For Irrigation and Water Systems

Quality Technology

Reliability Services

Contents:

Introduction

Agriculture self-sufficiency is becoming a vital issue for the future of many of the countries around the world . As a result, a revolutionary technology was developed to enhance the irrigation methods that was and still is applied. Today, users of this system, have experienced increase in productivity, more efficient use of water, minimized labor and production cost.

Mais was first established in 1979 in Jordan and later a second factory was born in Saudi Arabia and the third one was born in Syria to meet the growing demand for Modern Equipment and Irrigation Systems. All factories are equipped with the latest German and Swiss made Computerized Injection Moulding and Extruder Machines. We rely on qualified and experienced Technical, Administrative, Financial and Marketing personnel. Our production Capacity is flexible enough to meet the highest possible marked demand.

Mais products are based on the International standards and each product is marked with the Manufacturer Name and Size. Our quality control is strictly monitored. We guarantee the highest quality at most competitive prices.

We have the capacity to supply all the Equipment and Accessories to distant geographical locations. We provide a complete Drip Irrigation System including Designing and Installing the Projects and also we can provide experienced Field personnel to assist and supervise your Installation and Operation.

Applications of MAIS Products

- Irrigation Systems
- Drinking Water Systems
- Domestic waste water systems
- Gas Pipes
- Cable Sub ducts
- Industrial
- Effluent waste

Our engineering department along with our technical staff are available to assist you in the selection of the best product suitable for your particular application.

Mais Product Line

1. PIPES

Mais Company manufactures a wide range of High Density, Low Density and linear low density polyethylene pipe in accordance with international standards, such as German Standard DIN 8072/8074 and Australian standard (AS 2698.1), add others (see table-A), ISO 4427.
All designated tests are made in accordance with ASTM standard methods.

1.1 POLYETHYLENE PIPES

Our Polyethylene pipe compound is used to meet the requirement of ASTM 1248-81 a for type PE 34 class C, it is extruded from Polyethylene resin. Minimum 2% carbon black is incorporated in the product to insure weather resistance. It has been approved internationally as suitable for use in portable water piping systems. High density pipes are known to be stiffer and less flexible, however, low density pipes are softer and more flexible. For these reasons, high density pipes are used for main and sub main lines, where as low density pipes are used for lateral lines. Such pipe material is purchased from major suppliers and have the following advantages:

A. Corrosion resistant and Chemical resistant
B. Microbiological attacks and Impact resistant
C. Weather resistant
D. Non-contaminating, Non-toxic
E. Able to convey pressurized hot water
F. Its ability to resist cracks at low temperature
G. (It contain 2.3%) carbon, the best production against UV

2. MAIS QUICK COUPLING FITTINGS AND CLAM SADDLES

Mais Quick Coupling Fittings and Clamp Saddles are well designed and made of High quality plastic material to sustain a high pressure. They are used as complementary parts for high density pipes to form a complete network.

Mais Compression Fittings and Clamp saddles are produced in wide range of sizes and are suitable to use with pipes made according to DIN standards.

2.1 Materials:

The body is made of polypropylene material which has a high impact strength, resistance to high temperature and stabilize against ultra-violet radiation, O-ring is made of NBR Rubber. Tightening rings for compression fittings are made of polyacetal, as for Clamp Saddles, the locking bolts and nuts are made of galvanized steel.

3. **WELDING FITTINGS**
   These fittings are used to connect large diameter pipes, in such applications as Central pivot.

4. **MAIS INTERNAL (BARBED) FITTINGS**
   Mais Polypropylene Internal Barbed Fittings are used to connect low density pipes. These fittings are manufactured in accordance with international standards.

5. **MAIS BUBBLERS AND EMITTERS**
   Mais produces a wide range of Bubblers and Drippers, each product is designed to suit a specific application.

6. **ACCESSORIES**
   In addition to producing Bubblers and Drippers, Mais also produces accessories such as Tubing distribution small stake, Bubbler stake, Puncher, Tree Clip, Valves and others.

7. **DISC FILTERS**

8. **MAIS PC TONE**

9. **MAIS TONE**

10. **MAIS TAPE**

PIPES

HDPE PIPE SPECIFICATIONS
HDPE SPECIFICATION DE TUYAUX

Table A. (Based on the formula given in DIN 8074)

Nominal O.D. of Pipe (mm)	Series 3 (W.P. = 4 Bar)		Series 4 (W.P. = 6 Bar)		Series 5 (W.P. = 10 Bar)		Series 6 (W.P. =16 Bar)	
	W.T. (mm)	Weight (Kg/m)	W.T. (mm)	Weight (Kg/m)	W.T. (mm)	Weight (Kg/m)	W.T. (mm)	Weight (Kg/m)
16	--	--	--	--	2.0	0.091	2.9	0.121
20	--	--	--	--	2.0	0.117	2.9	0.158
25	--	--	2.0	0.150	2.3	0.171	3.6	0.245
32	--	--	2.0	0.196	3.0	0.279	4.5	0.393
40	2.0	0.248	2.3	0.285	3.7	0.430	5.7	0.617
50	2.0	0.314	2.9	0.440	4.6	0.666	7.1	0.961
63	2.5	0.494	3.6	0.688	5.8	1.05	8.9	1.51
75	2.9	0.675	4.3	0.976	6.9	1.48	10.6	2.14
90	3.5	0.978	5.1	1.39	8.2	2.12	12.7	3.07
110	4.3	1.46	6.3	2.08	10.0	3.14	15.5	4.58
125	4.9	1.88	7.1	2.66	11.4	4.08	17.6	5.90
160	6.2	3.04	9.1	4.35	14.6	6.67	22.5	9.67
180	--	--	10.2	5.43	16.4	8.42	--	--
200	7.7	4.69	11.4	6.79	18.2	10.4	27.6	14.9
225	8.7	5.96	12.8	8.55	20.5	13.1	--	--
250	9.7	7.37	14.2	10.50	22.8	16.2	34.5	23.2
280	10.8	9.18	15.9	13.2	25.5	20.3		
315	12.2	11.7	17.9	16.7	28.7	25.7		
335	13.7	14.7	20.1	21.2	32.3	32.6		
400	15.4	18.7	22.7	26.9	36.4	41.4		
450	17.4	23.7	25.5	34.0	41.0	52.4		

O.D. = Nominal Outside Diameter W.P. = Nominal Working Pressure W.T. = Nominal Wall Thickness

ISO 4427, DIN 8074

PE 80

O.D. (mm)	PN 6 W.T (mm)	PN 10 W.T (mm)	PN 16 W.T (mm)
20	--	2.3	2.3
25	--	2.3	2.8
32	--	2.4	3.6
40	--	3.0	4.5
50	2.3	3.7	5.6
63	2.9	4.7	7.1
75	3.4	5.6	8.4
90	4.3	6.7	10.1
110	5.3	8.1	12.3
125	6.0	9.2	14.0
140	6.7	10.3	15.7
160	7.7	11.8	17.9
180	8.6	13.3	20.1
200	9.6	14.7	22.4
225	10.8	16.6	25.2
250	11.9	18.4	27.9

O.D. = Nominal Outside Diameter W.P. = Nominal Working Pressure W.T. = Nominal Wall Thickness

ISO 4427, DIN 8074

PE 100

Desc. O.D. (mm)	SDR 26 PN 6.3 W.T (mm)	SDR 21 PN 8 W.T (mm)	SDR 17 PN 10 W.T (mm)	SDR 13.6 PN 12.5 W.T (mm)	SDR 11 PN 16 W.T (mm)
20	--	--	1.8	1.9	2.0
25	--	--	1.9	2.0	2.3
32	--	--	2.0	2.4	3.0
40	--	2.0	2.4	3.0	3.7
50	2.0	2.4	3.0	3.7	4.6
63	2.5	3.0	3.8	4.7	5.8
75	2.9	3.6	4.5	5.6	6.8
90	3.5	4.3	5.4	6.7	8.2
110	4.2	5.3	6.6	8.1	10.0
125	4.8	6.0	7.4	9.2	11.4
140	5.4	6.7	8.3	10.3	12.7
160	6.2	7.7	9.5	11.8	14.6
180	6.9	8.6	10.7	13.3	16.4
200	7.7	9.6	11.9	14.7	18.2
225	8.6	10.8	13.4	16.6	20.5
250	9.6	11.9	14.8	18.4	22.7
280	10.7	13.4	16.6	20.6	25.4
315	12.1	15.0	18.7	23.2	28.6
355	13.6	16.9	21.1	26.1	32.2
400	15.3	19.1	23.7	29.4	36.3
450	17.2	21.5	26.7	33.1	40.9
500	19.1	23.9	29.7	36.6	45.4

PIPES DIMENSIONS (BASED ON DIN 8072)

W.P. = 4 BAR

Nominal O.D. Size (mm)	O.D. (mm)	W.T. (mm)	I.D. (mm)	Unit Weight (gr/m)
16	16	1.2	13.6	59
20	20	1.5	17.0	90
25	25	2.0	21.0	145
32	32	2.0	28.0	188

PIPES DIMENSIONS BASED ON AUSTRALIAN STANDARD AS 2698.1 - 1984

W.P. = 4 BAR

Nominal I.D. Size (mm)	O.D. (mm)	W.T. (mm)	I.D. (mm)	Unit Weight (gr/m)
13	15.40	1.2	13.0	52
16	18.40	1.2	16.0	63
19	21.60	1.3	19.0	81
25	28.00	1.5	25.0	121

SPECIAL PIPES SIZES

W.P. = 4 BAR

Nominal O.D. Size (mm)	O.D. (mm)	W.T. (mm)	I.D. (mm)	Unit Weight (gr/m)
4.5	4.50	0.75	3.00	8
5.8	5.80	0.90	4.00	12
16.0	16.00	1.50	13.00	68
25.0	25.00	1.50	22.00	111

O.D. = Outside Diameter
W.P. = Working Pressure AT 20°C
W.T. = Wall Thickness
I.D. = Inside Diameter

Quick Coupling Fittings PN6, PN16 *

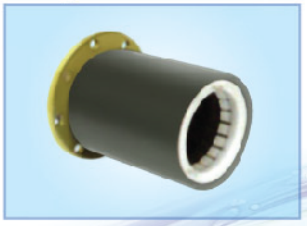
105 Male Adaptor With BSP Thread

mm x inch
20 x 1/2"
20 x 3/4"
25 x 3/4"
32 x 1/2"
32 x 3/4"
32 x 1
40 x 1 1/4"
40 x 1 1/2"
50 x 1 1/2"
50 x 2"
60 x 2"
75 x 2 1/2"
90 x 2"
90 x 2 1/2"
90 x 3"
90 x 4"
110 x 3"
110 x 4"
125 x 4"
125 x 5"

106 Female Adaptor

mm x inch
20 x 1/2"
25 x 3/4"
32 x 1"
40 x 1 1/4"
50 x 1 1/2"
50 x 2"
63 x 2"
75 x 2 1/2"
110 x 4"

107 Flanged Joint



mm x inch
125 x 5"
125 x 6"
160 x 6"

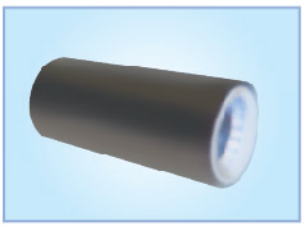
110 End Cap

mm
20
25
32
40
50
63
75
90
110
125

115 Connector Coupling

mm x mm
20 x 20
25 x 25
32 x 32
40 x 40
50 x 50
63 x 63
75 x 75
90 x 90
110 x 110
125 x 125

117 Connector



mm
160 x 160
200 x 200

*** High Pressure**

Quick Coupling Fittings PN6, PN16 *

Reducer Coupling

120

mm x mm
25 x 20
32 x 25
40 x 32
50 x 32
50 x 40
63 x 50
75 x 50
75 x 63
90 x 50
90 x 63
90 x 75
110 x 50
110 x 63
110 x 75
110 x 90
125 x 110

90° Elbow Coupling

125

mm x inch
20 x 20
25 x 25
32 x 32
40 x 40
50 x 50
63 x 63
75 x 75
90 x 90
110 x 110

90° Elbow with BSP Thread (Male)

130

mm x inch
20 x 1/2"
25 x 3/4"
32 x 1"
40 x 1 1/4"
50 x 1 1/2"
63 x 2"
75 x 2 1/2"
90 x 3"
110 x 4"

90° Elbow with BSP Thread (Female)

135

mm x inch
20 x 1/2"
25 x 3/4"
32 x 1"
40 x 1 1/4"
50 x 1 1/2"
63 x 2"
75 x 2 1/2"
90 x 3"
110 x 4"

90° Tee Coupling

140

mm x mm x mm
20 x 20 x 20
25 x 25 x 25
32 x 32 x 32
40 x 40 x 40
50 x 50 x 50
63 x 63 x 63
75 x 75 x 75
90 x 90 x 90
110 x 110 x 110

Tee with BSP Thread (Male)

145

mm x inch x mm
20 x 1/2" x 20
25 x 3/4" x 25
32 x 1" x 32
40 x 1 1/4" x 40
50 x 1 1/2" x 50
63 x 2" x 63
75 x 2 1/2" x 75
90 x 3" x 90
110 x 4" x 110

Tee with BSP Thread (Female)

150

mm x inch x mm
20 x 1/2" x 20
25 x 3/4" x 25
32 x 1" x 32
40 x 1 1/4" x 40
50 x 1 1/2" x 50
63 x 2" x 63
75 x 2 1/2" x 75
90 x 3" x 90
110 x 4" x 110

*** High Pressure**

Butt Welding Fittings (Moulded)*

Tee Reducer

200

mm X mm X mm
110 x 63 x 110
110 x 90 x 110
160 x 110 x 160
200 x 160 x 200
200 x 110 x 200
225 x 110 x 225
225 x 120 x 225
225 x 160 x 225

Reducer

210

mm x mm
110 x 90
125 x 90
125 x 110
160 x 90
160 x 110
200 x 160
200 x 180
225 x 110
225 x 160
225 x 200
250 x 160
250 x 225

Spigot Flange Adaptor

205

mm
90
110
125
160
200
225
250

Tee

215

mm
90
110
125
160
200
225
250

End Cap

207

mm
110
125
160
200

Elbow

220

mm
90
110
125
160
200
225
250

*** High Pressure**

Clamp Saddle - PN6, PN16 *

Clamp Saddle with Four Bolts

310

mm x inch
63 x 1/2"
63 x 3/4"
63 x 1"
63 x 1 1/4"
63 x 1 1/2"
75 x 1/2"
75 x 3/4"
75 x 1"
75 x 1 1/4"
75 x 1 1/2"
90 x 1/2"
90 x 3/4"
90 x 1"
90 x 1 1/4"
90 x 1 1/2"
90 x 2"
90 x 2 1/2"
110 x 1/2"
110 x 3/4"
110 x 1"
110 x 1 1/4"
110 x 1 1/2"
110 x 2"
110 x 2 1/2"
110 x 3"
125 x 1/2"
125 x 3/4"
125 x 1"
125 x 1 1/4"
125 x 1 1/2"
125 x 2"
125 x 2 1/2"
125 x 3"
125 x 4"
160 x 1/2"
160 x 3/4"
160 x 1"
160 x 1 1/4"
160 x 1 1/2"
160 x 2"
160 x 2 1/2"
160 x 3"
160 x 4"
200 x 2"

Clamp Saddle with Two Bolts

305

mm X inch
25 x 1/2"
25 x 3/4"
32 x 1/2"
32 x 3/4"
32 x 1"
40 x 1/2"
40 x 3/4"
40 x 1"
50 x 1/2"
50 x 3/4"
50 x 1"

*** High Pressure**

Internal (Barbed) Fittings

Elbow

405

mm X mm or inch
16 X 16
19 X 19
20 X 20
25 X 25
16 X 1/2", 3/4
19 X 1/2", 3/4", 1"
20 X 1/2", 3/4, 1"
25 X 1/2", 3/4, 1"

Tee Equal

410

mm X mm X mm
16 X 16 X 16
19 X 19 X 19
20 X 20 X 20
25 X 25 X 25
32 X 32 X 32

Tee Equal

415

mm X mm X mm
19 X 13 X 19
19 X 16 X 19
20 X 16 X 20
25 X 16 X 25
25 X 20 X 25
32 X 16 X 32
32 X 20 X 32

Tee Equal

415

mm X mm X mm
16 X 1/2" X 16
16 X 3/4" X 16
19 X 1/2" X 19
19 X 3/4" X 16
19 X 1" X 19
20 X 1/2" X 20
20 X 3/4" X 20
25 X 1/2" X 25
25 X 3/4" X 25
25 X 1" X 25
32 X 1" X 32

Connector / Joint

425

mm X mm
4 X 4
16 X 16
19 X 19
20 X 20
25 X 25
32 X 32

Starter

430

mm X mm
8 X 13
13 X 19
16 X 20
16 X 25
20 X 25

Male Adaptor w/ BSP thread

435

mm X mm
16 X 1/2"
16 X 3/4"
19 X 1/2"
19 X 3/4"
20 X 1/2"
20 X 3/4"
25 X 1/2"
25 X 3/4"
25 X 1"
32 X 1"
50 X 1 1/2"
63 X 2"

Thread Nipple

445

mm X mm
1/2"
3/4"
1"
1 1/4"
1 1/2"
2"
3"
4"

Internal (Barbed) Fittings

Reducer Nipple

447

inch X inch
3/4" X 1/2"
1" X 1/2"
1" X 3/4"
1 1/2" X 1"
2" X 1"
2" X 1 1/2"
3" X 2"
4" X 2"
4" X 3"

Bushes Male X Female

448

inch X inch
3/4" X 1/2"
1" X 3/4"
1 1/4" X 1/2"
1 1/4" X 3/4"
1 1/2" X 1/2"
1 1/2" X 3/4"
1 1/2" X 1"
2" X 1/2"
2" X 3/4"
2" X 1"
2" X 1 1/2"
3" X 2"
4" X 2"
4" X 3"

End Cap w/ Female Thread

450

inch
3/4"
1"
1 1/4"
1 1/2"
2"
2 1/2"
3"

End Plug - Male thread

452

inch
1/2"
3/4"
1"
1 1/2"
2"
3"
4"

Thread Socket - Female

453

inch
1/2"
3/4"
1"
1 1/2"
2"
3"
4"

End Stop - Barb

455

mm
4
16
19
20
25
32

End Stop - Shape 8

460

mm
16
20
25

Tee (Female x Female x Female)

465

inch
1/2"
3/4"
1"
1 1/2"
2"
3"
4"

Elbow (Female x Female)

470

inch
1/2"
3/4"
1"
1 1/2"
2"
3"
4"

On-Line Dripper

MAIS ADJUSTABLE FLOW DRIPPER

ADVANTAGES:

The dripper has the following advantages:

1. No complicated channels or nozzles which can be clogged.
2. Simple installation
3. Easy operation
4. Efficient water distribution

Mais adjustable dripper is ideal for flower beds, shrubs, trees and palms.

Code #	Discharge L/H
CAD 50	0 - 50
CAD 100	0 - 100

MAIS KEY CLIP

ADVANTAGES:

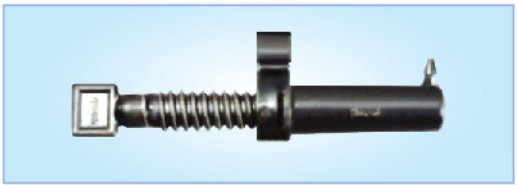
1. Accurate discharge
2. Easy to assemble, disassemble and clean
3. Easy operation
4. No clogging possibility

Turbulent Flow

Code #	Discharge	Water Pressure
CKC 4	4 L/H	1 Bar
CKC 8	8 L/H	1 Bar
CKC 16	16 L/H	1 Bar

Laminar Flow

Code #	Discharge	Water Pressure
CKC 4L	4 L/H	1 Bar
CKC 8L	8 L/H	1 Bar
CKC 16L	16 L/H	1 Bar
CKC 25L	25 L/H	1 Bar



JET SPRAY

Code #	Size
CSPF	Full Circle
CSPH	Half Circle

VARI FLOW DRIPPERS

Code #	Size
CPUL	Pulzer
CSH	Shruppler

T.K. DRIP EMITTERS

- **T.K. Non Pressure Compensating Drip Emitter**

FEATURES :
The dripper has the following advantages:

- Turbulant flow to resist blockage
- Dripper line stability provided by logs in base
- Clean easily due to its removable cap
- 4mm Barbep inlet

APPLICATION :
Landscaping, Orchards, Vineyards, Green houses, Shrubs.

- **T.K. Pressure Compensating Drip Emitter**

FEATURES:

- Pressure compensating disc to maintain flow.
- Removable cap for cleaning.
- 4mm barbed inlet.

APPLICATIONS:
All the applications of the T.K. Drip Emitters plus for slopes and longer lines.

Code #	Discharge L/H	Pressure (Bar)		
		1.00	1.5	2.00
CTK 4	4 L/HR	4.00	4.80	5.40
CTK 8	8 L/HR	9.00	9.00	10.50
CTK P 2	2 L/HR	2.05	2.10	2.10
CTK P 4	4 L/HR	4.10	4.10	4.20
CTK P 8	8 L/HR	8.20	8.20	8.30

MAIS Pipes with Built-In Drippers

"Mais Pipes with Built-in Drippers" are the most suitable drip irrigation system available for row crops, orchards, vegetables and green house. Spacing between Drippers from 30 cm up to few meters according to client demand.

ADVANTAGES :

- Water distributed evenly over all rows in the irrigated area.
- Application of fertilizer, agri-chemicals through driplines.
- Less water is utilized due to no water loss through evaporation and absorption.
- Lower water quality could be used.
- Self cleaning, labyrinth designed emitter minimize clogging.
- Less submains required due to longer driplines.
- Reduced manpower, cost and efforts.
- Dripline can be rolled up easily and re-rolled and re-used over many years.

Non Pressure Compensating Built-In Dripper (Mais G.R.)

Nominal O.D. of Pipes (mm)	W.T. (mm)	Discharge L/H
16	1.0	2 L/H
16	1.0	4 L/H
16	1.0	8 L/H
20	1.0	2 L/H
20	1.0	4 L/H
20	1.0	8 L/H

O.D. = Outside Diameter W.T. = Wall Thickness L/H = Liter per Hour

Mais G.R.

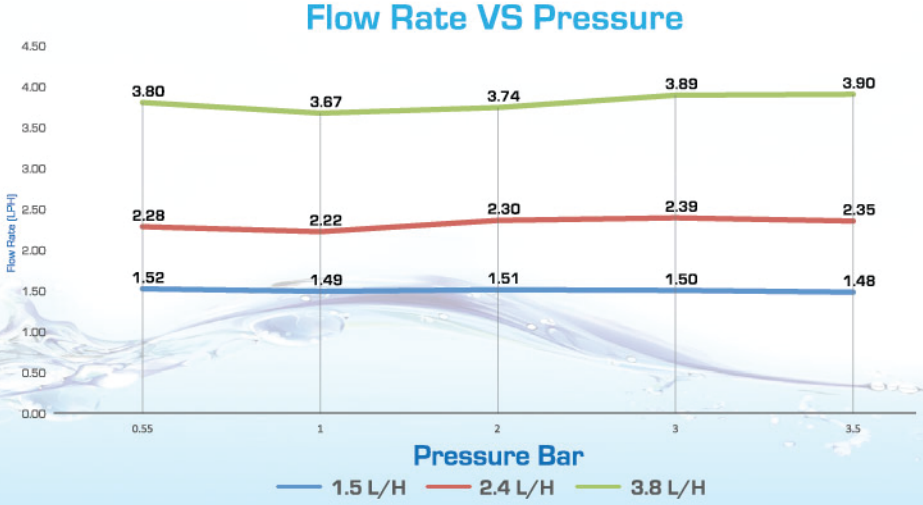
Mais PC Tone
PC Flat Inline Dripper Pipe

Product Specifications

Pipe ø (mm)					ø 16			
Product Name	Wall thickness (mm)	Discharge Rate (l/h)			Inside ø (mm)	Outside ø (mm)	Maximum Operating Pressure (m)	CV %
Mais 90 - PC	0.9	1.5	2.4	3.8	14.2	16.0	0.5 - 3.0	< 5
Mais 100 - PC	1.0	1.5	2.4	3.8	14.0	16.0	0.5 - 4.0	< 5
Mais 110 - PC	1.1	1.5	2.4	3.8	13.8	16.0	0.5 - 4.0	< 5
Mais 120 - PC	1.2	1.5	2.4	3.8	13.6	16.0	0.5 - 4.0	< 5

Features
- Integral dripper
- Turbulent flow which minimize clogging
- High resistance to mechanical stress
- Long run of laterals which reduce cost
- Low pressure needed
- High distribution uniformity
- Wide range of thickness
- Available in different flows
  1.5, 2.4, 3.8L/H

Application
- Vegetable crops
- Row crops
- Vineyards
- Fruit trees
- Olive trees
- Green houses

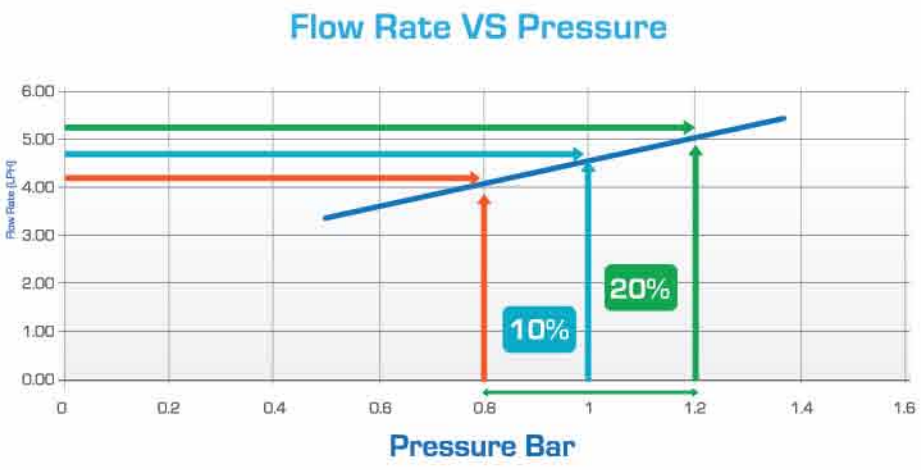


Mais Non PC Tone
Non PC Flat Inline Dripper Pipe

Features
- Integral dripper
- Turbulent flow which minimize clogging
- High resistance to mechanical stress
- Long run of laterals which reduce cost
- Low pressure needed
- High distribution uniformity
- Wide range of thickness
- Available in different flows

Application
- Vegetable crops
- Row crops
- Vineyards
- Fruit trees
- Olive trees
- Green houses

Diameter (mm) Ø			Wall Thickness mm	Flow rate LPH	Barb Factor (kd)
Nominal	Outside	Inside			
16	16	14.4	0.80	4.65	0.85



Performance Table

Maximum Pressure (Bar)	Recommended Operating Pressure (Bar)	Coefficient of variation (CV)	Emitter Constant (K)	Emitter Index (n)	Hazen-Wilams C Factor
3	1	<5	4.65	0.43	140

Mais Tape

Product Specifications

Tape ø (mm)			ø 16			
Product Name - Mill	Wall thickness (mm)	Discharge Rate (l/h)	Inside ø (mm)	Outside ø (mm)	Maximum Operating Pressure (bar)	CV %
Mais - 6	0.15	1.6	15.6	15.9	0.8	< 5
Mais - 8	0.20	1.6	15.6	16.0	1.0	< 5
Mais - 10	0.25	1.6	15.6	16.1	1.2	< 5
Mais - 12	0.30	1.6	15.6	16.2	1.5	< 5
Mais - 15	0.35	1.6	15.6	16.3	1.8	< 5
Mais - 16	0.40	1.6	15.6	16.5	2.0	< 5
Mais - 20	0.50	1.6	15.6	16.6	2.2	< 5
Mais - 24	0.60	1.6	15.6	16.8	2.5	< 5

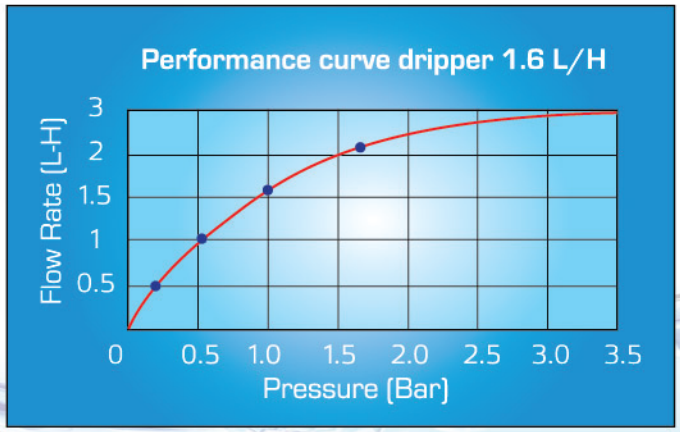
Features
- Integral dripper
- Turbulent flow which minimize clogging
- High resistance to mechanical stress
- Long run of laterals which reduce cost
- Low pressure needed
- High distribution uniformity
- Wide range of thickness
- Available in different flows

Application
- Vegetable crops
- Row crops
- Vineyards
- Fruit trees
- Olive trees
- Green houses

TAPE COUPLING

TAPE ADAPTOR

TAPE END PLUG



Bubblers

Specification and Advantages:

- Water inlet to stake 13mm.
- Water outlet from stake to bubbler 1/2" outside.
- No clogging is possible because of internal filter.
- For RA and RC type bubblers, adjusting the inside, as for RB bubbler adjusting on the top of the bubbler.

APPLICATION :
Landscaping, Orchards, Vineyards, Green houses, Shrubs.

Code #	Discharge L/H	Type	Discharge L/H
CRA	Adjustable Bubbler	RA	300 L/H
CRB	Adjustable Bubbler	RB	0 - 650 L/H
CRC	Adjustable Bubbler	RC	0 - 650 L/H
CRBC	Pressure Compensated Bubbler	RBC	0.25, 0.5, 1.0, 2.0 G.P.M

Central Pivot Accessories

Starter for Central Pivot Sprayer

Code #	Discharge L/H
0910	19 x 3/4"

U-Joint

Code #	Discharge L/H
UJ 3/4"	3/4"

Central Pivot Sprayer

Code #	Nozzle Size (mm)
0910	from 1.0 to 10.0

Plastic Sprinkler 3/4"

CSP 34

Accessories

Distribution Tubing Stake MS-2

- Length: 153 mm
- Fits distribution Tubing O.D. Range: 4.5 - 8.9 mm
- Polypropylene Construction
- Black Color to resist UV light

Code	Length (mm)
CSTKSM	153

Bubbler Stake (16 x 1/2")

Mais stake could be used for Bubblers, Pop-up Sprinkler etc. which has female thread of 1/2" stake inlet 13 mm outlet 1/2".

Code	Length (mm)
CSTK	16 x 1/2"

Pipe Stake 13 x 19

Used to fix pipes and for 4mm Tele Rizer.

Puncher

Tree to punch holes in pipes for installing online drippers

Code	Punch
CPUN	4 mm

Tree Clip

Tree Clip is used to hold plants with support string

Code	Description	Size / Type
CTC 20	Tree Clip	dia 20 mm
CTC 25	Tree Clip	dia 25 mm

Ratchet Clip

Low density pipe clip

Code	Size
CL 13	13 mm
CL 16	16 mm

Wrench For Compression Fittings

Code	Size
CR 63	32-63 mm
CR 125	75-125 mm

Mais Valves

Code	O.D. Size mm x inch
CV 1616	16 x 16"
CV 1612	16 x 1/2"
CV 1634	16 x 3/4"
CV 161	16 x 1"
CV 2020	20 x 20"
CV 2012	20 x 1/2"
CV 2034	20 x 3/4"
CV 201	20 x 1"
CV 2525	25 x 25"
CV 2512	25 x 1/2"
CV 2534	25 x 3/4"
CV 251	25 x 1"
CV 3232	32 x 32"
CV 32 1/2	32 x 1/2"
CV 32 3/4	32 x 3/4"
CV 321	32 x 1"

Code	I.D. Size mm x inch
CV 1919	19 x 19"
CV 1912	19 x 1/2"
CV 1934	19 x 3/4"
CV 191	19 x 1"

Code	Size inch x inch
CV 3434	3/4" x 34" MM
CV 3434	3/4" x 34" MF

Single Union, B.S.
Parallel Male/ Female Threaded

Size	DN mm	PN @ 20º_Bar
3/4"	20 - 3/4"	16
1"	25 - 1"	16
11/2"	40 - 11/2"	16
2"	50 -2"	16

Single Union, B.S.
Parallel Female Threaded

Size	DN mm	PN @ 20º_Bar
3/4"	20 - 3/4"	16
1"	25 - 1"	16
11/2"	40 - 11/2"	16
2"	50 - 2"	16
3"	80 - 3"	10
4"	100 - 4"	10

Valve BOX

Product	Description	Shape
Valve Box 6"	Series 610 (6" Round Valve Box)	
Valve Box 10"	Series 910 (10" Round Valve Box)	
Valve Box 12"	Series 1419 (Standard 12" Rectangular Valve Box)	
Valve Box 20"	Series 1320 Rectangular Jumbo Valve Box	
Valve Box 24"	Series 1324 Super Jumbo Rectangular Valve Box	

Backwash Control Valve

• Description

Backwash Control valves are the 3-way control valves which are operated by line pressure or an external pneumatic pressure. Diaphragm-pilot valve assembly works as functioning in two valve operations (Normal Filtration Flow and Backwash Flow).

Valve Operation

- Normal Filtration Flow:

  The valve inlet is open and allows the passage of water from the pump to the filter. And in these case the Drain outlet is close.

- Backwash Flow:

  The valve inlet is closed and allows the passage of water from filter to drain outlet. The valve inlet opening is close.

Available Sizes:

4" x 3" x 4"
3" x 2" x 3"

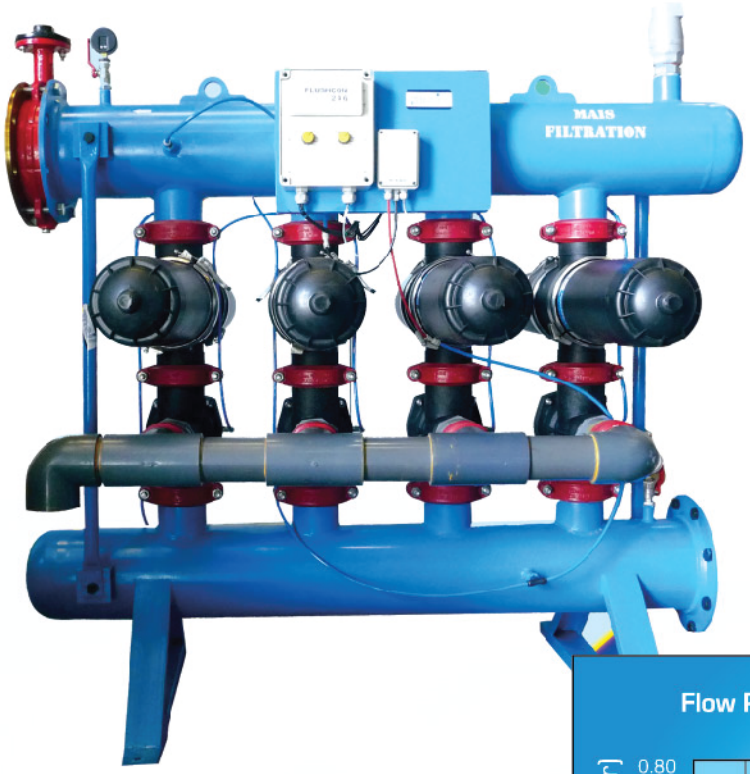
Automatic Filtration Backwash

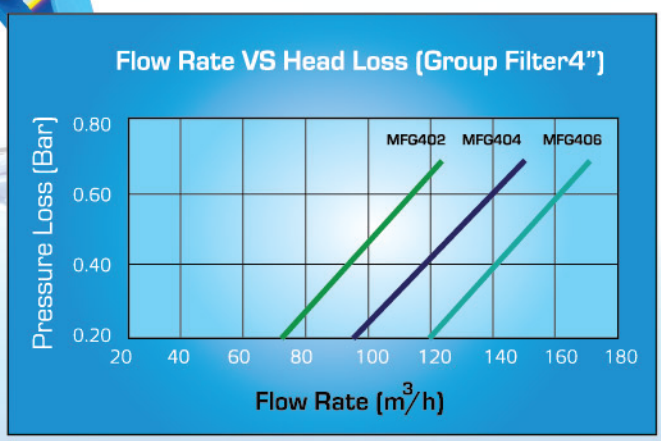
FEATURES

- Self-cleaning
- Manufactured from chemical resistant material & fiber reinforced plastic.
- With a longer spine assembly and larger discs, the Mais Filter has a 25% larger filtration area than some competitive filters.
- Quick and easy installation.
- Less pressure required for cleaning.
- Filter discs are available in various filtration grades (filters 120 Mesh).
- Reducing pump size & energy costs.
- Agriculture, Landscape and Nursery applications, Vineyards and orchards, Industrial sites.

SPECIFICATION

Description	Materials
Filter body	Reinforced polypropylene/ Reinforced polyamide
Clamp	S.S. Stainless steel
Disc set	(Element retaining ring) : Reinforced polypropylene
Spine	Reinforced polyamide
Rubber	Polycarbonate





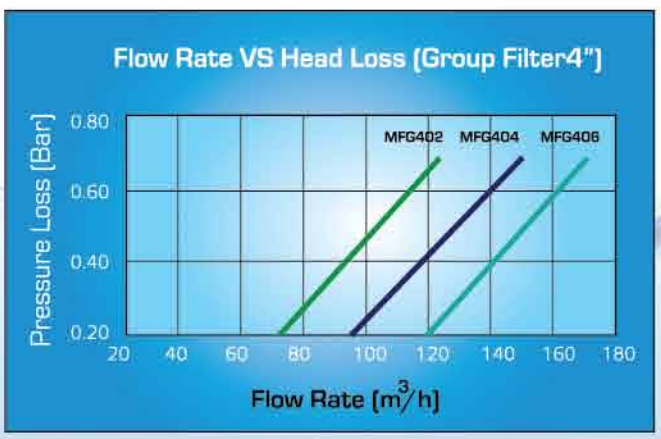
Semi-Automatic Filtration Unit

FEATURES

- Self-cleaning
- Manufactured from chemical resistant material & fiber reinforced plastic.
- With a longer spine assembly and larger discs, the Mais Filter has a 25% larger filtration area than some competitive filters.
- Quick and easy installation.
- Less pressure required for cleaning.
- Filter discs are available in various filtration grades (filters 120 Mesh).
- Reducing pump size & energy costs.
- Agriculture, Landscape and Nursery applications, Vineyards and orchards, Industrial sites.

SPECIFICATION

Description	Materials
Filter body	Reinforced polypropylene/ Reinforced polyamide
Clamp	S.S. Stainless steel
Disc set	(Element retaining ring) : Reinforced polypropylene
Spine	Reinforced polyamide
Rubber	Polycarbonate



Double Twin Filter

FEATURES

- Manufactured from chemical resistant material & fiber reinforced plastic.
- With a longer spine assembly and larger discs, the Mais Filter has a 25% larger filtration area than some competitive filters.
- Quick and easy installation.
- Less pressure required for cleaning.
- Reducing pump size & energy costs.
- Recycled water for irrigation.

The plastic Filter is best suited for applications with surface water where the main contaminants are light particles, like algae and other organic matter commonly found in canals, rivers and reservoirs.

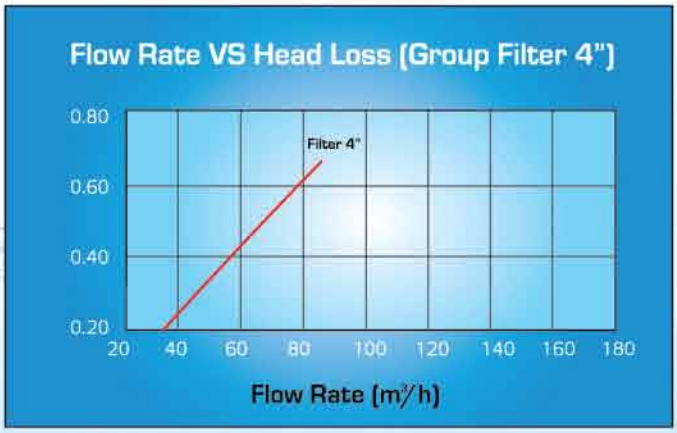
Can be BSP threaded or Victaulic.
Can be 2", 3" and 4"
Manual, Semi Automatic & Automatic back washing.

SPECIFICATION

Description	Materials
Filter body	Reinforced polypropylene/ Reinforced polyamide
Clamp	S.S. Stainless steel
Disc set	(Element retaining ring) : Reinforced polypropylene
Spine	Reinforced polyamide
Rubber	Polycarbonate

APPLICATIONS:

- Agricultural
- Industrial



Plastic Disc Filter

SIZE	Filtration Grade	Model	Max. Pressure	Max. Flow
2″	130 Micron 120 Mesh	200	10 Bar	15 m^3/ Hr
3″	130 Micron 120 Mesh	300	10 Bar	35 m^3/ Hr

ADVANTAGES
- Excellent Performance
- Easy Cleaning
- U.V. Resistant
- Easy Installing

ADAPTORS to use with NPT and VICTAULIC
- 2″ BSP Female x 2″ NPT Male
- 2″ BSP Female x 2″ Victaulic
- 3″ BSP Female x 3″ NPT Male
- 3″ BSP Female x 3″ Victaulic

USAGE
- Agriculture
- Industry

In Line Disc Filters

SIZE
Disc Filter 1″ Large
Disc Filter 1″ Small
Disc Filter 3/4″ Large
Disc Filter 3/4″ Large

ADVANTAGES
- Easy Cleaning
- Easy Installing
- U.V. Resistant

USAGE
- Gardens
- Plastic Houses
- Green Houses
- Landscaping

Nonwoven Fabrics for Agriculture

Product Line:
Double S beam production line, annual output 6000 tons / year.

Production Specification:
Weights: from 15-200 gsm. ***Width:*** Max width 3.20 m.
Length: According to customer requirements.
Color: Any color, according to customer requirements.
Special treatment products: Anti blood, Anti bacteria, Anti static, Anti flame, Hydrophilic, UV stabilizer, etc.

Product Properties:
1. PP material is non toxic, non stimulation. No waste water , waste gas, waste residues in the process of production.
2. Light, soft, perfect uniformity and comfortable feeling, uniform MD and CD Strength, high tensile strength, no depigmentation
3. Perfect air permeability and water repellency, perfect prevention from bacteria and insect.
4. Weak resistance to the sunlight, easy to decompose and friendly to the environment.
5. Stitch sewing, ultrasonic sewing and hot welding sewing.




Plastic Sheets

Mais Plastic Sheets are used to Crop Protection.

Application & Advantages:
- Prevent Frost damage
- Trap humidity
- Maintain temperature
- Protect from dust and air pollution

Specifications:
- It's available in rolls of 105 meters / roll, or according to Client's request.
- Width 2.5 meters.
- Thickness 80 micron and up to 100 micron according to Client's request.
- Color white.

Company's Certificate

DAS CERTIFICATION

Quality Management Systems

Certificate of Approval

This is to certify that the QMS of

Mais Co. for Irrigation Systems Ltd.

PO Box 42801, Riyadh 11551,

Saudi Arabia

Has been assessed and found to meet the requirements of

ISO 9001:2008

This certificate is valid for the following scope of operations:

Designing, Manufacturing, Installation of a complete range of water irrigation systems and related Accessories

Date of Certificate Issue:	16th March 2015
1st Surveillance Audit Due: 16th March 2016	
2nd Surveillance Audit Due: 16th March 2017	
Certificate Valid until:	15th March 2018
Certificate Number:	67518/KSA/Q

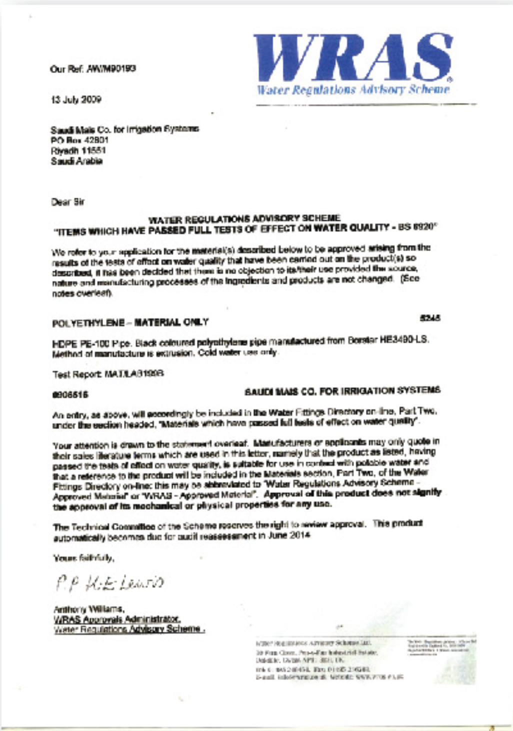
Authorised by:

Stan Wright
Chief Executive

DAS Certification

Date of Issue: 16th March 2015

Registration House, 22b Church Street
Rushden, Northamptonshire NN10 9YT
Tel: 01933 381859
Email: info@dascertification.co.uk
Web: www.dascertification.co.uk
Company number: 03384526



WRAS
Water Regulations Advisory Scheme

Our Ref: AW/M90193

13 July 2009

Saudi Mais Co. for Irrigation Systems
PO Box 42801
Riyadh 11551
Saudi Arabia

Dear Sir

WATER REGULATIONS ADVISORY SCHEME
"ITEMS WHICH HAVE PASSED FULL TESTS OF EFFECT ON WATER QUALITY - BS 6920"

We refer to your application for the material(s) described below to be approved arising from the results of the tests of effect on water quality that have been carried out on the product(s) so described, it has been decided that there is no objection to its/their use provided the source, nature and manufacturing processes of the ingredients and products are not changed. (See notes overleaf).

POLYETHYLENE – MATERIAL ONLY **5245**

HDPE PE-100 Pipe. Black coloured polyethylene pipe manufactured from Borstar HE3490-LS. Method of manufacture is extrusion. Cold water use only.

Test Report: MAT/LAB199B

0906515 **SAUDI MAIS CO. FOR IRRIGATION SYSTEMS**

An entry, as above, will accordingly be included in the Water Fittings Directory on-line, Part Two, under the section headed, "Materials which have passed full tests of effect on water quality".

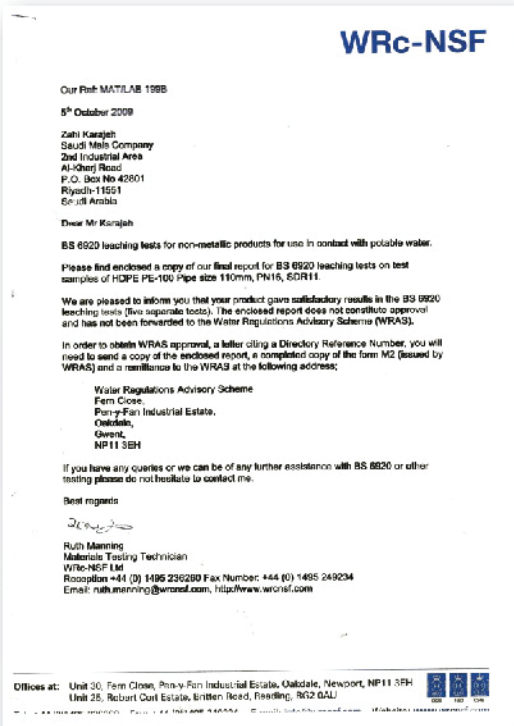
Your attention is drawn to the statement overleaf. Manufacturers or applicants may only quote in their sales literature terms which are used in this letter, namely that the product as listed, having passed the tests of effect on water quality, is suitable for use in contact with potable water and that a reference to the product will be included in the Materials section, Part Two, of the Water Fittings Directory on-line: this may be abbreviated to "Water Regulations Advisory Scheme - Approved Material" or "WRAS - Approved Material". **Approval of this product does not signify the approval of its mechanical or physical properties for any use.**

The Technical Committee of the Scheme reserves the right to review approval. This product automatically becomes due for audit reassessment in June 2014.

Yours faithfully,

P.P. H.E. Lewis

Anthony Williams,
WRAS Approvals Administrator,
Water Regulations Advisory Scheme.



WRc-NSF

Our Ref: MAT/LAB 199B

5th October 2009

Zahi Karajeh
Saudi Mais Company
2nd Industrial Area
Al-Kharj Road
P.O. Box No 42801
Riyadh-11551
Saudi Arabia

Dear Mr Karajeh

BS 6920 leaching tests for non-metallic products for use in contact with potable water.

Please find enclosed a copy of our final report for BS 6920 leaching tests on test samples of HDPE PE-100 Pipe size 110mm, PN16, SDR11.

We are pleased to inform you that your product gave satisfactory results in the BS 6920 leaching tests (five separate tests). The enclosed report does not constitute approval and has not been forwarded to the Water Regulations Advisory Scheme (WRAS).

In order to obtain WRAS approval, a letter citing a Directory Reference Number, you will need to send a copy of the enclosed report, a completed copy of the form M2 (issued by WRAS) and a remittance to the WRAS at the following address;

Water Regulations Advisory Scheme
Fern Close,
Pen-y-Fan Industrial Estate,
Oakdale,
Gwent,
NP11 3EH

If you have any queries or we can be of any further assistance with BS 6920 or other testing please do not hesitate to contact me.

Best regards

Ruth Manning
Materials Testing Technician
WRc-NSF Ltd
Reception +44 (0) 1495 236260 Fax Number: +44 (0) 1495 249234
Email: ruth.manning@wrcnsf.com, http://www.wrcnsf.com

Offices at: Unit 30, Fern Close, Pen-y-Fan Industrial Estate, Oakdale, Newport, NP11 3EH
Unit 28, Robert Cort Estate, Britten Road, Reading, RG2 0AU

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