

**MANUFACTURING BOM – Prototype as built**

ITEM	DESCRIPTION	PART NUMBER	QTY	UNIT COST
1	25mm BSP Female Tee	(T25F)	3	2.97
2	25mm BSP Female Elbow	(7208/25)	1	2.25
3	25mm BSP Male Nipple	(NP-25)	5	0.91
4	25mm Hex Screw Plug	HSP25	3	0.87
5	12V 25mm normally closed solenoid valves	(SV25-12)	2	30.36
6	15x6mm Reducing Bush	HRB1506	2	1.19
7	25x15mm Reducing Bush	HRB2515	5	1.77
8	15mm Male Hose Tail	HHT15	3	2.13
9	16mm End Plug	LEP16	1	1.16
10	16mm Lateral Inline Filter	LILF16	2	5.19
11	Solenoid valve, EVR 6 - normally open	032L8085	1	72.5
12	Solenoid coil, BE230AS	018F6701	1	72.5
13	PVC Clear Tube - 16mm - per meter	PVC-30-1016	1	3.82
14	8mm – 16mm Worm Drive Hose Clamp	8-16/9W4P	2	1.9
15	Norma 9mm S/Steel Hose Clamps – 16mm-25mm	16-25/9W4P	12	1.9
16	Mechpro Connector 1/4in M	MPC14M	3	6.49
17	O2 Sensor	AFR722-EE26	1	93
18	Temp/Humidity sensor	DHT11	1	11.9
19	Digital barometric pressure sensor	BMP180	2	22.9
20	Raspberry Pi 3B+	3B+	1	99.9
21	Raspberry Pi shield and ADC	XC9050	1	17.9
22	Raspberry Pi GPIO expansion	XC9040	1	16.9
23	Relay board 4 ch 12v	XC4419	1	17.9
24	Battery SLA 12v 6Ah	SB2485	1	36.9
25	DC-DC voltage regulator (variable)	XC4514	1	10.9
26	Fuelmiser Air Flow Sensor	VDO - CAF034	1	252.75

**Total cost**

<b>NZ SUPPLIER</b>	<b>PRICE (NZD)</b>	<b>Price (USD)</b>
The Water Sprinkler Shop	8.91	5.35
The Water Sprinkler Shop	2.25	1.35
The Water Sprinkler Shop	4.55	2.73
Irrigation Express	2.61	1.57
The Water Sprinkler Shop	60.72	36.43
Irrigation Express	2.38	1.43
Irrigation Express	8.85	5.31
Irrigation Express	6.39	3.83
Irrigation Express	1.16	0.70
Irrigation Express	10.38	6.23
Philip Smith	72.50	43.50
Philip Smith	72.50	43.50
Irrigation Express	3.82	2.29
Irrigation Express	3.80	2.28
Irrigation Express	22.80	13.68
Repco	19.47	11.68
Repco	93.00	55.80
Jaycar	11.90	7.14
Jaycar	22.90	13.74
Jaycar	99.90	59.94
Jaycar	17.90	10.74
Jaycar	16.90	10.14
Jaycar	17.90	10.74
Jaycar	36.90	22.14
Jaycar	10.90	6.54
Repco	252.75	151.65
	<b>884.04</b>	<b>530.42</b>