Unirain F3030

Full Circle Impact Sprinkler Low and Medium flow Brass



Application

Designed for agricultural use, medium and high flows, and specially designed for travelling systems, mainly CENTER PIVOT and LINEAR MOVES. TThe special characteristics of these machines make it advisable to use sprinklers different from those traditionally used on solid pipe systems. It's also very suitable for undertree irrigation.

Advantages

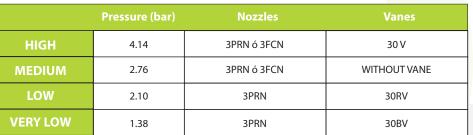
- It features two twin water outlets, both for main nozzle. This eliminates secondary nozzle plugging and provides a higher flow per sprinkler which means a lower amount of sprinklers in use.
- Its 10° water outlet angle greatly minimises the effects of wind when installed on PIVOTS (3 to 4 meters high), reducing evaporation and improving uniformity.
- Three different vanes can be used to achieve the desired coverage and spray balance according to the available system pressure.

Technical specifications

- Full circle impact sprinkler
- 34" base thread male
- Two main nozzles
- 10° nozzle trajectory angle.
- Pressure range: 1.38 5.52 Bar
- Nozzle range: 9/64" (3,57mm) 9/32" (7,14mm)
- Body, arm and bearing assembly made of brass.
- 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 (brass nozzles to be optionally assembled)
- Backturn lock between the sprinkler body and the bearing spring.



	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





F3030	PRESSURE (Bar)	NOZ 9/64″ - L/H		NOZ 5/32" - L/H		NOZ 11/64" - L/H	ZLES + 11/64" R(m)	NOZ 3/16" - L/H	ZLES + 3/16" R(m)	13/64"	ZLES + 13/64" ») R(m)	NOZ 7/32" - L/H	ZLES + 7/32" R(m)		ZLES + 15/64" R(m)	NOZ 1/4″ - L/H		NOZ 17/64" - L/H	ZLES + 17/64 R(m)
	1.38	-,	(,	-7.1	()	1711	10.2	2029	10.2	2359	10.3	2654	10.3	2942	10.3	3266	10.4	3715	10.4
TWO NOZZLES	1.72					1910	10.5	2267	10.6	2635	10.6	2965	10.6	3285	10.6	3647	10.7	4132	10.8
	2,07			1731	10.6	2092	10.7	2481	10.8	2885	10.8	3247	10.8	3596	10.8	3990	10.9	4506	11.0
	2.41	1513	10.5	1871	10.7	2258	10.8	2678	10.9	3115	11.0	3506	11.0	3881	11.0	4306	11.1	4849	11.1
	2.76	1626	10.6	2003	10.8	2413	10.9	2862	11.0	3329	11.1	3748	11.2	4146	11.2	4599	11.3	5167	11.3
	3.10	1731	10.7	2130	10.9	2558	11.0	3034	11.1	3529	11.2	3974	11.3	4395	11.3	4874	11.4	5465	11.4
	3.45	1828	10.8	2251	11.0	2695	11.1	3197	11.2	3719	11.3	4188	11.3	4630	11.4	5135	11.5	5746	11.5
	3.79	1926	10.9	2362	11.1	2825	11.2	3352	11.3	3899	11.4	4392	11.4	4853	11.5	5382	11.5	6013	11.6
	4.14	2003	11.0	2476	11.2	2950	11.3	3500	11.4	4072	11.5	4586	11.5	5067	11.6	5618	11.6	6267	11.7
	4.48	2112	11.1	2566	11.2	3070	11.4	3642	11.4	4237	11.6	4773	11.6	5272	11.7	5845	11.7	6511	11.8
	4.83	2158	11.1	2658	11.3	3185	11.4	3778	11.5	4396	11.6	4952	11.7	5469	11.8	6063	11.8	6745	11.9
	5.17	2248	11.2	2748	11.3	3296	11.5	3910	11.6	4549	11.7	5125	11.8	5659	11.9	6273	11.9	6970	12.0
	5.52	2294	11.2	2839	11.4	3403	11.5	4037	11.6	4698	11.7	5293	11.8	5842	11.9	6476	12.0	7187	12.1

F3030P	PRESSURE	9/64"		5/32"		NOZZLES 11/64"		3/	NOZZLES 3/16"		NOZZLES 13/64"		ZLES 32"	NOZZLES 15/64"		NOZZLES 1/4"		NOZZLES 17/64"			32"
	(Bar)	L/H	R(m)	L/H	R(m)	L/H	R(m)	L/H	R(m)	L/H (*) R(m)	L/H	R(m)	L/H	R(m)	L/H	R(m)	L/H	R(m)	L/H	R(m)
	1.38					864	10.2	1028	10.2	1205	10.3	1395	10.3	1599	10.3	1817	10.4	2047	10.4	2290	10.4
ONE NOZZLE	1.72					966	10.5	1148	10.6	1346	10.6	1558	10.6	1786	10.6	2027	10.7	2284	10.8	2554	10.8
AND PLUG	2,07			875	10.6	1057	10.7	1257	10.8	1473	10.8	1705	10.8	1953	10.8	2217	10.9	2497	11.0	2791	11.1
	2.41	766	10.5	945	10.7	1142	10.8	1357	10.9	1589	11.0	1840	11.0	2107	11.0	2391	11.1	2692	11.1	3008	11.2
	2.76	819	10.6	1009	10.8	1220	10.9	1449	11.0	1698	11.1	1965	11.2	2250	11.2	2552	11.3	2872	11.3	3209	11.3
	3.10	868	10.7	1070	10.9	1293	11.0	1536	11.1	1799	11.2	2082	11.3	2383	11.3	2703	11.4	3041	11.4	3396	11.4
	3.45	915	10.8	1128	11.0	1362	11.1	1618	11.2	1895	11.3	2192	11.3	2509	11.4	2845	11.5	3200	11.5	3573	11.6
	3.79	959	10.9	1182	11.1	1428	11.2	1696	11.3	1986	11.4	2297	11.4	2629	11.5	2980	11.5	3351	11.6	3739	11.6
	4.14	1001	11.0	1234	11.2	1491	11.3	1771	11.4	2073	11.5	2397	11.5	2742	11.6	3108	11.6	3494	11.7	3898	11.7
	4.48	1042	11.1	1284	11.2	1551	11.4	1842	11.4	2156	11.6	2492	11.6	2851	11.7	3231	11.7	3631	11.8	4050	11.8
	4.83	1081	11.1	1332	11.3	1609	11.4	1910	11.5	2236	11.6	2584	11.7	2956	11.8	3348	11.8	3762	11.9	4195	11.9
	5.17	1119	11.2	1379	11.3	1665	11.5	1976	11.6	2312	11.7	2673	11.8	3056	11.9	3462	11.9	3888	12.0	4334	12.0
	5.52	1155	11.2	1424	11.4	1719	11.5	2040	11.6	2387	11.7	2758	11.8	3153	11.9	3571	12.0	4010	12.1		

F30)30V	PRESSURE (Bar)	NOZ 9/64" - L/H	ZLES + 9/64" R(m)	NOZ 5/32" + L/H		NOZ 11/64" L/H	ZLES + 11/64" R(m)		ZLES + 3/16" R(m)	13/64"	ZLES + 13/64" ») R(m)	NOZ 7/32" - L/H	ZLES + 7/32" R(m)	NOZ 15/64" - L/H	ZLES + 15/64" R(m)	NOZ 1/4" - L/H		NOZ 17/64" - L/H	
		2.41		11.0	1871	1B.2	2258	11.4	2678	11.5	3115	11.6	3506	11.7	3881	11.8	4306	11.9	4849	12.1
TWO	NOZZLES	2.76	1626	11.2	2003	11.4	2413	11.6	2862	11.7	3329	11.8	3748	12.0	4146	12.1	4599	12.2	5167	12.4
AND V	/ANE TO	3.10	1731	11.3	2130	11.6	2558	11.8	3034	11.9	3529	12.0	3974	12.3	4395	12.4	4874	12.5	5465	12.7
HIGH	RANGE	3.45	1828	11.4	2251	11.8	2695	12.0	3197	12.1	3719	12.2	4188	12.5	4630	12.7	5135	12.7	5746	12.9
		3.79	1926	11.5	2362	12.0	2825	12.2	3352	12.3	3899	12.4	4392	12.7	4853	12.9	5382	12.9	6013	13.0
		4.14	2003	11.6	2476	12.1	2950	12.3	3500	12.5	4072	12.6	4586	12.9	5067	13.0	5618	13.1	6267	13.1
		4.48	2112	11.7	2566	12.2	3070	12.4	3642	12.6	4237	12.8	4773	13.0	5272	13.1	5845	13.2	6511	13.2
		4.83	2158	11.8	2658	12.3	3185	12.5	3778	12.7	4396	12.9	4952	13.1	5469	13.2	6063	13.2	6745	13.4
		5.17	2248	11.8	2748	12.3	3296	12.6	3910	12.8	4549	13.0	5125	13.2	5659	13.1	6273	13.3	6970	13.4
		5.52	2294	11.9	2839	12.4	3403	12.7	4037	12.9	4698	13.1	5293	13.2	5842	13.3	6476	13.4	7187	13.5

F3030PV	PRESSURE (Bar)	NOZ: 9/6 L/H		NOZ 5/3 L/H		NOZ 11/ L/H		NOZ 3/1 L/H		NOZ: 13/ L/H (NOZ 7/3 L/H			ZLES 64" R(m)	NOZ 1/ L/H	ZLES '4" R(m)	NOZ 17/ L/H	ZLES 64" R(m)		ZLES 32" R(m)
ONE NOTE I	2.41	766	11.0	945	11.2	1142	11.4	1357	11.5	1589	11.6	1840	11.7	2107	11.8	2391	11.9	2692	12.1	3008	12.2
ONE NOZZLE,	2.76	819	11.2	1009	11.4	1220	11.6	1449	11.7	1698	11.8	1965	12.0	2250	12.1	2552	12.2	2872	12.4	3209	12.5
PLUG AND	3.10	868	11.3	1070	11.6	1293	11.8	1536	11.9	1799	12.0	2082	12.3	2383	12.4	2703	12.5	3041	12.7	3396	12.7
VANE TO	3.45	915	11.4	1128	11.8	1362	12.0	1618	12.1	1895	12.2	2192	12.5	2509	12.7	2845	12.7	3200	12.9	3573	12.9
HIGH RANGE	3.79	959	11.5	1182	12.0	1428	12.2	1696	12.3	1986	12.4	2297	12.7	2629	12.9	2980	12.9	3351	13.0	3739	13.0
	4.14	1001	11.6	1234	12.1	1491	12.3	1771	12.5	2073	12.6	2397	12.9	2742	13.0	3108	13.1	3494	13.1	3898	13.2
	4.48	1042	11.7	1284	12.2	1551	12.4	1842	12.6	2156	12.8	2492	13.0	2851	13.1	3231	13.2	3631	13.2	4050	13.2
	4.83	1081	11.8	1332	12.3	1609	12.5	1910	12.7	2236	12.9	2584	13.1	2956	13.2	3348	13.2	3762	13.4	4195	13.4
	5.17	1119	11.8	1379	12.3	1665	12.6	1976	12.8	2312	13.0	2673	13.2	3056	13.1	3462	13.3	3888	13.4	4334	13.4
	5.52	1155	11.9	1424	12.4	1719	12.7	2040	12.9	2387	13.1	2758	13.2	3153	13.3	3571	13.4	4010	13.5		

Data obtained under ideal test conditions. It can be affected by wind, worse hydraulic conditions or other adverse factors.

Highest point of the jet above the nozzle: 1.2m (using standard nozzle 13/64 " to 3.45 Bar).

Throw radius jets achieved with the 0.9m lift. Shaded areas not recommended.

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

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

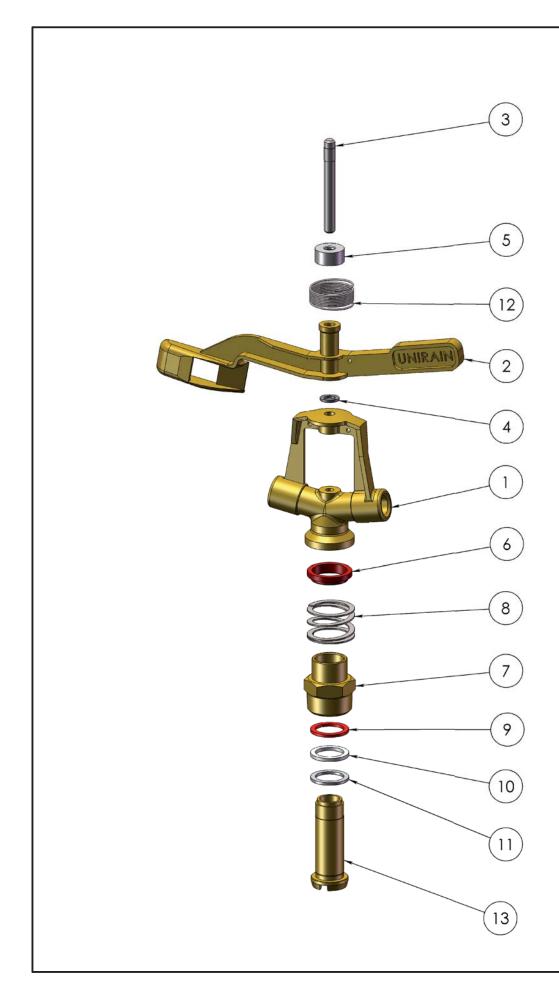
WARRANTY AND EXCLUSIONS

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, 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.

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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.

ASSEMBLY



COMPONENT NUMBER	PART NUMBER	DESCRIPTION	MATERIAL	QUANTITY
1	00015	Sprinkler Body F3030	Brass	1
2	00014	Sprinkler Arm F3030	Brass	1
3	06163	Arm pin	Stainless Steel	1
4	06162	Swing Arm Support Washer	NBR	1
5	06161	Swing Arm Hat	PE	1
6	00255	Bearing Body Lock	High Density PE	1
7	00016	Bearing Body F3030	Brass	1
8	06151	Bearing Spring	Stainless Steel	1
9	00252	Bearing Upper Washer	Anti Hydrolysis PU	1
10	06736	Bearing Intermediate Washer	High Density PE	1
11	07459	Bearing Lower Washer	NBR	1
12	06183	Arm Spring Series 3/4"	Stainless Steel	1
13	00017	Bearing Pin F3030	Brass	1

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Process/Manufacturer Unirain	Size A3	Material	Code 00095
Assembly	Scale 1:2	Aspersor F3	030
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