

TECHNICAL

GENERAL :

AlWasail fittings are manufactured from tough engineering material and are designed to withstand UV-radiation, corrosion, severe environmental condition, pressure and temperature mechanical and hydraulic loads etc.,

Our fittings are supplied in a wide range of sized and is suitable for use with a wide variety of Polyethylene and other pipes with different wall thicknesses.

We are fully equipped to offer

"TOTAL SOLUTIONS FOR YOUR PIPING SYSTEMS REQUIREMENTS." Reduced installation costs through troublefree quick assembly and their suitability for reuse are outstanding features. Our fittings have a wide application field: Irrigation, Water Industries and telecommunication, minings, etc.,

One of the major benefits of AlWasail polyethylene pipes are the ability to use one of the following methods of joint. This gives a great deal of flexibility is allowing for varying installation conditions and the skill and equipments of the installers.

COMPRESSION FITTINGS :

Design Features :

Polypropylene compression fittings provide the simplest and most economic solution that ensure fast and safe connection and their suitability for reuse are its outstanding features.

All Compression fittings are available for PE pipe from 16mm to 125mm outside diameter. They are easy to use and donot required specially skilled operatives to install.

AlWasail compression fittings are designed to confirm with pipe manufactured to UNI, ISO 161/1, ISO4437, DIN 8074, DIN 19537, AS and SAS Draft No. 5208 and others.

Compression fittings consists of:

- (i) Body
- (ii) Lock Nut
- (iii) Grip/Split Ring
- (iv) Thrust ring / Bushing
- (v) O' Rings

Material used

(i) Body and Lock Nut :

Body and lock nut are made of polypropylene. It has greater rigidity and heat resistance and low moisture absorbency.

(ii) Grip / Splits rings :

Grip rings are made of polyacetal which is a strong, hard, highly crystalline thermoplastic and is known as engineering plastic. Polyacetal has high melting point, excellent creep resistance and is highly chemical resistant. The axial floating Grip ring compensates pull stress or thermal expansion.

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(iii) Thrust ring / Bushing

Bushings are made of High density polyethylene (HDPE 80064). The characteristics of PE are chemical resistance to solvents, acids and alkalines, toughness and flexibility.

(iv) 'O' Rings :

'O' Rings are made of styrene butadiene-rubber (SBR). The independent 'O' Ring can be removed from the coupling-body and a push ring compresses it, adjusting the seal compression on the pipe. So it's also possible to assemble pipes with elliptical features and small mistakes in respect to the nominal dimension.

Compression Flanged Adaptor:

In addition to Compression fittings components, flanged adaptors have a metal ring 8mm thick, covered by a layer of Chromium pr Polypropylene backing Ring.

Specifications :

Nominal working pressure	:	PN 16 - PN 10 for items marked with (□)
	:	(Maximum pressure at 20Deg C temperature)
Threaded connection	:	BSP
Maximum temperature	:	Polypropylene : 100 c
	:	Polyacetale : 80 c
Dimensions and features	:	According to DIN-ISO-UNI-SAS-AS and others
Effect on water quality	:	All materials are suitable for use in contact with drinking water
Spare Parts	:	All parts are available on customer request
Packing	:	Standard carton box size

CODE	TYPE	L CM	B CM	H CM	VOLUME M ³
S	Small	40	30	30	0.036
M	Medium	60	40	25	0.06
L	Large	60	50	40	0.12

Characteristics :

Max. Operating Pressure		0-30	0-50	60	70	80
Fitted with water hammering dampers	kg/cm ²	16	10	8	6	4
Under any continuous operating condition	kg/cm ²	10	6	5	3.5	2.5
Stress allowed at 20c.						
For a 50 years working period						sigma σ = 7 kg/cm ²

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Fields of Applications :

PP Compression fittings are widely used for polyethylene branch lines in :

- * Potable water distribution
- * Industrial equipments for acids basis fertilizing, chemical, water treatment plants, Sea water applications, etc., Pools, anti-fire mains, protection of cable system & irrigation systems etc.,

Food regulation :

Materials are complies with recommendations and statutory regulations in the USA and most european countries regarding materials intended to come in contact with food stuff.

Certifications :

AlWasail PP compression fittings have been approved by TUV CERT ISO 9002 Certification Body of RW TUV Gmph.

Instructions for Mounting the compression fittings :

For pipes with outsides diameter 16mm - 75mm :

1. Clean of the pipe ends of loose dirt and embedded grit.
2. Bevel the pipe ends with the chamfering tool (a knife of file may also be used)
3. For easier insertion wet the end of the pipe with water or lubricating paste.
4. Unscrew the lock nut almost to the end of the thread, but do not remove completely.
5. Mark the full insertion depth of the fitting on the pipe.
6. Push the pipe into the fittings.
7. At the first stop, the seal has been reached.
8. Push the pipe past the seal until full insertion depth is reached.
9. Screw on the nut tightly.

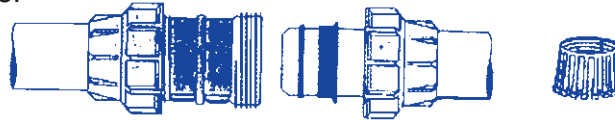
For pipes with outsides diameter 90mm - 125mm :

1. Clean of the pipe ends of loose dirt and embedded grit.
2. Bevel the pipe ends with the chamfering tool (a knife of file may also be used)
3. Dismantle the fittings and leaving the grip ring to one side, thread the nut, the thrust ring and the 'O'-ring onto the pipe.
4. Push the pipe into the fitting until it reaches the internal edge stopper. The advance the 'O'-ring and the thrust ring up to the body of the fitting.
5. Tighten the nut, using a suitable wrench, until it reaches the end of the thread. The 'O'-ring and thrust rings now correctly positioned.
6. Completely unscrew the nut from the body of the fitting. Take care not to disturb the pipe, 'O'-ring or thrust ring from their position.
7. Open the grip ring and place it on the pipe between the nut and thrust ring.
8. Offer up the nut, the fitting is now ready for final tightening.
9. Tighten the nut using Al-Wasail wrench for compression fittings.

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Assembly Instructions :

1. Clean off the pipe ends of loose dirt and embedded grit.
2. Bevel the pipe ends with the chamfering tool (a knife or file may also be used)
3. Dismantle the fittings and leaving the grip ring to one side, thread the nut, the insert and the 'O'-ring on to the pipe.



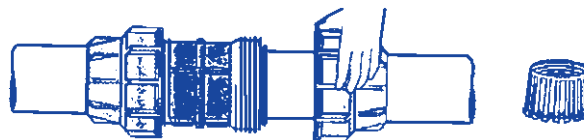
4. Push the pipe into the fitting until it reaches the internal edge stopper. Then advance the 'O'-ring and the insert up to the body of the fitting.



5. Tighten the nut, using a suitable wrench, until it reaches the end of the thread. The 'O'-ring and insert rings are now correctly positioned.



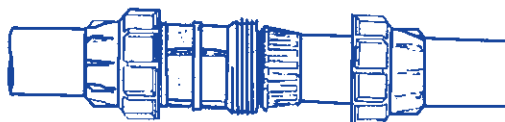
6. Completely unscrew the nut from the body of the fitting. Take care not to disturb the pipe, 'O'-ring or insert from their position.



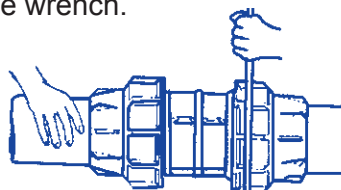
7. Open the grip ring and place it on the pipe between the nut and the insert.



8. Offer up the nut, the fitting is now ready for final tightening.



9. Tighten the nut using a suitable wrench.



10. Repeat for the other pipe.

COMPRESSION FITTINGS

COMPRESSION FITTINGS

Cross Tees



Description	Nom. Dia mm x mm x mm x mm	Code	Quantity Per Carton	Weight Kgs
mm x mm x mm x mm	16 x 16 x 16 x 16	WS - 70 - 16	100	17.00
	20 x 20 x 20 x 20	WS - 70 - 20	100	18.70
	25 x 25 x 25 x 25	WS - 70 - 25	75	14.00
	32 x 32 x 32 x 32	WS - 70 - 32	40	15.00
	40 x 40 x 40 x 40	WS - 70 - 40	15	13.25
	50 x 50 x 50 x 50	WS - 70 - 50	10	14.20
	63 x 63 x 63 x 63	WS - 70 - 63	8	10.20
	75 x 75 x 75 x 75	WS - 70 - 75	5	10.00
	90 x 90 x 90 x 90	WS - 70 - 90	4	20.00
	110 x 110 x 110 x 110	WS - 70 - 110	4	27.00

All compression fittings are 16 Bar Pressure

Female Threaded Tees

قسمام سن خارجي



Description	Nom. Dia mm x inch x mm	Code	Quantity Per Carton	Weight Kgs
mm x Inch (BSP Female) x mm	16 x 1/2" x 16	WS - 85 - 16 x 1/2	175	10.00
	16 x 3/4" x 16	WS - 85 - 16 x 3/4	175	10.30
	20 x 1/2" x 20	WS - 85 - 20 x 1/2	135	9.10
	20 x 3/4" x 20	WS - 85 - 20 x 3/4	135	10.00
	25 x 1/2" x 25	WS - 85 - 25 x 1/2	125	18.00
	25 x 3/4" x 25	WS - 85 - 25 x 3/4	125	17.40
	25 x 1" x 25	WS - 85 - 25 x 1	120	16.45
	32 x 1/2" x 32	WS - 85 - 32 x 1/2	70	17.50
	32 x 3/4" x 32	WS - 85 - 32 x 3/4	70	16.50
	32 x 1" x 32	WS - 85 - 32 x 1	70	16.15
	40 x 3/4" x 40	WS - 85 - 40 x 3/4	30	13.80
	40 x 1" x 40	WS - 85 - 40 x 1	30	13.50
	40 x 1 1/4" x 40	WS - 85 - 40 x 1 1/4	30	14.00
	40 x 1 1/2" x 40	WS - 85 - 40 x 1 1/2	30	13.80
	50 x 1 1/4" x 50	WS - 85 - 50 x 1 1/4	25	13.20
	50 x 1 1/2" x 50	WS - 85 - 50 x 1 1/2	25	13.50
	50 x 2" x 50	WS - 85 - 50 x 2	20	12.70
	63 x 1 1/2" x 63	WS - 85 - 63 x 1 1/2	12	11.30
	63 x 2" x 63	WS - 85 - 63 x 2	12	11.85
	75 x 2" x 75	WS - 85 - 75 x 2	9	12.00
	75 x 2 1/2" x 75	WS - 85 - 75 x 2 1/2	9	13.00
	90 x 3" x 90	WS - 85 - 90 x 3	9	23.25
	110 x 3" x 110	WS - 85 - 110 x 3	6	22.10
	110 x 4" x 110	WS - 85 - 110 x 4	6	21.94

All compression fittings are 16 Bar Pressure

Reducing Tees

قسمام نقاص



Description	Nom. Dia mm x mm x mm	Code	Quantity Per Carton	Weight Kgs
mm x mm x mm	20 x 16 x 20	WS - 75 - 20 x 16	135	16.56
	25 x 20 x 25	WS - 75 - 25 x 20	100	15.70
	32 x 20 x 32	WS - 75 - 32 x 20	60	14.00
	32 x 25 x 32	WS - 75 - 32 x 25	50	13.65
	40 x 25 x 40	WS - 75 - 40 x 25	30	14.10
	40 x 32 x 40	WS - 75 - 40 x 32	25	13.50
	50 x 32 x 50	WS - 75 - 50 x 32	24	15.70
	50 x 40 x 50	WS - 75 - 50 x 40	18	12.00
	63 x 32 x 63	WS - 75 - 63 x 32	12	11.74
	63 x 40 x 63	WS - 75 - 63 x 40	10	10.20
	63 x 50 x 63	WS - 75 - 63 x 50	10	11.10
	75 x 50 x 75	WS - 75 - 75 x 50	6	12.00
	75 x 63 x 75	WS - 75 - 75 x 63	6	13.00
	90 x 63 x 90	WS - 75 - 90 x 63	7	20.10
	90 x 75 x 90	WS - 75 - 90 x 75	7	21.00
	110 x 63 x 110	WS - 75 - 110 x 63	6	24.30
	110 x 75 x 110	WS - 75 - 110 x 75	5	22.20
110 x 90 x 110	WS - 75 - 110 x 90	5	23.50	

All compression fittings are 16 Bar Pressure

Male Threaded Tees

قسمام سن خارجي



Description	Nom. Dia mm x inch x mm	Code	Quantity Per Carton	Weight Kgs
mm x Inch (BSP Female) x mm	16 x 1/2" x 16	WS - 90 - 16 x 1/2	175	12.00
	16 x 3/4" x 16	WS - 90 - 16 x 3/4	175	12.20
	20 x 1/2" x 20	WS - 90 - 20 x 1/2	135	10.10
	20 x 3/4" x 20	WS - 90 - 20 x 3/4	135	10.20
	25 x 1/2" x 25	WS - 90 - 25 x 1/2	120	12.50
	25 x 3/4" x 25	WS - 90 - 25 x 3/4	100	13.90
	25 x 1" x 25	WS - 90 - 25 x 1	100	14.00
	32 x 1/2" x 32	WS - 90 - 32 x 1/2		14.30
	32 x 3/4" x 32	WS - 90 - 32 x 3/4	60	14.45
	32 x 1" x 32	WS - 90 - 32 x 1	60	14.40
	40 x 1" x 40	WS - 90 - 40 x 1	40	13.00
	40 x 1 1/4" x 40	WS - 90 - 40 x 1 1/4	40	12.90
	40 x 1 1/2" x 40	WS - 90 - 40 x 1 1/2	30	13.30
	50 x 1 1/4" x 50	WS - 90 - 50 x 1 1/4	25	14.10
	50 x 1 1/2" x 50	WS - 90 - 50 x 1 1/2	25	14.70
	63 x 1 1/2" x 63	WS - 90 - 63 x 1 1/2	12	17.12
	63 x 2" x 75	WS - 90 - 63 x 2	12	11.00
	75 x 2" x 75	WS - 90 - 75 x 2	9	12.00
	75 x 2 1/2" x 75	WS - 90 - 75 x 2 1/2	9	11.80
	90 x 3" x 90	WS - 90 - 90 x 3	8	20.95
	90 x 4" x 90	WS - 90 - 90 x 4	8	21.00
	110 x 4" x 110	WS - 90 - 110 x 4	6	21.85

All compression fittings are 16 Bar Pressure

Tees

قسمام



Description	Nom. Dia mm x mm x mm	Code	Quantity Per Carton	Weight Kgs
mm x mm x mm	16 x 16 x 16	WS - 80 - 16 x 16	125	10.60
	20 x 20 x 20	WS - 80 - 20 x 20	125	17.55
	25 x 25 x 25	WS - 80 - 25 x 25	90	16.95
	32 x 32 x 32	WS - 80 - 32 x 32	50	15.40
	40 x 40 x 40	WS - 80 - 40 x 40	20	11.65
	50 x 50 x 50	WS - 80 - 50 x 50	15	11.95
	63 x 63 x 63	WS - 80 - 63 x 63	10	11.65
	75 x 75 x 75	WS - 80 - 75 x 75	6	12.70
	90 x 90 x 90	WS - 80 - 90 x 90	6	20.70
	110 x 110 x 110	WS - 80 - 110 x 110	5	23.55

All compression fittings are 16 Bar Pressure

COMPRESSION FITTINGS

Male Adaptor

بداية سن خارجي



Description	Nom. Dia mm x inch	Code	Quantity Per Carton	Weight Kgs
mm x Inch (BSP Male)	16 x 1/2"	WS - 95 - 16 x 1/2	300	8.60
	16 x 3/4"	WS - 95 - 16 x 3/4	300	9.30
	20 x 1/2"	WS - 95 - 20 x 1/2	200	10.55
	20 x 3/4"	WS - 95 - 20 x 3/4	200	10.80
	25 x 1/2"	WS - 95 - 25 x 1/2	300	18.15
	25 x 3/4"	WS - 95 - 25 x 3/4	300	17.15
	25 x 1"	WS - 95 - 25 x 1	300	18.50
	32 x 1/2"	WS - 95 - 32 x 1/2	150	16.00
	32 x 3/4"	WS - 95 - 32 x 3/4	150	15.80
	32 x 1"	WS - 95 - 32 x 1	150	15.10
	32 x 1 1/2"	WS - 95 - 32 x 1 1/2	150	16.50
	40 x 1 1/4"	WS - 95 - 40 x 1 1/4	75	14.90
	40 x 1 1/2"	WS - 95 - 40 x 1 1/2	75	14.76
	40 x 2"	WS - 95 - 40 x 2	75	14.20
	50 x 1 1/4"	WS - 95 - 50 x 1 1/4	45	13.90
	50 x 1 1/2"	WS - 95 - 50 x 1 1/2	45	14.55
	50 x 2"	WS - 95 - 50 x 2	45	13.20
	63 x 1 1/2"	WS - 95 - 63 x 1 1/2	30	13.20
	63 x 2"	WS - 95 - 63 x 2	30	13.50
	75 x 2"	WS - 95 - 75 x 2	20	13.20
	75 x 2 1/2"	WS - 95 - 75 x 2 1/2	20	13.95
	75 x 3"	WS - 95 - 75 x 3	20	14.30
	90 x 3"	WS - 95 - 90 x 3	20	22.20
	90 x 4"	WS - 95 - 90 x 4	20	28.33
	110 x 3"	WS - 95 - 110 x 3	18	27.75
	110 x 4"	WS - 95 - 110 x 4	18	26.45
	125 x 4"	<input type="checkbox"/> WS - 95 - 125 x 4	10	27.80
	125 x 5"	<input type="checkbox"/> WS - 95 - 125 x 5	10	28.50

All compression fittings are 16 Bar and Items mark 10 Bar Pressure

Coupling

وصلة



Description	Nom. Dia mm x mm	Code	Quantity Per Carton	Weight Kgs
mm x mm	16 x 16	WS - 105 - 16 x 16	250	11.20
	20 x 20	WS - 105 - 20 x 20	125	11.00
	25 x 25	WS - 105 - 25 x 25	175	17.30
	32 x 32	WS - 105 - 32 x 32	100	17.85
	40 x 40	WS - 105 - 40 x 40	45	15.35
	50 x 50	WS - 105 - 50 x 50	35	15.80
	63 x 63	WS - 105 - 63 x 63	20	14.35
	75 x 75	WS - 105 - 75 x 75	12	15.80
	90 x 90	WS - 105 - 90 x 90	12	24.15
	110 x 110	WS - 105 - 110 x 110	9	23.30
	125 x 125	<input type="checkbox"/> WS - 105 - 125 x 125	6	29.70

All compression fittings are 16 Bar and Items mark 10 Bar Pressure

Coupling

وصلة



Description	Nom. Dia mm x mm	Code	Quantity Per Carton	Weight Kgs
mm x mm	20 x 16	WS - 110 - 20 x 16	180	12.18
	25 x 20	WS - 110 - 25 x 20	125	11.00
	32 x 25	WS - 110 - 32 x 20	135	12.00
	32 x 25	WS - 110 - 32 x 25	125	17.45
	40 x 25	WS - 110 - 40 x 25	70	15.30
	40 x 32	WS - 110 - 40 x 32	60	15.15
	50 x 25	WS - 110 - 50 x 25	55	14.80
	50 x 32	WS - 110 - 50 x 32	50	15.95
	50 x 40	WS - 110 - 50 x 40	35	13.90
	63 x 32	WS - 110 - 63 x 32	25	11.85
	63 x 40	WS - 110 - 63 x 40	24	11.70
	63 x 50	WS - 110 - 63 x 50	24	11.65
	75 x 50	WS - 110 - 75 x 50	18	12.00
	75 x 63	WS - 110 - 75 x 63	15	14.50
	90 x 63	WS - 110 - 90 x 63	18	25.45
	90 x 75	WS - 110 - 90 x 75	18	28.25
	110 x 63	WS - 110 - 110 x 63	12	21.35
	110 x 90	WS - 110 - 110 x 90	10	23.35
	125 x 110	<input type="checkbox"/> WS - 110 - 125 x 110	6	21.94

All compression fittings are 16 Bar and Items mark 10 Bar Pressure

Female Adaptors

بداية سن داخلي



Description	Nom. Dia mm x inch	Code	Quantity Per Carton	Weight Kgs
mm x Inch (BSP Male)	16 x 1/2"	WS - 100 - 16 x 1/2	300	9.00
	16 x 3/4"	WS - 100 - 16 x 3/4	300	10.00
	20 x 1/4"	WS - 100 - 20 x 1/4	200	10.50
	20 x 1/2"	WS - 100 - 20 x 1/2	200	10.80
	25 x 1/2"	WS - 100 - 25 x 1/2	250	19.00
	25 x 3/4"	WS - 100 - 25 x 3/4	250	18.65
	25 x 1"	WS - 100 - 25 x 1	250	19.35
	32 x 1/2"	WS - 100 - 32 x 1/2	150	15.80
	32 x 3/4"	WS - 100 - 32 x 3/4	150	16.20
	32 x 1"	WS - 100 - 32 x 1	150	16.95
	40 x 1"	WS - 100 - 40 x 1	70	17.00
	40 x 1 1/4"	WS - 100 - 40 x 1 1/4	70	16.80
	40 x 1 1/2"	WS - 100 - 40 x 1 1/2	70	16.60
	50 x 1 1/4"	WS - 100 - 50 x 1 1/4	50	13.00
	50 x 1 1/2"	WS - 100 - 50 x 1 1/2	50	13.45
	50 x 2"	WS - 100 - 50 x 2	50	14.00
	63 x 1 1/2"	WS - 100 - 63 x 1 1/2	30	14.00
	63 x 2"	WS - 100 - 63 x 2	30	13.95
	75 x 2"	WS - 100 - 75 x 2	20	12.95
	75 x 2 1/2"	WS - 100 - 75 x 2 1/2	20	13.00
	90 x 3"	WS - 100 - 90 x 3	24	28.60
110 x 3"	WS - 100 - 110 x 3	18	28.00	
110 x 4"	WS - 100 - 110 x 4	18	27.04	

All compression fittings are 16 Bar Pressure

End Cap

سدة



Description	Nom. Dia mm x mm	Code	Quantity Per Carton	Weight Kgs
mm	16	WS - 115 - 16	400	10.84
	20	WS - 115 - 20	250	13.02
	25	WS - 115 - 25	300	15.85
	32	WS - 115 - 32	180	17.65
	40	WS - 115 - 40	80	14.65
	50	WS - 115 - 50	50	12.80
	63	WS - 115 - 63	40	16.35
	75	WS - 115 - 75	20	15.60
	90	WS - 115 - 90	24	27.15
	110	WS - 115 - 110	18	26.60
	125	<input type="checkbox"/> WS - 115 - 125	10	27.30

All compression fittings are 16 Bar and Items mark 10 Bar Pressure

COMPRESSION FITTINGS

COMPRESSION FITTINGS

Female Threaded Elbows

كوع سن داخلي



Description	Nom. Dia mm x inch	Code	Quantity Per Carton	Weight Kgs
mm x Inch (BSP Female)	16 x 1/2"	WS - 125 - 16 x 1/2	300	10.00
	16 x 3/4"	WS - 125 - 16 x 3/4	300	9.80
	20 x 1/2"	WS - 125 - 20 x 1/2	175	9.50
	20 x 3/4"	WS - 125 - 20 x 3/4	300	17.00
	25 x 1/2"	WS - 125 - 25 x 1/2	200	17.50
	25 x 3/4"	WS - 125 - 25 x 3/4	200	16.40
	25 x 1"	WS - 125 - 25 x 1	200	18.00
	32 x 1/2"	WS - 125 - 32 x 1/2	150	18.84
	32 x 3/4"	WS - 125 - 32 x 3/4	125	16.90
	32 x 1"	WS - 125 - 32 x 1	130	17.80
	40 x 1"	WS - 125 - 40 x 1	70	16.00
	40 x 1 1/4"	WS - 125 - 40 x 1 1/4	70	15.50
	40 x 1 1/2"	WS - 125 - 40 x 1 1/2	70	15.50
	50 x 1 1/4"	WS - 125 - 50 x 1 1/4	70	14.00
	50 x 1 1/2"	WS - 125 - 50 x 1 1/2	40	13.50
	50 x 2"	WS - 125 - 50 x 2	35	13.95
	63 x 1 1/2"	WS - 125 - 63 x 1 1/2	25	14.00
	63 x 2"	WS - 125 - 63 x 2	25	13.05
	75 x 2"	WS - 125 - 75 x 2	18	12.00
	75 x 2 1/2"	WS - 125 - 75 x 2 1/2	18	12.50
	90 x 3"	WS - 125 - 90 x 3	15	22.35
	90 x 4"	WS - 125 - 90 x 4	15	23.00
	110 x 3"	WS - 125 - 110 x 3	12	22.00
	110 x 4"	WS - 125 - 110 x 4	12	21.25

All compression fittings are 16 Bar Pressure

Male Threaded Elbows

كوع سن خارجي



Description	Nom. Dia mm x inch	Code	Quantity Per Carton	Weight Kgs
mm x Inch (BSP male)	16 x 1/2"	WS - 130 - 16 x 1/2	300	9.75
	16 x 3/4"	WS - 130 - 16 x 3/4	300	10.05
	20 x 1/2"	WS - 130 - 20 x 1/2	175	10.45
	20 x 3/4"	WS - 130 - 20 x 3/4	175	10.65
	25 x 1/2"	WS - 130 - 25 x 1/2	225	14.55
	25 x 3/4"	WS - 130 - 25 x 3/4	225	17.45
	25 x 1"	WS - 130 - 25 x 1	200	14.55
	32 x 1/2"	WS - 130 - 32 x 1/2	125	16.50
	32 x 3/4"	WS - 130 - 32 x 3/4	125	16.40
	32 x 1"	WS - 130 - 32 x 1	125	16.90
	40 x 1"	WS - 130 - 40 x 1	50	14.00
	40 x 1 1/4"	WS - 130 - 40 x 1 1/4	50	14.20
	40 x 1 1/2"	WS - 130 - 40 x 1 1/2	50	13.10
	50 x 1 1/4"	WS - 130 - 50 x 1 1/4	35	12.20
	50 x 1 1/2"	WS - 130 - 50 x 1 1/2	35	12.55
	50 x 2"	WS - 130 - 50 x 2	35	12.30
	63 x 1 1/2"	WS - 130 - 63 x 1 1/2	25	13.35
	63 x 2"	WS - 130 - 63 x 2	25	13.30
	75 x 2"	WS - 130 - 75 x 2	15	12.00
	75 x 2 1/2"	WS - 130 - 75 x 2 1/2	15	12.20
	90 x 3"	WS - 130 - 90 x 3	15	23.85
	90 x 4"	WS - 130 - 90 x 4	15	24.00
	110 x 3"	WS - 130 - 110 x 3	12	24.10
	110 x 4"	WS - 130 - 110 x 4	12	25.75

All compression fittings are 16 Bar and Items mark 10 Bar Pressure

Equal Elbows

كوع



Description	Nom. Dia mm x mm	Code	Quantity Per Carton	Weight Kgs
mm x mm	16 x 16	WS - 120 - 16 x 16	200	17.00
	20 x 20	WS - 120 - 20 x 20	120	18.70
	25 x 25	WS - 120 - 25 x 25	150	14.00
	32 x 32	WS - 120 - 32 x 32	70	15.00
	40 x 40	WS - 120 - 40 x 40	40	13.25
	50 x 50	WS - 120 - 50 x 50	25	14.20
	63 x 63	WS - 120 - 63 x 63	15	10.20
	75 x 75	WS - 120 - 75 x 75	10	10.00
	90 x 90	WS - 120 - 90 x 90	9	20.00
	110 x 110	WS - 120 - 110 x 110	7	27.00

All compression fittings are 16 Bar Pressure

Flanged Adaptors

بداية فلنجة



Description	Nom. Dia mm x inch	Code	Quantity Per Carton	Weight Kgs
mm x Inch (BSP male)	50 x 2"	WS - 135 - 50	30	14.00
	63 x 2"	WS - 135 - 63	20	11.25
	75 x 2"	WS - 135 - 75	18	12.00
	90 x 3"	WS - 135 - 90	18	25.10
	110 x 4"	WS - 135 - 110	12	22.35
	125 x 5"	<input type="checkbox"/> WS - 135 - 125	10	29.35

All compression fittings are 16 Bar and Items mark 10 Bar Pressure

UNION FITTINGS - UNIFIT COMPRESSION FITTINGS

UniFit Elbow - Male Female



Description	Nom. Dia inch x inch	Code	Quantity Per Carton	Weight Kgs
Inch x Inch BSP WS - UF	1 " x 1 "	WS - UF - 130-50	75	13.00
	1 1/2" x 1 1/2"	WS - UF - 130-63	60	12.00

All compression fittings are 16 Bar and Items mark

UniFit - Cross Tee
(with Male Thread)



Description	Nom. Dia mm x Inch x mm x Inch	Code	Quantity Per Carton	Weight Kgs
mm x mm WS - COCT	63 x 2" x 63 x 2"	WS - UF - 90 - 63 x 2	9	10.55
	63 x 2"	WS - UF - 90 - 63 x 2D	12	11.00

All compression fittings are 16 Bar and Items mark

UniFit - 3 Way Cross Tee



Description	Nom. Dia inch x inch	Code	Quantity Per Carton	Weight Kgs
Comp x BSP Female x Comp WS - UFT	32 x 3/4" x 32	WS - UF - 85-32	50	12.70

All compression fittings are 16 Bar and Items mark

COMPRESSION FITTINGS - SPARE PARTS

Cap



Description	Nom. Dia mm	Code	Quantity Per Carton	Weight Kgs
mm	16	WS - CAP - 16		
	20	WS - CAP - 20		
	25	WS - CAP - 25		
	32	WS - CAP - 32		
	40	WS - CAP - 40		
	50	WS - CAP - 50		
	63	WS - CAP - 63		
	75	WS - CAP - 75		
	90	WS - CAP - 90		
	110	WS - CAP - 110		
	125	<input type="checkbox"/> WS - CAP - 125		

All compression fittings are 16 Bar and Items mark 10 Bar Pressure

Thrust Ring



Description	Nom. Dia mm	Code	Quantity Per Carton	Weight Kgs
mm	16	WS - TR - 16		
	20	WS - TR - 20		
	25	WS - TR - 25		
	32	WS - TR - 32		
	40	WS - TR - 40		
	50	WS - TR - 50		
	63	WS - TR - 63		
	75	WS - TR - 75		
	90	WS - TR - 90		
	110	WS - TR - 110		
	125	<input type="checkbox"/> WS - TR - 125		

All compression fittings are 16 Bar and Items mark 10 Bar Pressure

Grip Ring



Description	Nom. Dia mm	Code	Quantity Per Carton	Weight Kgs
mm	16	WS - GRIP - 16		
	20	WS - GRIP - 20		
	25	WS - GRIP - 25		
	32	WS - GRIP - 32		
	40	WS - GRIP - 40		
	50	WS - GRIP - 50		
	63	WS - GRIP - 63		
	75	WS - GRIP - 75		
	90	WS - GRIP - 90		
	110	WS - GRIP - 110		
	125	<input type="checkbox"/> WS - GRIP - 125		

All compression fittings are 16 Bar and Items mark 10 Bar Pressure

O' Ring



Description	Nom. Dia mm	Code	Quantity Per Carton	Weight Kgs
mm	16	WS - RING - 16		
	20	WS - RING - 20		
	25	WS - RING - 25		
	32	WS - RING - 32		
	40	WS - RING - 40		
	50	WS - RING - 50		
	63	WS - RING - 63		
	75	WS - RING - 75		
	90	WS - RING - 90		
	110	WS - RING - 110		
	125	<input type="checkbox"/> WS - RING - 125		

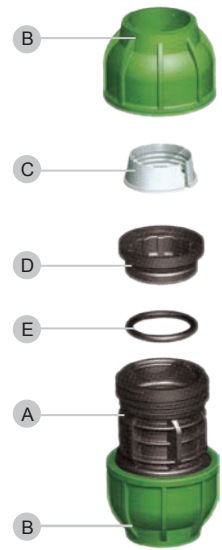
All compression fittings are 16 Bar and Items mark 10 Bar Pressure

COMPRESSION FITTINGS

GREEN COMPRESSION FITTINGS

Materials

Parts	Material	Colour
Body (A)	High viscosity and mechanicals resistance polypropylene	black
Blocking bush (D)	Polypropylene	black
Nut (B)	Polypropylene with dye master of high stability to UV rays and solidity to heat (8 grade according to standard DIN 54004)	green
Clinching ring (C)	Polyacetal resin (POM) with high mechanical resistance and hardness	white
O Ring gasket (E)	Special elastomeric acrylonitrile rubber (NBR) for alimentary use	black
Reinforcing ring	Stainless steel AISA 430 (UNI X8Cr17, W.nr 14828) for female threads from 2" to 4"	-



Reference Standards

- **Operating pressures:** UNI 9561 :2006; DIN 8076:2007; ISO 14236:2000; GW 335-83:2011; SANS 14236:2003; AS/NZS 4129:2008.
- **Polyethylene (PE) pipes:** UNI 7990:2004; UNI EN 12201-2:2004; DIN 8074:1999
- **Fittings:** DM 17406/04/2004; 8S 6920:2000; W270; KTW
- **Threads:** ISO 7-1 :2007; UNI EN 10226-1 :2006; UNI EN ISO 228-1 :2003; ANSI ASME 81.20.1 :1983
- **Flanges:** UNI EN 1092-1 :2007; ISO 7005-1 :2011

Working Pressures

The Green Compression Fittings has been designed for maximum working pressures (PN ~ PFA*) of 10 bar (UNI 9562) from \varnothing 16 to \varnothing 110, except for items 201, 210, 211, 211, 221 with \varnothing 16 to \varnothing 32, wich can tolerate a maximum working pressure (PN ~ PFA*) of 12.5 bar.

\varnothing	PFA*	PMA*	PEA*
16 - 63	10	12,5	15
75 - 110	10	12,5	15



TEES



	Description mm x mm x mm	Code	Size
mm x mm x mm	32 x 32 x 32	WS-80	LC-32
	40 x 40 x 40	WS-80	LC-40
	50 x 50 x 50	WS-80	LC-50
	63 x 63 x 63	WS-80	LC-63

COUPLING



	Description mm x mm	Code	Size
mm x mm	32 x 32	WS-105	LC-32
	40 x 40	WS-105	LC-40
	50 x 50	WS-105	LC-50
	63 x 63	WS-105	LC-63

MALE ADAPTOR



	Description mm x inch	Code	Size
mm x inch	32 x 1"	WS-95	LC-32 x 1
	32 x 2"	WS-95	LC-32 x 2
	40 x 1 1/2"	WS-95	LC-40 x 1 1/2
	40 x 2"	WS-95	LC-40 x 2
	50 x 1 1/2"	WS-95	LC-50 x 1 1/2
	50 x 2"	WS-95	LC-50 x 2
	63 x 2"	WS-95	LC-63 x 2

EQUAL ELBOW



	Description mm x mm	Code	Size
mm x mm	32 x 32	WS-120	LC-32
	40 x 40	WS-120	LC-40
	50 x 50	WS-120	LC-50
	63 x 63	WS-120	LC-63