

Unirain F4444

Full Circle Impact Sprinkler

Low and Medium flow Plastic



Application

For general agricultural use, medium and high flows, it is designed specially for travelling systems, mainly CENTER PIVOT and LINEAR MOVES. The special conditions of these machines suggest using a kind of sprinklers that differs from those traditionally used on solid sets.

It is also recommended for undertree irrigation.

Advantajes

- Two twin water outlets, both for main nozzles. This eliminates secondary nozzle plugging and provides a higher flow per sprinkler, which means a lower number of sprinklers in use.
- Its 8° water stream angle greatly minimises the effects of wind when installed on PIVOTS (10 to 14ft high), reducing evaporation and improving uniformity.
- Three different types of water guide vanes to achieve the desired coverage and spray balance according to the available system pressure.

Technical specifications

- Full circle impact sprinkler.
- 3/4" M base thread
- Two main nozzles
- 8° Nozzle trajectory angle
- Pressure range: 1,38 - 5,52 Bar
- Nozzle range: 9/64" (3,57mm) - 15/64" (5,95mm)
- Acetal resin body and bearing.
- Polyamide fibreglass arm.
- Protection cap against UV radiation.
- Fulcrum pin and springs made of stainless steel.
- Expanded fulcrum, pin upper end diameter for a better fitting into the sprinkler body.
- Color-coded anti abrasive acetal resin nozzles carved in millimetres and inches for a better identification.
- It can be assembled with plastic or brass nozzles.
- Backturn lock between the sprinkler body and the compression spring.



F4444

	Pressure (bar)	Nozzles	Vanes
HIGH	4.14	3PRN ó 3FCN	30 V
MEDIUM	2.76	3PRN ó 3FCN	WITHOUT VANE
LOW	2.10	3PRN	30RV
VERY LOW	1.38	3PRN	30BV

F4444	PRESSURE (Bar)	NOZZLES 9/64" + 9/64" L/H R(m)		NOZZLES 5/32" + 5/32" L/H R(m)		NOZZLES 11/64" + 11/64" L/H R(m)		NOZZLES 3/16" + 3/16" L/H (v) R(m)		NOZZLES 13/64" + 13/64" L/H R(m)		NOZZLES 7/32" + 7/32" L/H R(m)		NOZZLES 15/64" + 15/64" L/H R(m)	
		TWO NOZZLES	1.38	1138	9.4	1383	10.1	1641	9.9	1895	9.9	2155	10.0	2419	10.0
	1.72	1271	9.7	1546	10.2	1832	10.2	2116	10.3	2408	10.3	2706	10.3	3006	10.3
	2.07	1389	9.9	1691	10.3	2003	10.4	2315	10.5	2637	10.5	2965	10.5	3297	10.5
	2.41	1498	10.2	1824	10.4	2161	10.5	2499	10.6	2847	10.7	3204	10.7	3564	10.7
	2.76	1599	10.3	1947	10.5	2307	10.6	2669	10.7	3043	10.8	3426	10.9	3813	10.9
	3.10	1695	10.4	2063	10.6	2444	10.7	2829	10.8	3227	10.9	3634	11.0	4048	11.0
	3.45	1785	10.5	2174	10.7	2574	10.8	2980	10.9	3401	11.0	3832	11.0	4269	11.1
	3.79	1870	10.6	2278	10.8	2697	10.9	3124	11.0	3566	11.1	4020	11.1	4480	11.2
	4.14	1952	10.7	2375	10.9	2815	11.0	3262	11.1	3724	11.2	4199	11.2	4682	11.3
	4.48	2030	10.8	2469	10.9	2928	11.1	3393	11.1	3876	11.3	4371	11.3	4875	11.4
	4.83	2105	10.8	2560	11.0	3036	11.1	3520	11.2	4022	11.3	4537	11.4	5062	11.5
	5.17	2178	10.9	2646	11.0	3141	11.2	3642	11.3	4162	11.4	4697	11.5	5241	11.6
	5.52	2248	10.9	2731	11.1	3242	11.2	3760	11.3	4298	11.4	4851	11.5	5415	11.6

F4444P	PRESSURE (Bar)	NOZZLES 9/64" L/H R(m)		NOZZLES 5/32" L/H R(m)		NOZZLES 11/64" L/H R(m)		NOZZLES 3/16" L/H (v) R(m)		NOZZLES 13/64" L/H R(m)		NOZZLES 7/32" L/H R(m)		NOZZLES 15/64" L/H R(m)	
		ONE NOZZLE AND PLUG	1.38	581	9.4	713	10.1	859	9.9	1017	9.9	1187	10.0	1370	10.0
	1.72	649	9.7	797	10.2	959	10.2	1135	10.3	1325	10.3	1528	10.3	1745	10.3
	2.07	710	9.9	872	10.3	1049	10.4	1241	10.5	1449	10.5	1671	10.5	1908	10.5
	2.41	766	10.2	940	10.4	1132	10.5	1339	10.6	1563	10.7	1802	10.7	2057	10.7
	2.76	818	10.3	1004	10.5	1209	10.6	1430	10.7	1669	10.8	1924	10.9	2196	10.9
	3.10	867	10.4	1065	10.6	1281	10.7	1515	10.8	1768	10.9	2038	11.0	2327	11.0
	3.45	914	10.5	1121	10.7	1349	10.8	1596	10.9	1862	11.0	2147	11.0	2450	11.1
	3.79	958	10.6	1175	10.8	1414	10.9	1673	11.0	1951	11.1	2250	11.1	2567	11.2
	4.14	1000	10.7	1227	10.9	1476	11.0	1746	11.1	2037	11.2	2348	11.2	2679	11.3
	4.48	1040	10.8	1276	10.9	1535	11.1	1816	11.1	2118	11.3	2442	11.3	2786	11.4
	4.83	1079	10.8	1324	11.0	1592	11.1	1883	11.2	2197	11.3	2532	11.4	2889	11.5
	5.17	1116	10.9	1370	11.0	1647	11.2	1948	11.3	2272	11.4	2619	11.5	2988	11.6
	5.52	1153	10.9	1414	11.1	1701	11.2	2011	11.3	2346	11.4	2704	11.5	3084	11.6

F4444V	PRESSURE (Bar)	NOZZLES 9/64" + 9/64" L/H R(m)		NOZZLES 5/32" + 5/32" L/H R(m)		NOZZLES 11/64" + 11/64" L/H R(m)		NOZZLES 3/16" + 3/16" L/H (v) R(m)		NOZZLES 13/64" + 13/64" L/H R(m)		NOZZLES 7/32" + 7/32" L/H R(m)		NOZZLES 15/64" + 15/64" L/H R(m)	
		TWO NOZZLES AND VANE TO HIGH RANGE	2.41	1498	10.7	1824	10.9	2161	11.0	2499	11.1	2847	11.2	3204	11.2
	2.76	1599	10.9	1947	11.0	2307	11.1	2669	11.2	3043	11.3	3426	11.4	3813	11.4
	3.10	1695	11.0	2063	11.1	2444	11.2	2829	11.3	3227	11.4	3634	11.5	4048	11.5
	3.45	1785	11.1	2174	11.2	2574	11.3	2980	11.4	3401	11.5	3832	11.5	4269	11.6
	3.79	1870	11.2	2278	11.3	2697	11.4	3124	11.5	3566	11.6	4020	11.6	4480	11.7
	4.14	1952	11.3	2375	11.4	2815	11.5	3262	11.6	3724	11.7	4199	11.7	4682	11.9
	4.48	2030	11.4	2469	11.4	2928	11.6	3393	11.6	3876	11.9	4371	11.9	4875	12.0
	4.83	2105	11.5	2560	11.5	3036	11.6	3520	11.7	4022	11.9	4537	12.0	5062	12.1
	5.17	2178	11.5	2646	11.5	3141	11.7	3642	11.9	4162	12.0	4697	12.1	5241	12.2
	5.52	2248	11.6	2731	11.6	3242	11.7	3760	11.9	4298	12.0	4851	12.1	5415	12.2

F4444PV	PRESSURE (Bar)	NOZZLES 9/64" L/H R(m)		NOZZLES 5/32" L/H R(m)		NOZZLES 11/64" L/H R(m)		NOZZLES 3/16" L/H (v) R(m)		NOZZLES 13/64" L/H R(m)		NOZZLES 7/32" L/H R(m)		NOZZLES 15/64" L/H R(m)	
		ONE NOZZLE, PLUG AND VANE TO HIGH RANGE	2.41	766	10.7	940	10.9	1132	11.0	1339	11.1	1563	11.2	1802	11.2
	2.76	818	10.9	1004	11.0	1209	11.1	1430	11.2	1669	11.3	1924	11.4	2196	11.4
	3.10	867	11.0	1065	11.1	1281	11.2	1515	11.3	1768	11.4	2038	11.5	2327	11.5
	3.45	914	11.1	1121	11.2	1349	11.3	1596	11.4	1862	11.5	2147	11.5	2450	11.6
	3.79	958	11.2	1175	11.3	1414	11.4	1673	11.5	1951	11.6	2250	11.6	2567	11.7
	4.14	1000	11.3	1227	11.4	1476	11.5	1746	11.6	2037	11.7	2348	11.7	2679	11.9
	4.48	1040	11.4	1276	11.4	1535	11.6	1816	11.6	2118	11.9	2442	11.9	2786	12.0
	4.83	1079	11.5	1324	11.5	1592	11.6	1883	11.7	2197	11.9	2532	12.0	2889	12.1
	5.17	1116	11.5	1370	11.5	1647	11.7	1948	11.9	2272	12.0	2619	12.1	2988	12.2
	5.52	1153	11.6	1414	11.6	1701	11.7	2011	11.9	2346	12.0	2704	12.1	3084	12.2

Data obtained under ideal test conditions. It can be affected by wind, bad hydraulic conditions or other adverse factors.
Highest point of the jet above the nozzle: 0.8 m (using standard nozzle 3 / 16" to 3.45 Bar)
Throw radius jets achieved with the 0.9m lift. Shaded areas not recommended.
(*) Standard Nozzle.

L/H: Liters Per Minute
R(m): Throw Radius (meter)

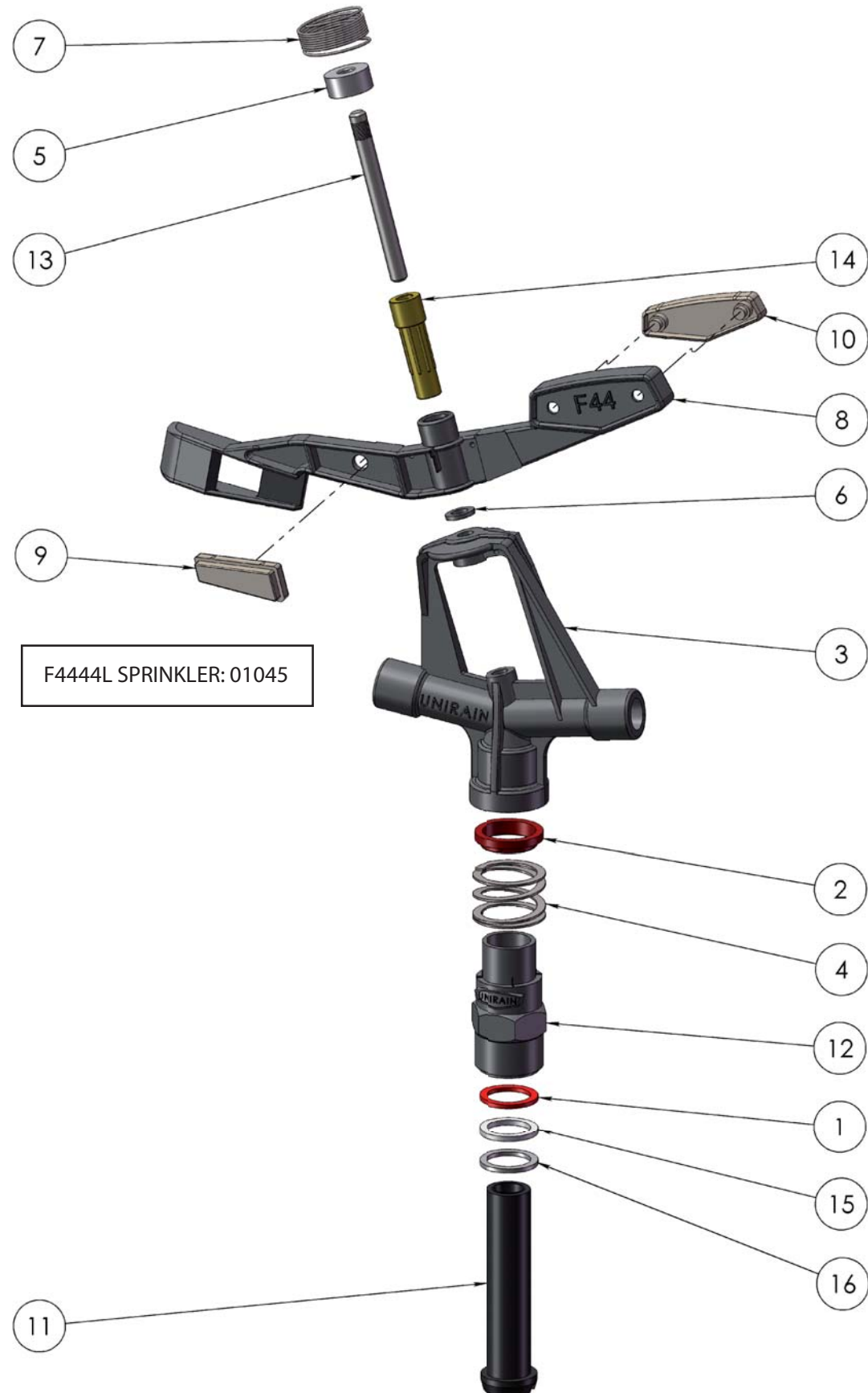
Due to the large number of possible combinations of nozzles, only the most common ones are represented.
To find information relating to other combinations, please advise factory.

WARRANTY AND EXCLUSIONS

The manufacturer guarantees its products for direct customer against any defects in materials or manufacture for a period of two years from the original date of purchase, only when the products have been used under normal operating conditions. The manufacturer assumes no responsibility for installation, removal or repairs carried out by unauthorised personnel. The manufacturer's liability under this warranty is limited to the replacement or repair of defective parts and the manufacturer does not accept responsibility for damages to crops or any other consequential damages deriving from defects in the products covered by this warranty.

THE PRESENT WARRANTY SUPERCEDES AND VOIDS ALL OTHER WARRANTIES, WHETHER EXPRESS OR IMPLIED, INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSES OR ANY OTHER ATTRIBUTING LIABILITY TO THE MANUFACTURER.

No agent, employee or representative of the manufacturer is authorised to void, alter or add to the conditions contained in this warranty, nor to take responsibility for, nor to make guarantees not specified herein.



COMPONENT NUMBER	CODE	DESCRIPTION	MATERIAL	QUANTITY
1	00252	Bearing Upper Washer	Anti Hydrolisis PU	1
2	00255	Bearing Body Lock	High Density PE	1
3	00326	Sprinkler BodyF4444	POM	1
4	06151	Bearing Spring	Stainless Steel	1
5	06161	Swing Arm Cap	PE	1
6	06162	Swing Arm Support Washer	NBR	1
7	06183	Arm Spring 3/4" Series	Stainless Steel	1
8	06514	F44 Sprinkler Arm F44	PA6 + Fiber Glass	1
9	06515	Front Counterweight	ZAMAK	1
10	06516UNI	Unirain Back Counterweight	ZAMAK	1
11	06517	Bearing pin P45 / F44	POM	1
12	06518UNI	Bearing body F44	POM	1
13	06519	fulcrum pin	Stainless Steel	1
14	06636	Arm Bearing	POM	1
15	06736	Bearing Intermediate washer	High Density PE	1
16	07459	Bearing Lower washer	NBR	1

Notes

Process/Manufacturer UNIRAIN	Size A3	Material	Code 01044
	Scale 1:2	Name F4444 Sprinkler	
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