

INOVATO 2025

Smart Irrigation **PRODUCT CATALOG**



About us



Ningbo Innovator Control Equipment Co., Ltd. is located in Yuyao City, Zhejiang Province. We are an innovation-oriented manufacture, integrating technological innovation, product research and development, production and sales, and customer service. Our research and development team has 20 years of product development and manufacturing experience in the intelligent irrigation industry, And we are specialized in intelligent irrigation system, pop-up sprinklers, valves, and controllers.

We continues to promote technological innovation and improve our manufacturing level to intelligent manufacturing and lead the industry's needs, We adhere to the production of global professional intelligent control products and the application areas of the products include agricultural irrigation, landscaping, animal husbandry, smart courtyards, and golf courses. And we provide industry-leading intelligent control integrated solutions.

Our Goal: Providing great and durable products for the market, pushing and build professional irrigation education system. Make irrigation easy and create green lifestyle for market.



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01

GEAR DRIVE SPRINKLER

From small landscapes to expansive sports stadiums, INOVATO has the perfect rotor for every environment. Engineered for exceptional performance and minimal maintenance, INOVATO rotors guarantee outstanding coverage on any terrain year after year. Experience an extensive range of innovative features and superior functionality that sets us apart.

HF01

04

APPLICATIONS:

It is applied to turfgrass, shrubs, garden, etc

FEATURES:

- Models: 10cm
- Arc setting: 35°~360°
- Nozzle choice: 8
- Nozzle range: 0.5~4.0 red
- Factory installed rubber cover
- Through-the-top arc adjustment
- Quick check arc mechanism
- Water lubricated gear-drive
- Warranty: 2 years

OPERATING SPECIFICATIONS:

- Radius: 4.3~10.7m
- Flow: 0.08~1.0m³/hr; 1.4~16.7l/min
- Recommended working pressure: 1.7~3.8bar; 170~380kPa
- Operating working pressure: 1.4~6.9bar; 140~690kPa



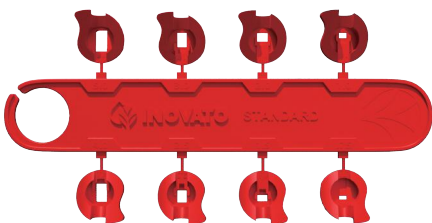
OPERATING SPECIFICATIONS:

- Inlet size: 1/2"female
- Precipitation rate: 15mm/hr approx



HF01-04

Overall height: 18cm
Exposed diameter: 3cm
Inlet size: 1/2" female




Models	Standard
HF01-04=10cm pop-up	Adjustable angles 8 standard

Examples:
HF-01-04=10cm pop-up, adjustable arc

/ Performance Data

HF01 standard red nozzle

	Pressure		Radius		Flow		Precip mm/h	
	bar	kPa	m	m ³ /hr	l/min	■	▲	
0.50 ■ Red	1.7	170	4.3	0.08	1.4	9	11	
	2.0	200	4.3	0.09	1.6	10	12	
	2.5	250	4.6	0.11	1.8	10	12	
	3.0	300	4.6	0.12	2.0	12	13	
	3.5	350	4.9	0.13	2.2	11	13	
	3.8	380	4.9	0.14	2.3	12	14	
0.75 ■ Red	1.7	170	4.3	0.13	2.2	14	17	
	2.0	200	4.6	0.14	2.4	14	16	
	2.5	250	4.9	0.16	2.7	13	15	
	3.0	300	5.2	0.18	3.0	13	15	
	3.5	350	5.2	0.19	3.2	14	17	
	3.8	380	5.5	0.20	3.4	13	15	
1.0 ■ Red	1.7	170	5.2	0.18	3.0	13	15	
	2.0	200	5.5	0.19	3.2	13	15	
	2.5	250	5.5	0.21	3.5	14	16	
	3.0	300	5.8	0.23	3.8	14	16	
	3.5	350	5.8	0.24	4.1	15	17	
	3.8	380	6.1	0.25	4.2	14	16	
1.5 ■ Red	1.7	170	6.1	0.27	4.5	15	17	
	2.0	200	6.4	0.29	4.8	14	16	
	2.5	250	6.4	0.32	5.4	16	18	
	3.0	300	6.7	0.36	6.0	16	18	
	3.5	350	6.7	0.39	6.4	17	20	
	3.8	380	7.0	0.40	6.7	16	19	
2.0 ■ Red	1.7	170	7.0	0.34	5.6	14	16	
	2.0	200	7.3	0.37	6.2	14	16	
	2.5	250	7.3	0.42	7.1	16	18	
	3.0	300	7.6	0.48	8.0	17	19	
	3.5	350	7.6	0.53	8.8	18	21	
	3.8	380	7.9	0.56	9.3	18	20	
2.5 ■ Red	1.7	170	7.9	0.46	7.6	15	17	
	2.0	200	8.2	0.49	8.1	14	17	
	2.5	250	8.2	0.54	9.0	16	18	
	3.0	300	8.5	0.59	9.8	16	19	
	3.5	350	8.5	0.63	10.5	17	20	
	3.8	380	8.8	0.65	10.9	17	19	
3.0 ■ Red	1.7	170	8.8	0.51	8.5	13	15	
	2.0	200	9.1	0.56	9.3	13	15	
	2.5	250	9.1	0.64	10.6	15	18	
	3.0	300	9.4	0.72	12.0	16	19	
	3.5	350	9.4	0.78	13.1	18	20	
	3.8	380	9.8	0.82	13.7	17	20	
4.0 ■ Red	1.7	170	9.8	0.80	13.3	17	19	
	2.0	200	10.1	0.83	13.8	16	19	
	2.5	250	10.1	0.89	14.8	18	20	
	3.0	300	10.4	0.94	15.7	17	20	
	3.5	350	10.4	0.98	16.3	18	21	
	3.8	380	10.7	1.00	16.7	18	20	

Note:

All precipitation rates calculated for 180° operation
For the precipitation rate for a 360° sprinkler, divide by 2

HF02

04, 06, 12

APPLICATIONS:

It is applied to turfgrass, shrubs, garden, etc

FEATURES:

- Models: 10cm, 15cm, 30cm
- Arc setting: 60°~360°
- Factory installed rubber cover
- Through-the-top arc adjustment
- Quick check arc mechanism
- Water lubricated gear-drive
- Nozzle choice: 12
- Nozzle range: 1.5~8.0 blue, 2.0~4.5 low angle blue
- Warranty: 2 years

OPERATING SPECIFICATIONS:

- Radius: 4.9~14.0m
- Flow: 0.07~3.23m³/hr; 1.2~53.8l/min
- Recommended working pressure: 1.7~4.5bar; 170~450kPa
- Operating working pressure: 1.4~7bar; 140~700kPa



Top View



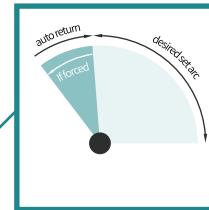
Appearance Design



Durable appearance design

Headed and slotted set screw

Use a slotted screwdriver for easier and simpler adjustment as need

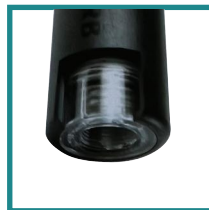


Automatic arc return

This ensures vandal protection in any environment

Pressure Regulator

It can lower water pressure to eliminate misting and ensure the efficiency of the nozzle operation



Check Valve (CV)

When the system is turned off, it prevents water overflow. Save water, reduce risk, and extend system life

OPERATING SPECIFICATIONS:

- Inlet size: 3/4"female
- Precipitation rate: 10mm/hr approx
- Trajectory: Standard = 25° Low angle = 13°



HF02-04

Overall height: 21cm
Exposed diameter: 4.5cm
Inlet size: 3/4"female



HF02-06

Overall height: 25cm
Exposed diameter: 4.5cm
Inlet size: 3/4"female



HF02-12

Overall height: 44cm
Exposed diameter: 4.5cm
Inlet size: 3/4"female

Models	Standard	Options	Optional nozzles
HF02-04=10cm pop-up HF02-06=15cm pop-up HF02-12=30cm pop-up	Adjustable angles 8 standard nozzles 4 low angle nozzles	(blank)=nil CV=Check Valve	1.5~4.0=factory installed nozzle number Blue 1.5~8.0 Blue low angle 2.0~4.5

Examples:


HF-02-04=10cm pop-up, adjustable arc

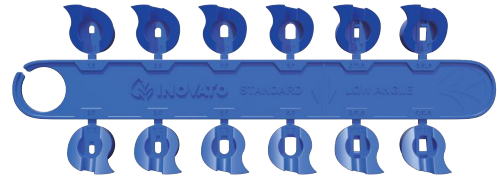
HF-02-06=15cm pop-up, adjustable arc

HF-02-12=30cm pop-up, adjustable arc

/ Performance Data


HF02 standard blue nozzle

	Pressure		Radius m	Flow		Rotate one circle second
	bar	psi		m ³ /hr	GPM	
1.5 ■ Blue	1.5	21.7	8	0.24	1.05	136.9
	2.0	29	9	0.29	1.28	110.9
	2.5	36.2	10	0.32	1.41	99.9
	3.0	43.5	10.3	0.34	1.50	98.2
2.0 ■ Blue	1.5	21.7	9	0.26	1.14	121.1
	2.0	29	9.8	0.30	1.32	100.2
	2.5	36.2	10.5	0.36	1.58	97.2
	3.0	43.5	11	0.39	1.71	103.4
2.5 ■ Blue	1.5	21.7	9.5	0.33	1.45	97.5
	2.0	29	10.5	0.38	1.67	97.7
	2.5	36.2	11	0.44	1.94	99.4
	3.0	43.5	11.3	0.50	2.20	101.2
3.0 ■ Blue	1.5	21.7	10	0.42	1.85	121.1
	2.0	29	11.2	0.52	2.29	100.2
	2.5	36.2	12	0.58	2.55	97.2
	3.0	43.5	12.5	0.70	3.08	103.4
4.0 ■ Blue	1.5	21.7	9.5	0.58	2.55	108.5
	2.0	29	10	0.70	3.08	120.1
	2.5	36.2	11	0.80	3.52	119.7
	3.0	43.5	12	0.90	3.96	117.9
5.0 ■ Blue	1.5	21.7	10.5	0.70	3.08	115.3
	2.0	29	11	0.85	3.74	118.8
	2.5	36.2	12	0.95	4.18	119.9
	3.0	43.5	14	1.05	4.62	123.2
6.0 ■ Blue	1.5	21.7	9	0.90	3.96	119.2
	2.0	29	10	1.00	4.40	122.1
	2.5	36.2	12	1.15	5.06	129.7
	3.0	43.5	14	1.25	5.50	119.9
8.0 ■ Blue	1.5	21.7	9.5	1.00	4.40	122.0
	2.0	29	11	1.20	5.28	125.8
	2.5	36.2	13	1.30	5.72	117.6
	3.0	43.5	14	1.45	6.38	114.5



/ Performance Data

HF02 low angle blue nozzle

	Pressure		Radius m	Flow		Rotate one circle second
	bar	psi		m ³ /hr	GPM	
2.0LA ■ Blue	1.5	21.7	8	0.29	1.28	114.5
	2.0	29	8.5	0.34	1.50	102.2
	2.5	36.2	9.5	0.39	1.72	97.8
	3.0	43.5	10	0.42	1.85	94.8
2.5LA ■ Blue	1.5	21.7	8.5	0.45	1.98	112.4
	2.0	29	9.3	0.50	2.20	101.5
	2.5	36.2	10	0.60	2.60	103.3
	3.0	43.5	10.5	0.65	2.86	108.3
3.5LA ■ Blue	1.5	21.7	8.7	0.65	2.86	107.3
	2.0	29	10	0.70	3.08	120.4
	2.5	36.2	11	0.80	3.52	118.8
	3.0	43.5	11.5	0.90	3.96	118.7
4.5LA ■ Blue	1.5	21.7	10	0.68	2.99	102.2
	2.0	29	11.2	0.72	3.17	112.0
	2.5	36.2	12	0.90	3.96	115.4
	3.0	43.5	12.5	0.99	4.36	117.0

02

NOZZLES



Crafted with precision, the INOVATO nozzle line equips professionals with the essential tools for a variety of residential and commercial terrains.

RF NOZZLES

101, 103, 104, 201, 203, 204, 301, 303, 304



APPLICATION:

It is applied to turfgrass, shrubs, garden, etc

FEATURES:

- In the radius of 2-8 meters, we have three different arc nozzle which is 90-210 degrees, 210-270 degrees, 360 degrees. Customers can choose the corresponding product according to the required range and the arc.
- Radius can be reduced up to 25% on all models
- Color-coded for easy identification
- Removable filter screen prevents large objections from clogging nozzle
- Low precipitation rate
- Wind-resistant multi-stream technology
- 90-210 degrees, 210-270 degrees nozzle can be adjusted in the range of Angle

OPERATION SPECIFICATION:

Recommended working pressure: 2.8 bar



VERTICAL VIEW



RF101 90°~210°



RF103 210°~270°



RF104 360°



RF201 90°~210°



RF203 210°~270°



RF204 360°



RF301 90°~210°



RF303 210°~270°



RF304 360°

Note: The above data is taken in zero wind conditions






■ Indicates that the sprinklers are installed in a square.Space based on radius

▲ Indicates that the sprinklers are installed in a triangle.Space based on radius

/ Performance Data

RF NOZZLES

- RF101 90°~210°
- RF201 90°~210°
- RF301 90°~210°
- RF103 210°~270°
- RF203 210°~270°
- RF303 210°~270°
- RF104 360°
- RF204 360°
- RF304 360°

	Pressure		Radius		Flow		Precip mm/h		Radius		Flow		Precip mm/h		Radius		Flow		Precip mm/h		
	bar	kPa	m	m	m ³ /hr	l/min	■	▲	m	m	m ³ /hr	l/min	■	▲	m	m	m ³ /hr	l/min	■	▲	
90° 	1.7	170	--	--	--	--	--	--	5.2	0.08	1.29	12	13	7.6	0.16	2.69	11	13			
	2.0	200	3.7	0.04	0.64	11	13	5.5	0.09	1.44	12	13	8.2	0.17	2.88	10	12				
	2.5	250	4.0	0.04	0.72	11	13	5.8	0.09	1.52	11	13	8.5	0.19	3.11	10	12				
	2.8	280	● 4.1	0.05	0.80	11	13	● 6.1	0.10	1.63	11	12	● 9.1	0.20	3.26	10	11				
	3.0	300	4.3	0.05	0.87	11	13	6.4	0.11	1.74	10	12	9.1	0.21	3.41	10	12				
	3.5	350	4.5	0.06	0.95	11	13	6.4	0.11	1.78	11	12	9.1	0.22	3.60	11	12				
	3.8	380	4.5	0.06	1.02	12	14	6.4	0.11	1.82	11	12	9.1	0.23	3.83	11	13				
180° 	1.7	170	--	--	--	--	--	4.9	0.14	2.27	11	13	7.6	0.33	5.46	11	13				
	2.0	200	3.7	0.08	1.29	11	13	5.2	0.15	2.43	11	13	8.2	0.36	5.99	11	12				
	2.5	250	4.0	0.09	1.44	11	13	5.5	0.16	2.69	11	12	8.5	0.39	6.44	11	12				
	2.8	280	● 4.1	0.10	1.59	11	13	● 5.8	0.18	2.92	11	12	● 9.1	0.42	6.90	10	12				
	3.0	300	4.3	0.10	1.67	11	13	6.1	0.20	3.22	11	12	9.1	0.44	7.31	11	12				
	3.5	350	4.4	0.12	1.90	11	13	6.4	0.21	3.45	10	12	9.1	0.47	7.73	11	13				
	3.8	380	4.5	0.12	1.93	12	13	6.4	0.22	3.60	11	12	9.1	0.49	8.07	12	14				
210° 	1.7	170	--	--	--	--	--	4.9	0.17	2.73	12	14	7.6	0.39	6.37	11	13				
	2.0	200	3.7	0.09	1.52	12	13	5.2	0.17	2.84	11	13	8.2	0.42	6.97	11	12				
	2.5	250	● 4.0	0.10	1.71	11	13	● 5.5	0.19	3.07	11	12	● 8.5	0.46	7.54	11	13				
	2.8	280	● 4.1	0.11	1.86	11	13	● 5.8	0.20	3.26	10	12	● 9.1	0.49	8.03	10	12				
	3.0	300	● 4.3	0.12	1.93	11	13	● 6.1	0.21	3.45	10	11	● 9.1	0.52	8.53	11	12				
	3.5	350	4.4	0.13	2.16	11	13	6.4	0.23	3.71	9	11	9.1	0.55	8.98	11	13				
	3.8	380	4.5	0.14	2.24	11	13	6.4	0.23	3.83	10	11	9.1	0.57	9.44	12	14				
270° 	1.7	170	--	--	--	--	--	4.9	0.20	3.30	11	13	7.6	0.50	8.30	12	13				
	2.0	200	3.7	0.11	1.82	11	12	5.2	0.22	3.60	11	12	8.2	0.55	8.98	11	12				
	2.5	250	4.0	0.12	2.01	10	12	5.5	0.24	3.90	10	12	8.5	0.59	9.66	11	12				
	2.8	280	● 4.1	0.14	2.39	11	13	● 5.8	0.25	4.17	10	12	● 9.1	0.63	10.35	10	12				
	3.0	300	4.3	0.15	2.54	11	13	6.1	0.27	4.43	10	11	9.1	0.66	10.95	11	12				
	3.5	350	4.4	0.17	2.73	11	13	6.4	0.28	4.66	9	11	9.1	0.70	11.60	11	13				
	3.8	380	4.5	0.17	2.84	12	13	6.4	0.30	4.93	10	11	9.1	0.74	12.20	12	14				
360° 	1.7	170	--	--	--	--	--	4.9	0.28	4.55	11	13	7.6	0.66	10.92	11	13				
	2.0	200	3.5	0.16	2.62	12	13	5.2	0.29	4.85	11	13	8.2	0.72	11.94	11	12				
	2.5	250	4.0	0.18	2.92	11	13	5.5	0.32	5.19	10	12	8.5	0.78	12.89	11	12				
	2.8	280	● 4.1	0.19	3.18	11	13	● 5.8	0.34	5.61	10	12	● 9.1	0.84	13.80	10	12				
	3.0	300	4.3	0.20	3.34	11	13	6.1	0.36	5.95	10	11	9.1	0.89	14.63	11	12				
	3.5	350	4.4	0.23	3.71	11	13	6.4	0.39	6.37	9	11	9.1	0.94	15.43	11	13				
	3.8	380	4.5	0.23	3.83	11	13	6.4	0.40	6.59	10	11	9.1	0.98	16.18	12	14				



FN NOZZLES

4AN, 6AN, 8AN, 10AN, 12AN, 15AN, 17AN

APPLICATIONS:

It is applied to turfgrass, shrubs, garden, etc

FEATURES:

- Well-defined edges
- Matched precipitation rate of 0.9m to 5.8m
- Easy grip top tp simple adjustmen
- Designed with large water droplets to withstand light winds
- Even distribution results in beautiful pattern
- Color-coded for easy field identification
- Adjustable from 0°to 360°



4AN



6AN



8AN

OPERATING SPECIFICATIONS:

- Recommended operating pressure: 2.1 bar



10AN



12AN



15AN



17AN

OPERATING PICTURE:










PERFORMANCE DATA:

/FN NOZZLES

● 4AN (Lt.Green) 1.2 Radius
Adjustable: 0°~360°
Trajectory: 0°

● 6AN (Sky Blue) 1.8 Radius
Adjustable: 0°~360°
Trajectory: 0°

● 8AN (Green) 2.4 Radius
Adjustable: 0°~360°
Trajectory: 15°

	Pressure		Radius 1.2				Radius 1.8				Radius 2.4						
	bar	kPa	m	m³/hr	l/min	■	▲	m	m³/hr	l/min	■	▲	m	m³/hr	l/min	■	▲
45° 	1.0	100	0.9	0.02	0.31	187	216	1.5	0.03	0.54	117	136	2.0	0.04	0.62	77	89
	1.5	150	1.0	0.02	0.39	178	206	1.6	0.04	0.60	108	124	2.2	0.02	0.72	72	83
	2.1	210	1.2	0.03	0.48	167	193	1.8	0.04	0.65	98	114	2.4	0.05	0.83	67	77
	2.5	250	1.3	0.03	0.56	158	183	1.9	0.04	0.70	92	106	2.6	0.05	0.91	63	73
	3.0	300	1.4	0.04	0.64	149	172	2.1	0.05	0.75	86	99	2.9	0.06	1.01	59	68
90° 	1.0	100	0.9	0.04	0.72	213	246	1.5	0.06	1.08	116	134	2.0	0.07	1.24	77	89
	1.5	150	1.0	0.05	0.76	182	210	1.6	0.07	1.21	109	126	2.2	0.09	1.44	72	83
	2.1	210	1.2	0.05	0.83	139	160	1.8	0.08	1.35	102	118	2.4	0.10	1.65	67	77
	2.5	250	1.3	0.05	0.91	129	149	1.9	0.09	1.47	97	112	2.6	0.11	1.82	63	73
	3.0	300	1.4	0.06	0.95	116	134	2.1	0.10	1.61	92	106	2.9	0.12	2.02	59	68
120° 	1.0	100	0.9	0.06	0.97	221	255	1.5	0.08	1.26	102	118	2.0	0.10	1.66	77	89
	1.5	150	1.0	0.07	1.10	188	217	1.6	0.09	1.43	97	112	2.2	0.11	1.92	72	83
	2.1	210	1.2	0.07	1.25	162	187	1.8	0.10	1.61	91	105	2.4	0.13	2.20	67	77
	2.5	250	1.3	0.08	1.36	146	168	1.9	0.11	1.76	87	100	2.6	0.15	2.43	63	73
	3.0	300	1.4	0.09	1.49	131	151	2.1	0.12	1.93	82	95	2.9	0.16	2.69	59	68
180° 	1.0	100	0.9	0.07	1.18	178	206	1.5	0.10	1.70	92	106	2.0	0.15	2.49	77	89
	1.5	150	1.0	0.08	1.38	157	181	1.6	0.12	1.96	88	106	2.2	0.17	2.87	72	83
	2.1	210	1.2	0.10	1.60	139	160	1.8	0.13	2.24	84	97	2.4	0.20	3.30	67	77
	2.5	250	1.3	0.11	1.78	127	146	1.9	0.15	2.47	81	94	2.6	0.22	3.65	63	73
	3.0	300	1.4	0.12	1.98	115	133	2.1	0.16	2.72	78	90	2.9	0.24	4.03	59	68
240° 	1.0	100	0.9	0.12	1.94	220	254	1.5	0.15	2.44	99	114	2.0	0.15	2.49	77	89
	1.5	150	1.0	0.13	2.24	192	221	1.6	0.17	2.83	96	111	2.2	0.17	2.87	72	83
	2.1	210	1.2	0.16	2.59	168	194	1.8	0.20	3.28	92	107	2.4	0.20	3.30	67	77
	2.5	250	1.3	0.17	2.86	153	177	1.9	0.22	3.63	89	103	2.6	0.22	3.65	63	73
	3.0	300	1.4	0.19	3.17	139	160	2.1	0.24	4.03	86	99	2.9	0.24	4.03	59	68
270° 	1.0	100	0.9	0.13	2.09	211	244	1.5	0.18	3.08	111	128	2.0	0.15	2.49	77	89
	1.5	150	1.0	0.14	2.40	183	211	1.6	0.21	3.52	106	122	2.2	0.17	2.87	72	83
	2.1	210	1.2	0.16	2.75	159	183	1.8	0.24	4.02	101	116	2.4	0.20	3.30	67	77
	2.5	250	1.3	0.18	3.02	144	166	1.9	0.27	4.42	97	112	2.6	0.22	3.65	63	73
	3.0	300	1.4	0.20	3.33	130	150	2.1	0.29	4.87	92	107	2.9	0.24	4.03	59	68
360° 	1.0	100	0.9	0.14	2.26	171	197	1.5	0.21	3.57	96	111	2.0	0.30	4.97	77	89
	1.5	150	1.0	0.16	2.60	148	171	1.6	0.24	4.07	92	105	2.2	0.34	5.75	72	83
	2.1	210	1.2	0.18	2.98	129	149	1.8	0.28	4.62	87	100	2.4	0.40	6.61	67	77
	2.5	250	1.3	0.20	3.29	117	135	1.9	0.30	5.06	83	96	2.6	0.44	7.29	63	73
	3.0	300	1.4	0.22	3.63	106	122	2.1	0.33	5.56	79	92	2.9	0.48	8.07	59	68

Note: The above data is taken in windless conditions








■ Indicates that the sprinklers are installed in a square.Space based on radius

▲ Indicates that the sprinklers are installed in a triangle.Space based on radius

PERFORMANCE DATA:

/FN NOZZLES

- 10AN (Dark Blue) 3.0 Radius Adjustable: 0°~360° Trajectory: 15°
- 12AN (Brown) 3.7 Radius Adjustable: 0°~360° Trajectory: 28°
- 15AN (Black) 4.6 Radius Adjustable: 0°~360° Trajectory: 28°
- 17AN (Gray) 5.2 Radius Adjustable: 0°~360° Trajectory: 28°

	Pressure bar kPa	Radius Flow					Radius Flow					Radius Flow					Radius Flow				
		m	m ³ /hr	l/min	■	▲	m	m ³ /hr	l/min	■	▲	m	m ³ /hr	l/min	■	▲	m	m ³ /hr	l/min	■	▲
45° 	1.0 100	2.6	0.04	0.68	49	56	3.2	0.04	0.73	34	40	4.0	0.08	1.27	38	43	4.6	0.10	1.68	38	43
	1.5 150	2.8	0.05	0.80	49	57	3.4	0.06	0.97	40	46	4.3	0.09	1.51	39	45	4.9	0.12	1.94	38	44
	2.1 210	3.0	0.06	0.94	49	56	3.7	0.07	1.23	44	51	4.6	0.11	1.79	40	46	5.2	0.13	2.23	39	45
	2.5 250	3.2	0.06	1.06	48	56	3.9	0.09	1.44	46	54	4.6	0.12	2.00	40	46	5.5	0.15	2.46	39	45
	3.0 300	3.5	0.07	1.18	47	54	4.1	0.10	1.68	48	56	5.2	0.14	2.25	40	46	5.8	0.16	2.72	39	45
90° 	1.0 100	2.6	0.08	1.35	49	56	3.2	0.09	1.46	34	40	4.0	0.15	2.53	38	43	4.6	0.20	3.36	38	43
	1.5 150	2.8	0.10	1.61	49	57	3.4	0.12	1.93	40	46	4.3	0.18	3.03	39	45	4.9	0.23	3.88	38	44
	2.1 210	3.0	0.11	1.89	49	56	3.7	0.15	2.46	44	51	4.6	0.21	3.57	40	46	5.2	0.27	4.45	39	45
	2.5 250	3.2	0.13	2.11	48	56	3.9	0.17	2.88	46	54	4.6	0.24	4.01	40	46	5.5	0.30	4.92	39	45
	3.0 300	3.5	0.14	2.37	47	54	4.1	0.20	3.36	48	56	5.2	0.27	4.50	40	46	5.8	0.33	5.44	39	45
120° 	1.0 100	2.6	0.11	1.80	49	56	3.2	0.12	1.94	34	40	4.0	0.20	3.38	38	43	4.6	0.27	4.48	38	43
	1.5 150	2.8	0.13	2.14	49	57	3.4	0.15	2.58	40	46	4.3	0.24	4.03	39	45	4.9	0.31	5.17	38	44
	2.1 210	3.0	0.15	2.52	49	56	3.7	0.20	3.28	44	51	4.6	0.29	4.76	40	46	5.2	0.36	5.94	39	45
	2.5 250	3.2	0.17	2.82	48	56	3.9	0.23	3.84	46	54	4.6	0.32	5.34	40	46	5.5	0.39	6.56	39	45
	3.0 300	3.5	0.19	3.16	47	54	4.1	0.27	4.48	48	56	5.2	0.36	6.00	40	46	5.8	0.43	7.25	39	45
180° 	1.0 100	2.6	0.16	2.71	49	56	3.2	0.17	2.91	34	40	4.0	0.30	5.07	38	43	4.6	0.40	6.71	38	43
	1.5 150	2.8	0.19	3.21	49	57	3.4	0.23	3.86	40	46	4.3	0.36	6.05	39	45	4.9	0.47	7.75	38	44
	2.1 210	3.0	0.23	3.78	49	56	3.7	0.30	4.92	44	51	4.6	0.43	7.14	40	46	5.2	0.53	8.91	39	45
	2.5 250	3.2	0.25	4.23	48	56	3.9	0.35	5.76	46	54	4.6	0.48	8.02	40	46	5.5	0.59	9.83	39	45
	3.0 300	3.5	0.28	4.73	47	54	4.1	0.40	6.71	48	56	5.2	0.54	9.00	40	46	5.8	0.65	10.87	39	45
240° 	1.0 100	2.6	0.22	3.61	49	56	3.2	0.23	3.88	34	40	4.0	0.41	6.76	38	43	4.6	0.54	8.95	38	43
	1.5 150	2.8	0.26	4.28	49	57	3.4	0.31	5.15	40	46	4.3	0.48	8.07	39	45	4.9	0.62	10.34	38	44
	2.1 210	3.0	0.30	5.03	49	56	3.7	0.39	6.56	44	51	4.6	0.57	9.52	40	46	5.2	0.71	11.88	39	45
	2.5 250	3.2	0.34	5.64	48	56	3.9	0.46	7.68	46	54	4.6	0.64	10.69	40	46	5.5	0.79	13.11	39	45
	3.0 300	3.5	0.38	6.31	47	54	4.1	0.54	8.95	48	56	5.2	0.72	12.00	40	46	5.8	0.87	14.50	39	45
270° 	1.0 100	2.6	0.24	4.06	49	56	3.2	0.26	4.37	34	40	4.0	0.46	7.60	38	43	4.6	0.60	10.07	38	43
	1.5 150	2.8	0.29	4.82	49	57	3.4	0.35	5.80	40	46	4.3	0.54	9.08	39	45	4.9	0.70	11.63	38	43
	2.1 210	3.0	0.34	5.66	49	56	3.7	0.44	7.38	44	51	4.6	0.64	10.71	40	46	5.2	0.80	13.36	39	45
	2.5 250	3.2	0.38	6.34	48	56	3.9	0.52	8.65	46	54	4.6	0.72	12.03	40	46	5.5	0.89	14.75	39	45
	3.0 300	3.5	0.43	7.10	47	54	4.1	0.60	10.07	48	56	5.2	0.81	13.50	40	46	5.8	0.98	16.31	39	45
360° 	1.0 100	2.6	0.32	5.41	49	56	3.2	0.35	5.83	34	40	4.0	0.61	10.13	38	43	4.6	0.81	13.43	38	43
	1.5 150	2.8	0.39	6.43	49	57	3.4	0.46	7.73	40	46	4.3	0.73	12.10	39	45	4.9	0.93	15.51	38	44
	2.1 210	3.0	0.45	7.55	49	56	3.7	0.59	9.84	44	51	4.6	0.86	14.28	40	46	5.2	1.07	17.82	39	45
	2.5 250	3.2	0.51	8.45	48	56	3.9	0.69	11.53	46	54	4.6	0.96	16.03	40	46	5.5	1.18	19.67	39	45
	3.0 300	3.5	0.57	9.47	47	54	4.1	0.81	13.43	48	56	5.2	1.08	18.00	40	46	5.8	1.30	21.75	39	45

Note: The above data is taken in windless conditions

■ Indicates that the sprinklers are installed in a square.Space based on radius

▲ Indicates that the sprinklers are installed in a triangle.Space based on radius

03

SPRINKLERS & ACCESSORIES

Available for different pop-up heights. It has a two-piece ratcheting riser, which is reliable and durable. The male-threaded riser is compatible with all INOVATO female-threaded nozzles. It has two versions. One is nozzle preinstalled version, which has a large filter screen for debris resistance. And the other one is plug preinstalled version, which is available without a nozzle or filter screen. All FN nozzles are compatible with this sprinkler.



APPLICATIONS COMPARISON :

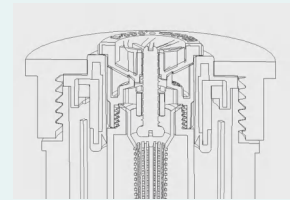
APPLICATIONS	GF	SF
Shrubs	⊙	⊙
Agriculture		⊙
Garden	⊙	⊙
Courtyard		⊙
Municipalities		⊙
Golf Course		⊙

△ Optional check valve available

OUR ADVANTAGE :

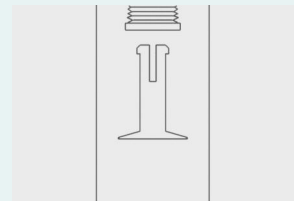
CO-MOLDED WIPER SEAL

Molded with two types of chemical and chlorine-resistant materials, this multi-function wiper seal reduces flow-by, allowing more heads on one zone, and prevents debris from entering the seal, reducing riser stick-ups



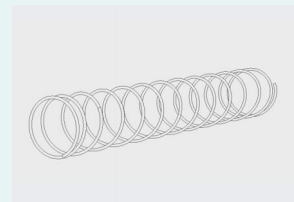
FLOGUARD TECHNOLOGY

In the event of a missing nozzle, Flo Guard technology reduces the flow of water from the riser to a 1.9L/MIN(3M tall) indicator stream, eliminating water waste and preventing landscape erosion while providing a visual indicator for repair



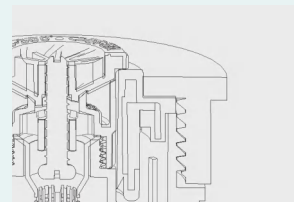
HEAVY-DUTY SPRING

The industry's strongest spring offers positive retraction under any conditions



INDUSTRY'S STRONGEST SPRAY BODY

The sprinkler incorporates a heavy-duty ribbed body and durable cap engineered to withstand the harshest environments, including the rigors of foot traffic and the abuses of heavy machinery. In addition, the buttress thread design provides superior strength in cap-to-body gripping capacity, helping the head to withstand high inlet surge pressures



GF

02, 04, 06

APPLICATIONS:

It is applied to turfgrass, shrubs, garden, etc

FEATURES:

- Small exposed cover for more attractive landscapes
- Compact shape makes it more economical
- Pressure-activated wiper seal prevents excessive flow-by and water waste and keeps debris from entering upon retraction
- Constructed of durable materials including corrosion resistant stainless steel
- Male threaded riser to accept all INOVATO female nozzles

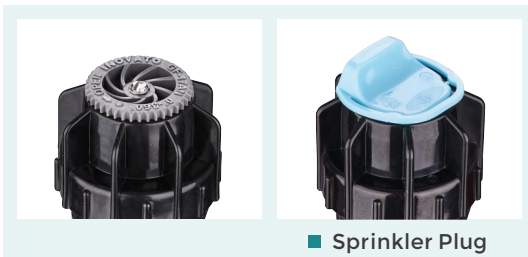
OPERATING SPECIFICATIONS:

- Recommended pressure range: 1.0~4.8 bar
- Radius: 0.9-5.8m
- Connection: 1/2" female thread

FACTORY INSTALLED OPTIONS:

- Flush plug (large basket filter screen included)

DETAILED PICTURES:



OPERATING PICTURE:



GF02

overall height: 12.7cm
Pop up height: 5cm
exposure diameter: 3cm
inlet size: 1/2" female thread



GF04

overall height: 18.4cm
Pop up height: 10cm
exposure diameter: 3cm
inlet size: 1/2" female thread



GF06

overall height: 24.1cm
Pop up height: 15cm
exposure diameter: 3cm
inlet size: 1/2" female thread

SF

02, 03, 04, 06, 12

APPLICATIONS:

It is applied to turfgrass, shrubs, garden, etc

FEATURES:

- Small exposed cover for more attractive landscapes
- Compact shape makes it more economical
- Pressure-activated wiper seal prevents excessive flow-by and water waste and keeps debris from entering upon retraction
- Constructed of durable materials including corrosion resistant stainless steel
- Male threaded riser to accept all INOVATO female nozzles

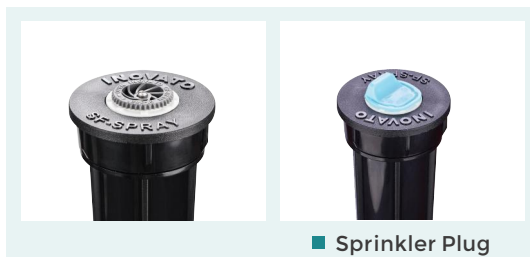
OPERATING SPECIFICATIONS:

- Recommended pressure range: 1.0~7.0 bar
- Optimum working pressure: 2.1 bar
- Connection: 1/2" female thread

FACTORY INSTALLED OPTIONS:

- Drain check valve: 7.5cm, 10cm, 15cm, 30cm models (up to 3m of elevation)
- Reclaimed water ID cap

DETAILED PICTURES:



OPERATING PICTURE:



SF02

overall height: 10cm
Pop up height: 5cm
exposure diameter: 5.7cm
inlet size: 1/2" female thread



SF03

overall height: 12.5cm
Pop up height: 7.5cm
exposure diameter: 5.7cm
inlet size: 1/2" female thread



SF04

overall height: 15.5cm
Pop up height: 10cm
exposure diameter: 5.7cm
inlet size: 1/2" female thread

SF06/SF06-SI

overall height: 22.5cm
Pop up height: 15cm
exposure diameter: 5.7cm
inlet size: 1/2" female thread
without/with side inlet

SF12/SF12-SI

overall height: 41cm
Pop up height: 30cm
exposure diameter: 5.7cm
inlet size: 1/2" female thread
without/with side inlet



SJ SWING JOINT

SJ Series

FEATURES:

- Swing Joint to Lateral Pipe Connections
- The product series accommodates diverse landscape applications, featuring dual swivel elbows for multi-angle configuration adaptability
- Frost and UV-resistant materials combined with full-sealed joints ensure durability in harsh conditions, while enhancing flexibility for spray system installation and maintenance

OPERATING SPECIFICATIONS:

- Recommend working pressure: up to 5.5 bar, 80 PSI
- Operating pressure: up to 10 bar, 145 PSI

MODEL:

MODEL	DESCRIPTION	
SJ-01	1/2*1/2 male threaded	30cm length
SJ-02	3/4*3/4 male threaded	30cm length
SJ05-15	1/2*1/2 male threaded	15cm length
SJ05-30	1/2*1/2 male threaded	30cm length
SJ06-15	3/4*3/4 male threaded	15cm length
SJ06-30	3/4*3/4 male threaded	30cm length
SJ0506-15	1/2*3/4 male threaded	15cm length
SJ0506-30	1/2*3/4 male threaded	30cm length
SJ100-30	1*1 male threaded	30cm length



SJ Swing Joint

15cm or 30cm length, optional



PSAC Barb Elbow

PSAC-01 to 04, SJ05-1, SJ06-1
available from SJ-01 to SJ-06



SJ100-30

1" threaded × 30cm length

QUICK COUPLERS

2124

APPLICATIONS:

Deliver underground water supply outlets for applications from residential lawns to city parks. Featuring flush-to-grade installation design and compatibility with above-ground sprinklers or hoses

FEATURES:

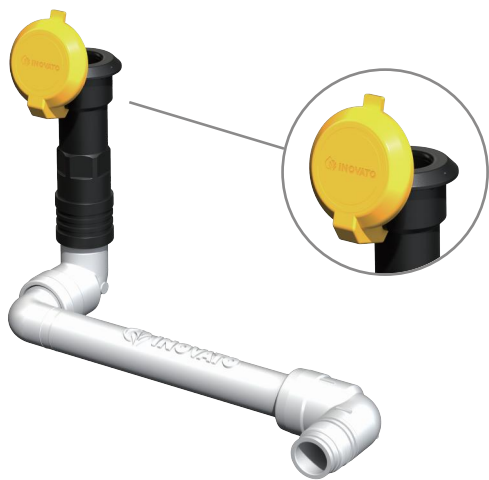
- The Quick-Coupling Valve is designed into two separate parts: 2124-1Key and 2124-2Body
- The O-ring enhances the sealing performance
- Used in conjunction with 2124-1 key
- Cap designed on the valve body to keep out debris
- Impact-resistant plastic with UV-inhibitors

OPERATING SPECIFICATION:

- Maximum operating pressure: 6 bar; 90 PSI

RECOMMENDATION INSTALLATION:

- Equipped with SJ100-30 Swing Joint



2124-1

Quick-Coupling Valve Key

Height: 17.17cm
3/4" male thread



2124-2

Quick-Coupling Valve Body

Height: 15.85 cm
1" female thread

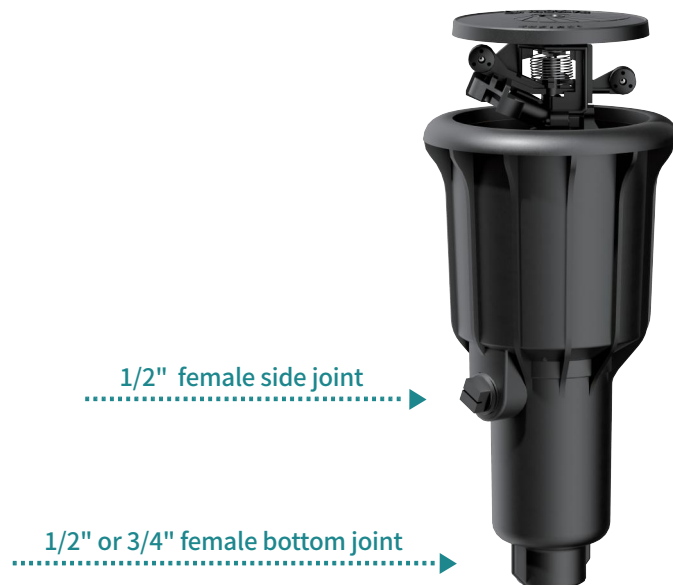


2124

Plastic Quick-Coupling Valve

POP-UP IMPACT SPRINKLER

SRPIR01



PRODUCT INFORMATION:

- Side and combination 1/2" or 3/4" female thread on bottom inlet for more flexibility system design
- 360° full-circle or arc adjustable from 20° to 340°
- Application for residential and commercial turf, drive with straight-through flow for steady performance in dirty water

FEATURES:

- Reinforced Impact-Resistant Structure with Heavy-duty plastic case and Ribbed reinforcement design
- Double-weighted arm for controlled rotation
- Distance-regulating diffuser pin
- Recommend working pressure: up to 5.5 bar, 80 PSI
- Operating pressure: up to 10 bar, 145 PSI
- Side inlet installation is not recommended in freezing climates

DETAILED PICTURES:



OPERATING PICTURE:



PERFORMANCE DATA:

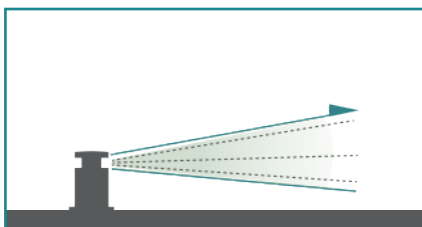
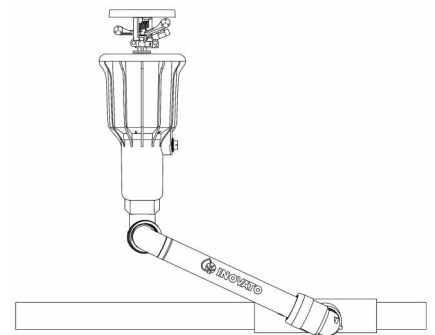
Nozzle Size	mm	2.8(Orange)			3.0(Red)			3.2(Green)			3.5(Blue)			☀️ 4.0(Black)		
		2.0	3.0	4.0	2.0	3.0	4.0	2.0	3.0	4.0	2.0	3.0	4.0	2.0	3.0	4.0
Pre.	bar	2.0	3.0	4.0	2.0	3.0	4.0	2.0	3.0	4.0	2.0	3.0	4.0	2.0	3.0	4.0
Flow Rate	m ³ /h	0.45	0.55	0.63	0.36	0.51	0.63	0.41	0.57	0.70	0.49	0.66	0.81	0.60	0.85	1.03
Rad.	m	11.0	11.5	12.0	9.50	11.5	12.0	10.0	11.5	12.0	10.0	11.5	12.0	10.5	12.0	13.0

*Performance table prepared under laboratory conditions

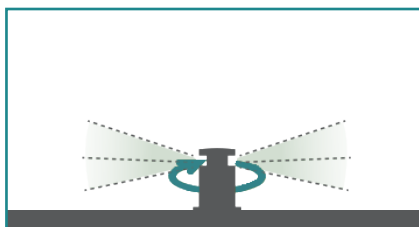
*For windy conditions use closer spacing

SUPER RAIN MODELS:

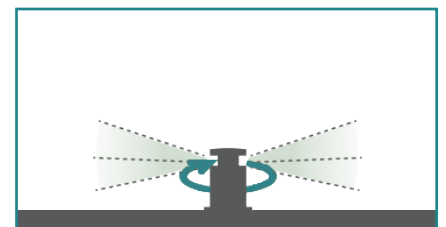
Nozzle Size	SRPIR0107	SRPIR0107*	SRPIR0108	SRPIR0109	SRPIR0110
mm	7/64"	0.118"	1/8"	9/64"	5/32"
mm	2.8	3.0	3.2	3.5	4.0
Extra Choice	(blank)= No option				



■ 11~13M



■ 20° to 340°



■ Full-circle

PLASTIC IMPACT SPRINKLER

8427

OPERATING RANGE:

- Working Pressure: 2.0-4.0bar
- Flow Rate: 0.45-1.03m³/h
- Spray Radius: 11-13m

APPLICATIONS:

FEATURES

- 1/2" Male thread
- Full-circle and part circle
- Anti-tailgate drive am Stainless steel trip
- Powder coated zinc die cast construction
- Stainless steel springs and fulcrum pin

USAGE

- Designed for agricultural use in solid set, Can also be used in landscape irrigation



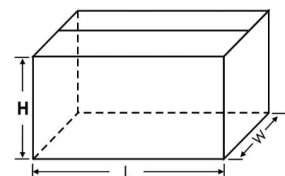
DETAILED PICTURES:



PERFORMANCE DATA:

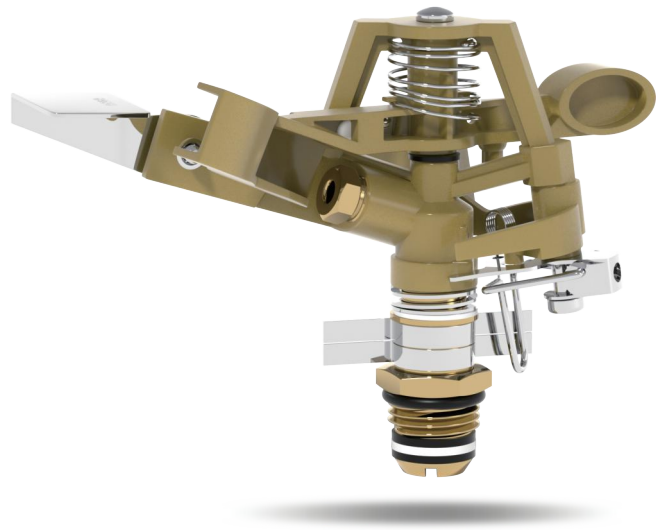
Nozzle Size	mm	2.8(Orange)			3.0(Red)			3.2(Green)			3.5(Blue)			4.0(Black)		
		2.0	3.0	4.0	2.0	3.0	4.0	2.0	3.0	4.0	2.0	3.0	4.0	2.0	3.0	4.0
Pre.	bar	2.0	3.0	4.0	2.0	3.0	4.0	2.0	3.0	4.0	2.0	3.0	4.0	2.0	3.0	4.0
Flow Rate	m ³ /h	0.45	0.55	0.63	0.36	0.51	0.63	0.41	0.57	0.70	0.49	0.66	0.81	0.60	0.85	1.03
Rad.	m	11.0	11.5	12.0	9.50	11.5	12.0	10.0	11.5	12.0	10.0	11.5	12.0	10.5	12.0	13.0

Item#	Qty/ctn	N.W./ctn	G.W./ctn	L xWx H (cm)	M ³
8427	50	3.55Kgs	4.1Kgs	49x38x14	0.03

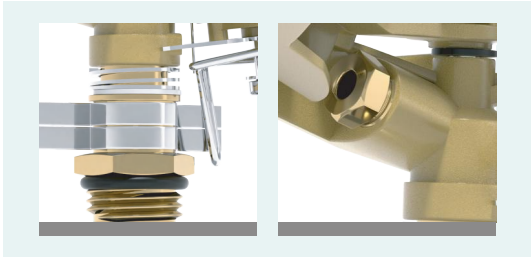


METAL IMPACT SPRINKLER

8028



DETAILED PICTURES:



OPERATING RANGE:

- Working Pressure: 2.0-4.0bar
- Flow Rate: 0.36-1.58m³/h
- Spray Radius: 10.5-13m

APPLICATIONS:

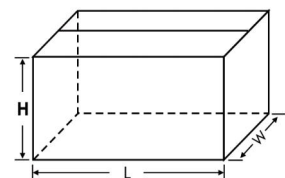
FEATURES

- 1/2" BSP / NPT male thread with O-ring
- Full-circle and part circle
- Anti-tailgate drive arm Stainless steel trip
- Powder coated zinc die cast construction
- Stainless steel springs and fulcrum pin

USAGE

- Designed for agricultural use in solid set, Can also be used in landscape irrigation

Item#	Qty/ctn	N.W./ctn	G.W./ctn	L xWx H (cm)	M ³
8028	32	7.37Kgs	7.95Kgs	46x43x12	0.024



OPERATING PICTURE :



PERFORMANCE DATA :

Nozzle Size	mm	3.57mm							3.96mm						
Pre.	PSI	25	30	35	40	45	50	55	25	30	35	40	45	50	55
	Bars	1.72	2.07	2.41	2.76	3.10	3.45	3.79	1.72	2.07	2.41	2.76	3.10	3.45	3.79
Flow Rate	GPM	2.79	3.13	3.48	3.74	4.01	4.13	4.71	3.54	3.94	4.35	4.62	4.90	5.17	5.44
	L/Min	10.55	11.83	13.12	14.14	15.16	15.61	17.77	13.40	14.94	16.49	17.52	18.55	19.58	20.61
Rad.	Feet	33	37	39	42	45	45	46	35	39	42	43	44	47	48
	Meter	10.06	11.28	11.89	12.8	13.72	13.72	14.02	10.67	11.89	12.80	13.11	13.41	14.33	14.63

Nozzle Size	mm	4.36mm							4.76mm						
Pre.	PSI	25	30	35	40	45	50	55	25	30	35	40	45	50	55
	Bars	1.72	2.07	2.41	2.76	3.10	3.45	3.79	1.72	2.07	2.41	2.76	3.10	3.45	3.79
Flow Rate	GPM	4.22	4.62	5.03	5.37	5.64	6.05	6.39	4.96	5.31	5.84	6.32	6.66	7.01	7.34
	L/Min	15.95	17.46	19.01	20.30	21.32	22.87	24.15	18.75	20.07	22.08	23.89	25.17	26.50	27.75
Rad.	Feet	37	41	43	45	46	48	48	37	40	44	45	45	48	48
	Meter	11.28	12.50	13.11	13.72	14.02	14.63	14.63	11.28	12.20	13.41	13.72	13.72	14.63	14.63

04

VALVES

INOVATO valves deliver reliable performance across diverse water conditions. The chlorine- and chemical-resistant rubber diaphragms ensure long-term durability. T-type valves can be paired with valve accessories, help achieve superior filtration efficiency, and maximize reliability in varied environments. Additionally, multiple solenoid choices can be compatible with different controllers, enabling seamless integration into efficient landscape irrigation systems.



T Series Solenoid Valve

Solenoid control valve

The INOVATO solenoid valve is a hydraulically driven diaphragm type hydraulic control valve. It can be turned on and off with electrical signal.

FACTORY-INSTALLED OPTIONS:

- LS: Valve without solenoid
- DC: DC-Latching Solenoid for battery-operated controllers

SOLENOID SPECIFICATIONS:

- **Solenoid Coil:**
AC Solenoid
DC-Latching Solenoid(Pulse)
- **Mechanical Solenoid:**
AC/DC Associated Mechanical Solenoid
DC-Latching Mechanical Solenoid(Pulse)

USER-INSTALLED OPTIONS:

- SNL-ADJ Pressure Regulator at the valve
- PRF-01 Filter Regulator

OPERATING SPECIFICATIONS:

- Flow: 2.8 to 33 m³/h; 12.57 to 148 gal/min
- Recommended pressure range:
0.069 to 1 MPa
10 to 145 PSI
- Temperature rating: 60°C; 140°F
- Warranty period: 2 years

TYPICAL APPLICATIONS:

- Irrigation System
- Garden Irrigation
- Agriculture
- Landscape Irrigation
- Greenhouses Irrigation
- Sprinkling Irrigation System
- Water Filtration System
- Outdoor And Public Sewage Systems
- Underground Irrigation System



YT210-1/2"

Inlet Size: 1/2inch, DN15
Female Thread, NPT/BSPT
L*W*H: 73.5*41*61 mm



YT210-3/4"

Inlet Size: 3/4inch, DN20
Female Thread,
NPT/BSPT/Quick Connector
L*W*H: 114.1*83*129.8 mm



YT210-1"

Inlet Size: 1inch, DN25
Female Thread,
NPT/BSPT/Quick Connector
L*W*H: 114.1*83*129.8 mm



YT210-1-1/2"

Inlet Size: 1-1/2inch, DN40
Female Thread, NPT/BSPT/Flanged
L*W*H: 165*129.4*188.6 mm



YT210-2"

Inlet Size: 2inch, DN50
Female Thread, NPT/BSPT/Flanged
L*W*H: 170.2*129.4*193.95 mm

COMPONENT



Solenoid Coil



PRF-01














SNL-ADJ Pressure Regulator

YT210 - SPECIFICATION BUILDER: ORDER 1+2+3+4+5+6

1 Model	2 Standard Features	3 Connection
YT210-1/2 = 1/2" YT210-3/4 = 3/4" YT210-1 = 1" YT210-1-1/2 = 1.5" YT210-2 = 2"	<ul style="list-style-type: none"> • B4= with flow control • BLANK= without flow control 	<ul style="list-style-type: none"> • BSPT Female threaded inlet/outlet • NPT Female threaded inlet/outlet
4 Feature Options	5 Solenoid Options	6 User-Installed Options
<ul style="list-style-type: none"> • 2W = For 1/2 to 2" • 3W = For 3/4 to 2" 	<ul style="list-style-type: none"> • Solenoid Coil = 24VAC, 9-24VDC, 9-30VDC pulse • Mechanical Solenoid = 24VAC/DC, 12-40VDC pulse 	<ul style="list-style-type: none"> • SNL-ADJ Pressure Regulator at the valve • PRF-01 Filter Regulator at the valve











VALVE ACCESSORIES

Accessories

	Product Number	Product Introduction
	Y-FJ-01-18	Coupling, 1/8", BSPT
	Y-FJ-02-18	Elbow, 1/8", BSPT
	Y-FJ-02-14	Elbow, 1/4", NPT
	Y-FJ-03-14	Plug, 1/4", NPT
	Y-FJ-04-18	Reducing tee, 1/8", BSPT
	Y-FJ-05-18	Cap, 1/8", BSPT
	Y-FJ-06-18	Copper cross
	Y-FJ-06-14	Copper cross
	Y-FJ-07-14	Pressure tapping, 1/4", NPT
	Y-FJ-08	Tape
	Y-FJ-09-L59	Strainer, 1/4", NPT, L59

VALVE ACCESSORIES

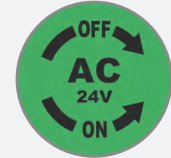
Accessories

	Product Number	Product Introduction
	Y-FJ-09-L41	Strainer, 1/4", NPT, L41
	Y-FJ-10-DN80	Flange, 3"
	Y-FJ-10-DN100	Flange, 4"
	Y-FJ-10-DN125	Flange, 5"
	Y-FJ-10-DN150	Flange, 6"
	Y-FJ-11	Pressure Reduce Pilot Valve
	Y-FJ-13	PA, 5*8
	Y-FJ-14	Pressure gauge
	Y-FJ-15	Pressure gauge probe
	Y-FJ-16	plastic water flow sensing unit for solenoid valve

SOLENOID Coil

The solenoid actuator is the key part of the valve controller and the important device to connect the valve and controller. The solenoid actuator is compatible with all major controller, can achieve a variety of functions.

The standard solenoid actuator is produced by the INOVATO-owned solenoid actuator factory.



2W electrical parameter & max cable length:

Solenoid valve type	Cable color	Watt	Amp		Coil resistance
			Inrush current	Holding current	
2W-24VAC	red/red	1.7	0.25	0.125	37.5
2W-24VDC	black/black	3.6	0.18	0.18	156
2W-12VDC	blue/blue	4.0	0.33	0.33	36
2W-9VDC	red/blue	4.3	0.33	0.33	36
Solenoid valve type	Cable color	Coil inductance	Pulse width		Coil resistance
2W-9-30VDC Pulse	red/black	12mH	20-500mSec		6

3W electrical parameter & max cable length:

Solenoid valve type	Cable color	Watt	Amp		Coil resistance
			Inrush current	Holding current	
3W-24VAC	red/red	2.2	0.13	0.13	37.5
3W-24VDC	black/black	4.3	0.12	0.12	137
3W-12VDC	blue/blue	4.3	0.28	0.28	34
3W-9VDC	red/blue	4.3	0.47	0.47	19
Solenoid valve type	Cable color	Coil inductance	Pulse width		Coil resistance
3W-9-30VDC Pulse	red/black	12mH	20-500mSec		6

FEATURE :

- Can choose normally open or closed
- Three-way equips manual reset: turn on, off, and auto
- Constant Voltage: 24V AC/24V DC, 12V DC-40V DC
- Protection Class: IP-68
- Pulse Voltage: 24V AC/V DC, 12-40V DC (for pulse solenoid)

3W-24VAC/VDC:

Product Identification	8DS
Port Thread	1/8" BSPT
Pressure	0.5-10 Bar
Material	Nylon reinforced
Sealed Material	NBR
Fluid TEMP	≤60°C
Voltage Range	24VAC/24VDC
In Rush Current	90mA
Holding Current	75mA



Mechanical Solenoid

AC/DC Associated Mechanical Solenoid

3W-12-40VDC:

Product Identification	9DS
Port Thread	1/8" BSPT
Pressure	0.5-10 Bar
Material	Nylon reinforced
Sealed Material	NBR
Fluid TEMP	≤60°C
Voltage Range	12-40VDC
In Rush Current	≥80mSec
Holding Current	2200-4700μF



Mechanical Solenoid

DC-Latching Mechanical Solenoid(Pulse)

VALVE BOXES

VX SERIES VALVE BOXES

This series of valve boxes aim to provide multiple purpose for essential irrigation components

FEATURES:

- Boxes and green lids are molded from black polypropylene for material consistency
- Modular extensions with pre-punched pipe holes enable deeper burial and adaptable configuration
- Multiple sizes feature corrugated sidewalls and wide-flange bases, engineered for maximum compression resistance and stability
- Overlapping lids prevent debris ingress, while UV-resistant, slip-proof lids meet environmental compliance

PRODUCT SPECIFICATIONS:

- Fits small control zone kits and other assorted components
- Durable HDPE construction



VX-6

Top Diameter: 150mm
Bottom Diameter: 205mm
Height: 235mm



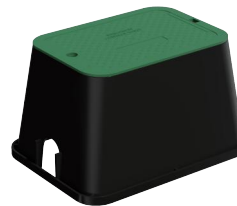
VX-12

Top
Width: 300mm
Length: 425mm
Bottom
Width: 380mm
Length: 525mm
Height: 305mm



VX-10

Top Diameter: 240mm
Bottom Diameter: 320mm
Height: 250mm



VX-12-A

Top
Width: 300mm
Length: 425mm
Bottom
Width: 380mm
Length: 525mm
Height: 305mm



VX-10-A

Top Diameter: 260mm
Bottom Diameter: 340mm
Height: 260mm








VX-15

Top
Width: 385mm
Length: 550mm
Bottom
Width: 520mm
Length: 690mm
Height: 310mm

VX SERIES VALVE BOXES:

Rectangular and round valve boxes made of plastic permit easy access to electric and manual valves and other equipment used in automatic irrigation installations.

<p>Rectangular and round valve boxes made of plastic permit easy access to electric and manual valves and other equipment used in automatic irrigation installations.</p>		
<p>VX-6</p> 	<ul style="list-style-type: none"> • Size: 6" • Top Diameter: 150mm Bottom Diameter: 205mm Height: 235mm 	<ul style="list-style-type: none"> • Black Round Body — 6" • Green Lid
<p>VX-10</p> 	<ul style="list-style-type: none"> • Size: 10" • Top Diameter: 240mm Bottom Diameter: 320mm Height: 250mm 	<ul style="list-style-type: none"> • Green Round Body — 10" • Green Lid
<p>VX-10-A</p> 	<ul style="list-style-type: none"> • Size: 10" • Top Diameter: 260mm Bottom Diameter: 340mm Height: 260mm 	<ul style="list-style-type: none"> • Black Round Body — 10" • Green Lid
<p>VX-12</p> 	<ul style="list-style-type: none"> • Size: 12" • Top Width: 300mm Bottom Width: 380mm Length: 425mm Length: 525mm • Height: 305mm 	<ul style="list-style-type: none"> • Standard Green Body — 12" • Green Lid
<p>VX-12-A</p> 	<ul style="list-style-type: none"> • Size: 12" • Top Width: 300mm Bottom Width: 380mm Length: 425mm Length: 525mm • Height: 305mm 	<ul style="list-style-type: none"> • Standard Black Body — 12" • Green Lid
<p>VX-15</p> 	<ul style="list-style-type: none"> • Size: 15" • Top Width: 385mm Bottom Width: 520mm Length: 550mm Length: 690mm • Height: 310mm 	<ul style="list-style-type: none"> • Jumbo Black Body — 15" • Green Lid

05

DRIPLINE SYSTEMS

Industry-leading durability and UV-resistant connectors
prevent leaks and endure tough conditions



MINI VALVE SERIES

LUCKY ORANGE

Single barbed to male threaded valve



ITEM NO	Ø x Ø	PACK
CMVPM160040	16×1/2"	500pcs

Single barbed to male threaded valve



ITEM NO	Ø x Ø	PACK
CMVPM200060	20×3/4"	500pcs

Single barbed off-take valve



ITEM NO	Ø x Ø	PACK
CMVPP200200	20×20	500pcs

Single barbed off-take valve



ITEM NO	Ø x Ø	PACK
CMVPP250250	25×25	500pcs

Double barbed off-take valve



ITEM NO	Ø x Ø	PACK
CMVPP2200200	20×20	500pcs

Double barbed off-take valve



ITEM NO	Ø x Ø	PACK
CMVPP2250250	25×25	500pcs

SF LOC FITTINGS

16-18 MM

FEATURES:

- Glass-filled polypropylene construction engineered for enhanced durability
- Thread-lock connection ensures secure engagement while retaining flexibility for maintenance and system modifications

APPLICATIONS:

- Use with 16 to 18 mm dripline or tubing

OPERATING SPECIFICATION:

- Operating pressure range: Up to 10 bar; 145PSI

SF LOC FITTINGS



SFLM1712
{ 1/2" MPT×LOC }



SFLM1734
{ 3/4" MPT×LOC }



SFLC1700
{ 3/4" FHT WITH CAP×LOC }



SFLE1717
{ LOC ELBOW }



SFLL1717
{ LOC COUPLER }



SFLC1700
{ 3/4" FH SWIVEL×LOC }



SFLLL1717
{ LOC TEE }

SUPER FITTINGS

17 MM

APPLICATION:

- 17 mm fits driplines, and PE irrigation hose with inside diameters of 14.2mm and 15.2mm

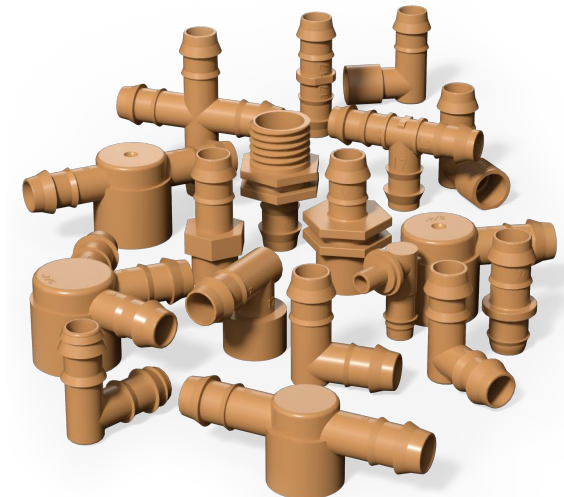
SPECIFICATIONS:

- Maximum recommended system pressure (without clamps): 3.45 bar
- Acceptable hose inside diameter for 17mm fittings: 14.2mm-15.2mm

FEATURES & BENEFITS:

- **BARBED FITTINGS:** For secure fit and easy installation without clamps, glue or tools
- **UV RESISTANT:** Withstands heat, direct sun and harsh chemicals
- **ONE-PIECE CONSTRUCTION:** For added strength, durability and long-term performance
- **ALLOWS FOR EASY ON-SITE INSPECTION:** For proper fitting and installation

AGRICULTURE & GARDEN & LANDSCAPE



SUPER FITTINGS

SUPER FITTINGS



INSERT COUPLING

{ CODE: SF17COUP }



INSERT ADAPTER

{ CODE: SF17IAPVC-B }



INSERT TEE

{ CODE: SF17ITEE }



INSERT ELBOW

{ CODE: SF17IELB }



INSERT CROSS

{ CODE: SF17ICRO }



GROMMET ELBOW

{ CODE: SF17ICELB }



1/2" MPT ADAPTER

{ CODE: SF17050MA }



3/4" MPT ADAPTER

{ CODE: SF17075MA }



1/2" MPT ELBOW

{ CODE: SF17050ELB }



3/4" MPT ELBOW

{ CODE: SF17075ELB }



1/2" FM THREADED TEE

{ CODE: SF17050FTEE }



3/4" FM THREADED TEE

{ CODE: SF17075FTEE }



3/4" FM x THREE WAY

{ CODE: SF17075FTW }



PLUG 17MM

{ CODE: SF17PLUG }

FLAG DRIPPER

OFD-04, OFD-08, OFD-16



FEATURES:

- Available in three colors so that it is easy to identify flow rate
- Self-tapping barbed inlet for easy installation
- Outlet barb for use with 1/4" micro tubing
- Spiral flow through a large-flow-path water passage reduces likelihood of clogging
- Twist-open top with lock for secure operation under pressure and for easy cleaning
- Durable high-impact plastic
- Resistant to chemicals and fertilizers used in landscape application
- Constructed of UV-resistant, durable plastic material to withstand the most adverse conditions

PRODUCT SPECIFICATIONS:

Operating pressure range	10 to 24 PSI		
Recommended operating pressure	25 PSI		
Inlet side	1/4" self-tapping barb		
Flow rates and color codes	● 1 GPH(4L/H)color code-black	● 2 GPH(8L/H)color code-green	● 4 GPH(12L/H)color code-red
Outlet side	1/4" barb		
Filter requirement	minimum of 150 mesh		
Material	body and cover: polypropylene		

Flow rate in gallons per hour at 5 to 30 PSI:

Color	Normal flow rate	Color	5PSI	10PSI	15PSI	20PSI	25PSI	30PSI
● Black	1 GPH	● Black	0.5	0.79	1	1.22	1.39	1.55
● Green	2 GPH	● Green	0.77	1.21	1.61	1.95	2.19	2.44
● Red	4 GPH	● Red	1.72	2.81	3.61	4.29	4.92	5.51

OFD-04

Maximum number of 1 GPH black drip emitters on 1/2" drip tubing with .600ID

Drip emitters spacing	Flow rate @ 25 PSI	Maximum length	Flow rate in GPM	Flow rate in GPH	# of drip emitters	Velocity (f/s)	Total head loss in PSI
1'	1.39	124	2.87	172.4	124	3.26	5.5
2'	1.39	192	2.22	133.4	96	2.52	5.19
3'	1.39	249	1.92	115.4	83	2.18	5.05
4'	1.39	304	1.76	105.6	76	2.0	5.23



OFD-08

Maximum number of 2 GPH green drip emitters on 1/2" drip tubing with .600ID

Drip emitters spacing	Flow rate @ 25 PSI	Maximum length	Flow rate in GPM	Flow rate in GPH	# of drip emitters	Velocity (f/s)	Total head loss in PSI
1'	2.19	91	3.32	199.3	91	3.77	5.2
2'	2.19	144	2.63	157.7	72	2.99	5.22
3'	2.19	186	2.26	135.8	62	2.57	5.09
4'	2.19	224	2.04	122.6	56	2.32	5.07



OFD-16

Maximum number of 4 GPH red drip emitters on 1/2" drip tubing with .600ID

Drip emitters spacing	Flow rate @ 25 PSI	Maximum length	Flow rate in GPM	Flow rate in GPH	# of drip emitters	Velocity (f/s)	Total head loss in PSI
1'	4.29	59	4.22	253.1	59	4.79	5.1
2'	4.29	94	3.36	201.6	47	3.81	5.38
3'	4.29	120	2.86	171.6	40	3.25	5.02
4'	4.29	148	2.65	158.7	37	3.01	5.31



*Based on around 90% flow uniformity and 0% slope

06

WATER FILTER

Landscape filters deploy disc or mesh design for 3D precision filtration. Weather-resistant materials ensure stability in harsh conditions, featuring full irrigation system compatibility and low-maintenance operation



Y-TYPE FILTER

GLA100

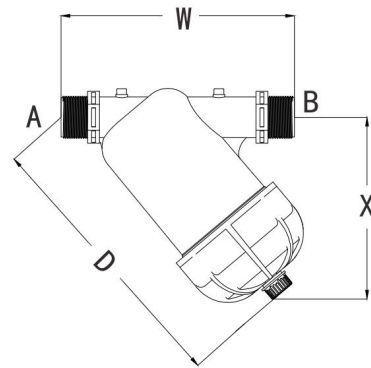
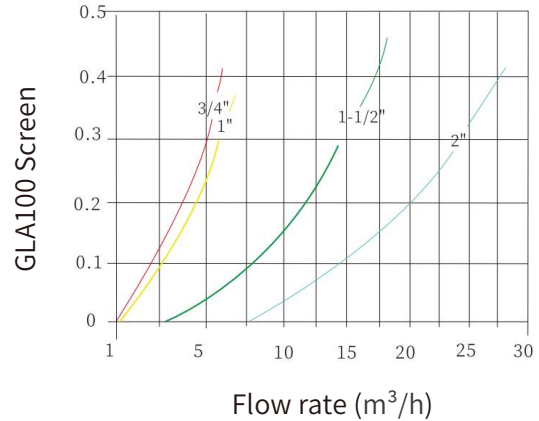
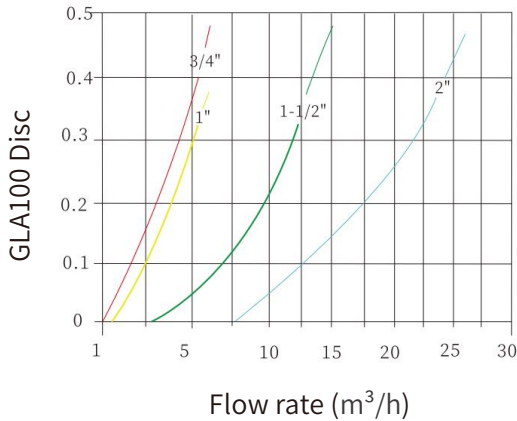


PRODUCT ADVANTAGES:

- Made of high quality polypropylene material , strong and durable
- Resistance to chemical attack
- With unique compact structure , easy handing and installation
- Cartridge type both in disc and screen
- Full connection sizes: 3/4" 、 1" 、 1.5" 、 2"
- A cap threaded on at auxiliary connection easy for waste discharge and pressure reduction
- Preset two connections for pressure gauge installation

Housing Material	Filterelement Material	
Modified PP	Disc: PP	
Modified PP	Screen: S.S.304	

Head Loss (Kg/cm²)-130 μm/120mesh:

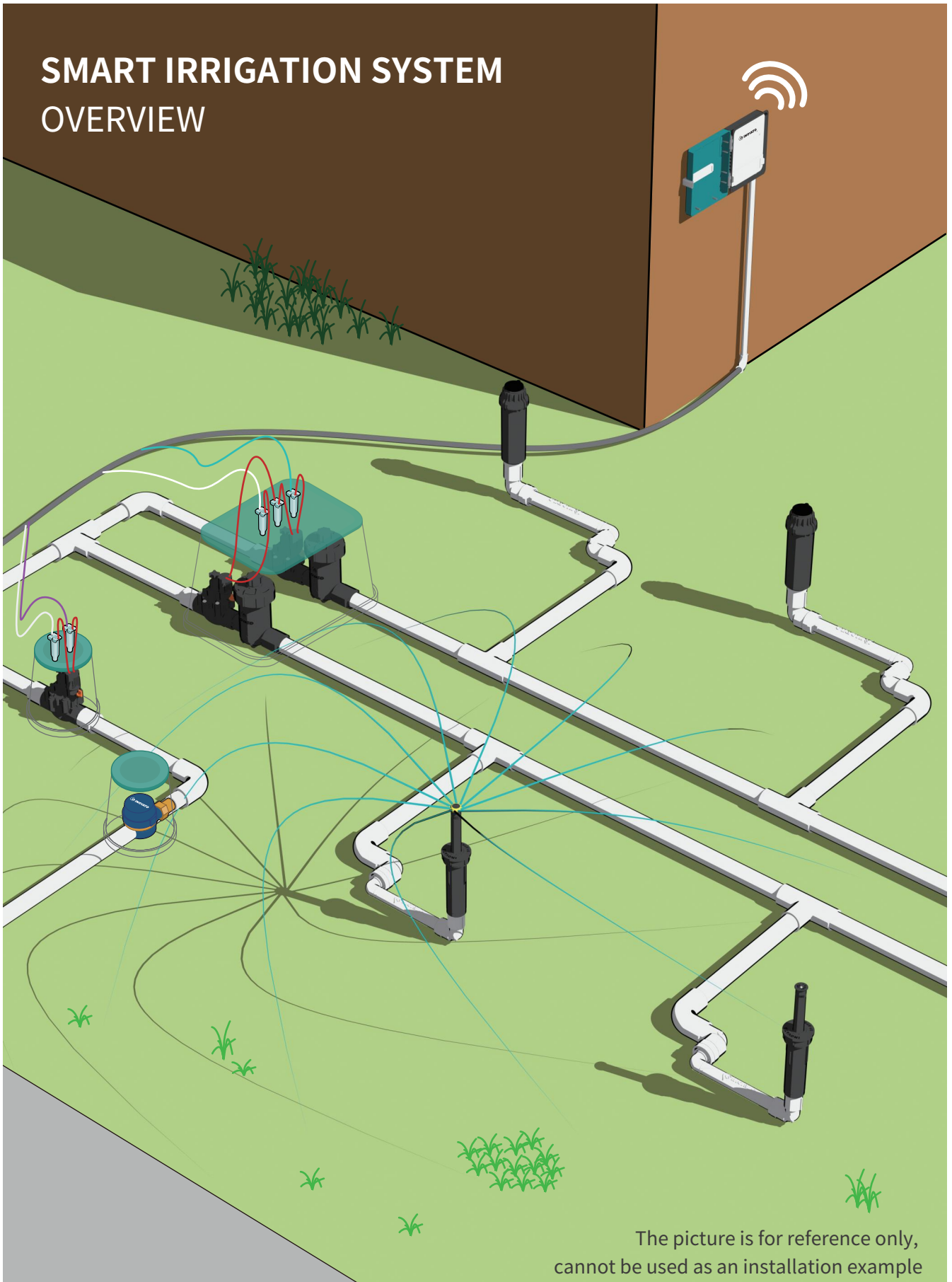


ITEM NO.	Connection	SIZE			Weight(g)	Max Flow Rate (m ³ /h)		Filtration surface (cm ²)	
		W	X	D		DISC	Screen	DISC	Screen
G100D20NB130	3/4" BSP	167	150	223	290	4		152	
G100D25NB130	1" BSP	167	150	223	295	5		152	
G100D40SB130	1-1/2" BSP	264	206	312	1160	12		206	
G100D50NB130	2" BSP	264	206	312	1205	22		362	
G100S20NB120	3/4" BSP	167	150	223	230		5		126
G100S25NB120	1" BSP	167	150	223	230		6		126
G100S40SB120	1-1/2" BSP	264	206	312	830		14		180
G100S50NB120	2" BSP	264	206	312	855		24		328

⦿ NPT Thread available

Irrigation Schemes

SMART IRRIGATION SYSTEM OVERVIEW



The picture is for reference only, cannot be used as an installation example



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