

From :QC Dept.  
 To: General Manager  
 Subject : New received ML164 Drippers

5th March 2012

Dear Luay

Today a sample of 24 drippers were inserted in GR4 & tested at different operating pressure & results as the following:

Pipe Inner diameter = 14.0mm      Pipe outer diameter = 15.8mm

Pipe wall thickness :

0,93	0,89	0,93	0,85	0,85	0,83	0,91	0,91
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Average thickness = 0,89 mm

Dripper length = 32mm

Dripper weight = 1.63g

Dripper perforating length = 5.8mm

Pressure	0.5 bar	0.8 bar	1 bar	1.5bar	2.0 bar	2.5 bar
Sample 1	2,84	3,71	3,98	4,82	5,51	6,46
Sample 2	2,78	3,55	3,98	4,76	5,33	6,21
Sample 3	2,98	3,69	3,99	4,96	5,69	6,31
Sample 4	3	3,73	4,1	5,09	5,79	6,43
Sample 5	2,91	3,5	4	4,84	5,65	6,24
Sample 6	3	3,78	4,05	4,99	5,76	6,45
Sample 7	2,96	3,7	4,1	5,01	5,69	6,43
Sample 8	2,93	3,71	4,08	4,99	5,85	6,52
Sample 9	2,97	3,74	4,15	5,07	5,76	6,51
Sample 10	2,95	3,64	4,02	4,91	5,66	6,29
Sample 11	3	3,74	4,14	5,02	5,84	6,53
Sample 12	3,04	3,82	4,16	5,16	5,98	6,51
Sample 13	2,81	3,62	4,03	5,52	5,79	5,92
Sample 14	2,85	3,5	3,93	5,03	5,63	6,21
Sample 15	2,87	3,6	3,96	4,71	5,36	5,86
Sample 16	3,01	3,72	4,07	5,3	5,94	6,54
Sample 17	2,81	3,55	4,02	4,64	5,5	5,93
Sample 18	3	3,75	4,03	5,1	5,66	6,24
Sample 19	2,8	3,46	4,07	4,75	5,62	5,92
Sample 20	3,13	3,84	4,03	5,1	5,72	6,58
Sample 21	3	3,64	4,14	5,11	5,85	6,33
Sample 22	2,95	3,93	4,01	4,84	5,51	6,27
Sample 23	3,09	3,72	4,14	5,55	6,01	6,83
Sample 24	2,97	3,63	4,12	5,19	5,89	6,61

Average	<b>2,94</b>	<b>3,68</b>	<b>4,05</b>	<b>5,02</b>	<b>5,71</b>	<b>6,34</b>
SD	0,09	0,11	0,07	0,23	0,18	0,25
COV %	3,15	3,11	1,63	4,53	3,14	3,88
EUC %	96,3	96,6	95,5	96,7	95,4	94,9

Observation

1 - Flow rate results are good (4.06 LPH @ 1 bar) .