	PHOTO	PART NO.	SIZE
QUICKPEX PIPE PEX <sub>A</sub> -AL-PEX <sub>A</sub>		QPW2016	20mm
		QPW2520	25mm
		QPW3226	32mm
QUICKPEX PIPE PEX <sub>A</sub> -AL-PEX <sub>A</sub>		QPB2016	20mm
		QPB2520	25mm
		QPB3226	32mm

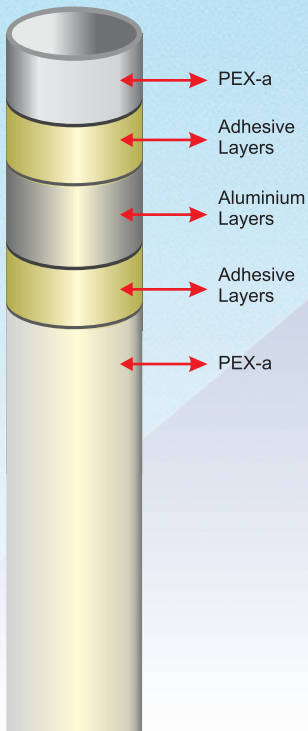


### PEX is Cross linked polyethylene

PEX is modified polyethylene material typically high density polyethylene, Change properties from HDPE to PEX. The cross link polyethylene results in improved performance such as elevated temperature, strength, chemical resistance, ECSR resistance & Long term stability.

### Field of Applications:

- ▶ Cold & Hot water
- ▶ Diesel & Petroleum product
- ▶ Under floor heating
- ▶ Solar water heating
- ▶ Compressed Air lines
- ▶ Inert Gases
- ▶ Vacuum Industries



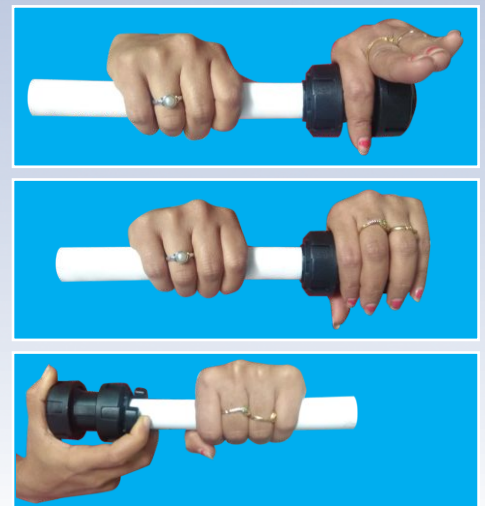
### FEATURES & BENEFITS

- ✓ **Low Installation Costs**  
Quickpex™ reduces costs on a typical installation, for materials and labour and transportation costs when compared to traditional materials.
- ✓ **Ease of Handling**  
Quickpex™ is 75% lighter than the equivalent diameter of copper and SCH 40 carbon steel.
- ✓ **Quick Removable Connections**  
All joints are Push in fit and can be quickly assembled or disassembled. Easy on-site modifications and repairs can be made.
- ✓ **Lower Operating Costs**  
Due to Quickpex™ advantages over metal systems, it costs you less time, labour and money to keep a Quickpex™ system in optimal condition.
- ✓ **Smooth Interior**  
Less friction means lower pressure drops and higher flow rates. This may allow for smaller pipe sizes to be used.

### TECHNICAL SPECIFICATIONS

Outer Diameter (mm)	20	25	32
Inner Diameter (mm)	16	20	25
Wall thickness (mm)	2	2.5	3.0
Aluminium thickness (mm)	0.23	0.23	0.23
Max. working temperature (°C)	95	95	95
Max. working pressure (bar)	12	12	12
Thermal conductivity (0.45w/mk)	0.45	0.45	0.45
Linear expansion (0.25mm/mk)	0.25	0.25	0.25
Minimum tensile strength of adhesive layer(N/10mm)	30	30	30
Surface roughness of inner pipe (μ)	7	7	7
Degree of cross linking (%)	70	70	70
Weight (Kg/m)	0,128	0,198	0,298
Volume (L/m)	0.201	0.310	0.531
Design Standard	ASTMF 1281		

### Quickpex INSTALLATION



# Quickair E-SERIES ENGINEERING PLASTIC FITTINGS



PIPE TO PIPE  
CONECTOR

PART NO.	D1 (mm)	L1 (mm)	L2 (mm)	PN (bar)	Weight (KG)
QPES2020	44	73	33	20	0.113
QPES2525	51	76	35	20	0.133
QPES3232	65	79	38	20	0.187



EQUAL TEE

PART NO.	D1 (mm)	L1 (mm)	L2 (mm)	PN (bar)	Weight (KG)
QPET2020	44	109	33	20	0.183
QPET2525	51	112	35	20	0.19
QPET3232	65	130	38	20	0.316



EQUAL ELBOW

PART NO.	D1 (mm)	L1 (mm)	L2 (mm)	PN (bar)	Weight (KG)
QPEE2020	44	55	33	20	0.123
QPEE2525	51	56	35	20	0.146
QPEE3232	65	65	38	20	0.215



MALE  
CONNECTOR

PART NO.	D1 (mm)	L1 (mm)	L2 (mm)	PN (bar)	Weight (KG)
QPMT2005	44	62.5	33	20	0.14
QPMT2007	44	62.5	33	20	0.14
QPMT2505	51	65.5	35	20	0.152
QPMT2507	51	65.5	35	20	0.152
QPMT2510	51	65.5	35	20	0.152
QPMT3010	65	71	38	20	0.189
QPMT3012	65	71	38	20	0.189



DROPLETS  
Tube To Tube

PART NO.	D1 (mm)	D2 (mm)	L1 (mm)	L2 (mm)	PN (bar)	Weight (KG)
QPEE2520	25	20	75	39	20	0.26
QPEE3220	30	20	96	54	20	0.32
QPEE3225	32	25	96	54	20	0.35



DROPLETS  
Female Thread

PART NO.	D1 (mm)	D2 (mm)	L1 (mm)	L2 (mm)	PN (bar)	Weight (KG)
QPEE2505	25	0.5"	75	39	20	0.26
QPEE3205	30	0.5"	96	54	20	0.32
QPEE3205	32	0.5"	96	54	20	0.35



# Quickair E-SERIES ENGINEERING PLASTIC FITTINGS



END CAP

PART NO.	D1 (mm)	L1 (mm)	L2 (mm)	PN (bar)	Weight (KG)
QPEC2020	44	47	33	20	0.14
QPEC2525	51	49	35	20	0.152
QPEC3232	65	50	38	20	0.189



FEMALE THREADED TEE

PART NO.	D1 (mm)	L1 (mm)	L2 (mm)	PN (bar)	Weight (KG)
QPFT2005	44	109	33	20	0.183
QPFT2505	51	112	35	20	0.19
QPFT2507	51	112	35	20	0.19
QPFT3205	65	130	38	20	0.316
QPFT3207	65	130	38	20	0.316



TWO WAY FEMALE DROPLET

PART NO.	D1 (mm)	A (mm)	B (mm)	C (mm)	D (mm)	PN (bar)	Weight (KG)
TD12 2505	1"x1/2"	82	77	45	50	20	0.140
TD12 3205	1 1/4"x1/2"	86	77	45	50	20	0.150



REDUCER

PART NO.	SIZE	D1 (mm)	D2 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	PN (Bar)	Weight (KG)
RD242520	25X20	42	36	45	43	92	20	0.145
RD243220	32X20	55	36	51	43	98	20	0.230
RD243225	32X25	55	42	51	45	98	20	0.235



BALL VALVE

PART NO.	D1 (mm)	L1 (mm)	PN (bar)	Weight (KG)
QPBV20	20	135	20	1.528
QPBV25	25	168	20	1.722
QPBV32	32	199	20	2.00



SINGLE WAY WALL BRACKET

PART NO.	D1 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	PN (bar)	Weight (KG)
WB24012005	20	120	42	65	20	0.525
WB24012506	25	120	42	65	20	0.550



WALL BRACKET  
1/2" OUTLET - 2WAY

PART NO.	D1 (mm)	D2 (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	PN (bar)	Weight (KG)
WB242005	68	36	140	40	79	43	20	0.550
WB242505	68	42	140	40	79	45	20	0.570

# Quickair E-SERIES ENGINEERING PLASTIC FITTINGS



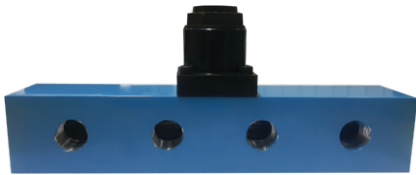
REINFORCEMENT  
BUSH

PART NO.	ØD(mm)	L1 (mm)	Weight (KG)
QPPRB20	19	22	0.001
QPPRB25	24	25	0.002
QPPRB32	31	26	0.004



CLIPS

PART NO.	ØD(mm)	ØC(mm)	H1 (mm)	H (mm)	K (mm)	L (mm)	Weight (KG)
CL11 2000	20	9	35	54	30	36	0.015
CL11 2500	25	9	35	58	30	42	0.018
CL11 3200	32	9	35	65	30	54	0.023



MANIFOLD

PART NO.	D1 (mm)	D2(mm)	BSP	L1 (mm)	PN (bar)	Weight (KG)
MF24 2005	20	36	1/2"	220	20	0.800
MF24 2505	25	42	1/2"	240	20	0.780

## TOOLS



DEBURRING TOOL

PART NO.	Size
DB110000	20mm to 8"



TUBE CUTTER

PART NO.	Size
TC110100	26-63mm

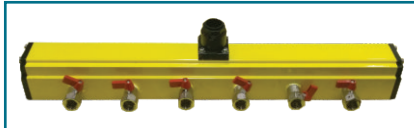


CHAMPERING TOOL

PART NO.	Size
CT11 0100	26-63mm

# Quickair E-SERIES ENGINEERING PLASTIC FITTINGS

## SPECIAL PRODUCTS



### INERTGAS MANIFOLD

PART NO.	SIZE	Outlets
GM321204	1 1/4" (32)	4
GM321206	1 1/4" (32)	6



### INERTGAS MANIFOLDS INBUILT VALVE

PART NO.	SIZE	Outlets
GMIBV321204	1 1/4" (32)	4
GMIBV321206	1 1/4" (32)	6



### 3 PEACE BALL VALVE WITH FITTINGS

PART NO.	SIZE	SIZE
BF242007	20mm	3/4"
BF242510	25mm	1"
BF243212	32mm	1 1/4"



### COMPRESSED AIR MANIFOLD

PART NO.	SIZE	Outlets
CAMPI2504	1" (25)	4



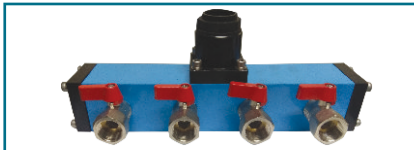
### FEMALE THREADED INLINE BALL VALVE

PART NO.	SIZE
INBVF2007	3/4" (20)
INBVF2510	1" (25)



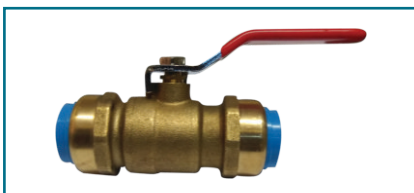
### 3 PIECE INLINE MALE BALL VALVE WITH FITTINGS

PART NO.	SIZE	SIZE
BF24M2007	20mm	3/4"
BF24M2510	25mm	1"
BF24M3212	32mm	1 1/4"



### COMPRESSED AIR MANIFOLD

PART NO.	SIZE	Outlets
CAMIBV2504	1" (25)	4



### INLINE BALL VALVE

PART NO.	SIZE
INBV20	3/4" (20)
INBV25	1" (25)



### MINI BALL VALVE

PART NO.	SIZE
MBVMF050	1/2"



### 3 PIECE INLINE FEMALE BALL VALVE WITH FITTINGS

PART NO.	SIZE	SIZE
BF24F2007	20mm	3/4"
BF24F2510	25mm	1"
BF24F3212	32mm	1 1/4"

Compressed Air → Compressed Air → Compressed Air →

## TESTING PROCEDURE (ASME B31.3)

- ▶ The gas test pressure shall not be less than 1.2 nor more than 1.5 times the design pressure of the piping system. It shall not exceed the maximum allowable test pressure of any Non-Isolated component.
- ▶ The pressure in the system shall gradually increased to not more than 1/2 of the test pressure, the pressure shall be continuously maintained for a minimum time of 10 minutes.
- ▶ Than it shall be reduced to the lower of design pressure or 100psig (700kPa[Gage]) and held for such time as may be necessary to conduct examination for leakage. for leak test by soap bubble or equivalent method shall be made of all joint and connections.



## Material of Construction of Fittings

Size	20-63mm (20, 25, 32, 40, 50, 63)
Body	Aluminium / CF8/CF8M
Caps	Engineering Plastic
Oring	HNBR/EPDM/VITON/FKM

Size	3 - 8 inches (3", 4", 6", 8")
Body	Aluminium / CF8/CF8M
Oring	HNBR/EPDM/VITON/FKM





# Canares Engineering Company

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Phone : 080 2357 8010 / 2357 8012 / 2357 8014 / 2357 8016

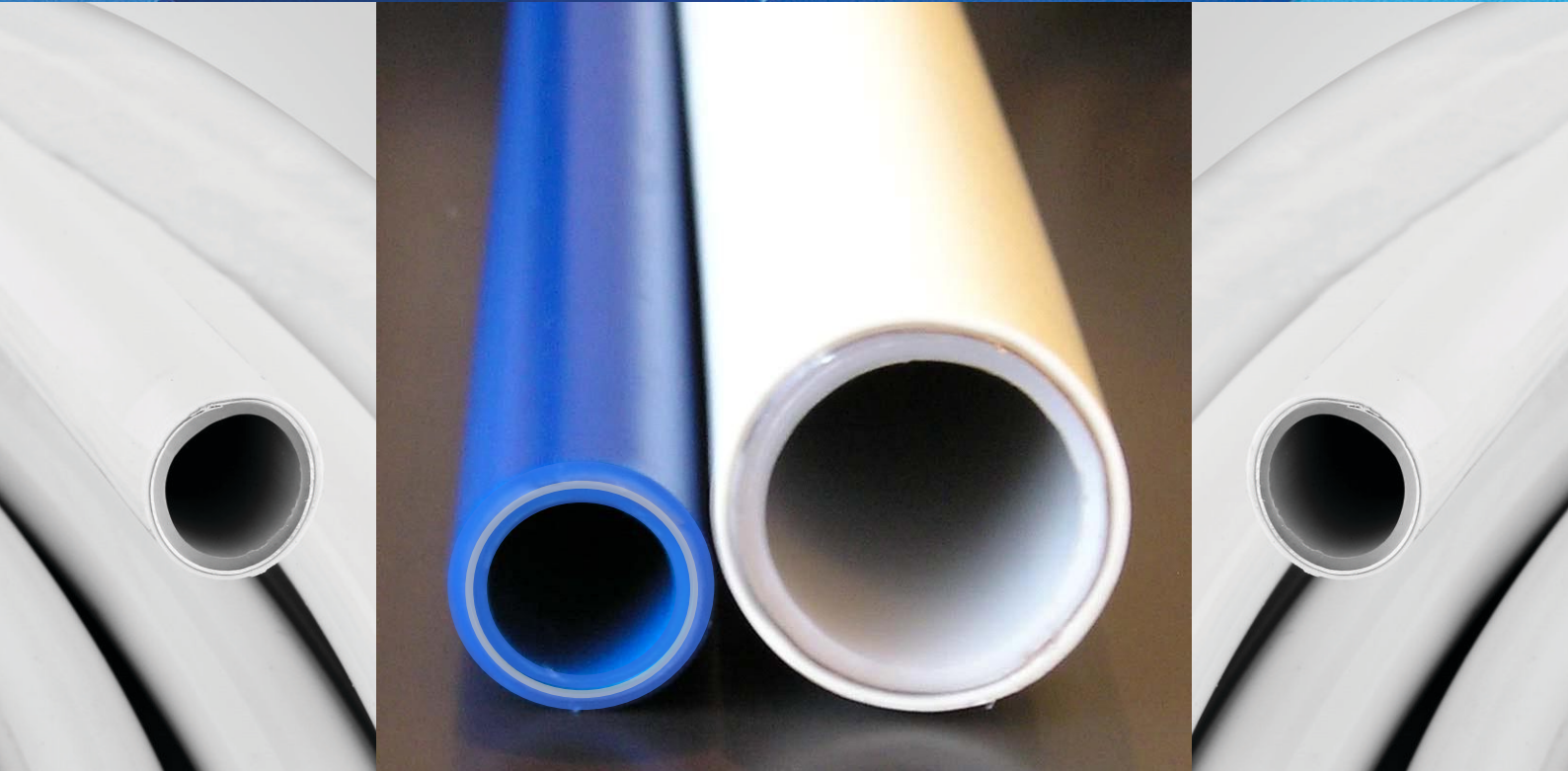
Toll Free No: 1800 4258014

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[www.canares.com](http://www.canares.com)



Quickpex™ maintains a policy of ongoing product improvement.  
This may result in modifications of features and/or specifications without notice.

**Distributor :**

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