



2025



Creative 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 Spirit:** We have the pioneering and innovative spirit and are eager to progress.

**Our Vision:** To build a world-class technology enterprise and create a harmonious and beautiful life.

**Our Mission:** Every family can enjoy a green and healthy life.

**Our Values:** The product is like the personal character and the quality is life. We will focus on customer satisfaction and create values for our customers.





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# 01

## POP-UP SPRINKLERS

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 INVOTA 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.



# POP-UP SPRINKLERS

## Applications Comparison

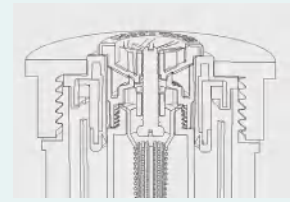
APPLICATIONS	GF	SF
Shrubs	○	○
Agriculture		○
Garden	○	○
Courtyard		○
Municipalities		○
Golf Course		○

△ Optional check valve available

## Our Advantage

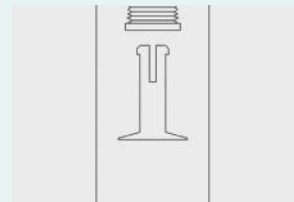
### CO-MOLDED WIPER SEAL

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.



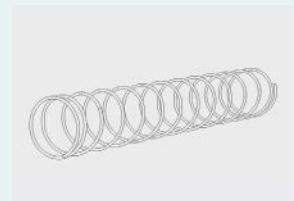
### FLOGUARD TECHNOLOGY

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.



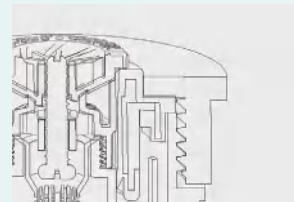
### HEAVY-DUTY SPRING

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 not included)

## Detailed Pictures



## Operating Picture



### GF02

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



### GF04

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



### GF06

overall height: 24.1cm  
pop up height: 15cm  
exposed diameter: 3 cm  
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: 10cm, 15cm, 30cm models (up to 3m of elevation)
- Reclaimed water ID cap

## Detailed picture



## Operating picture



### SF02

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



### SF03

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



### SF04

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



### SF06

overall height: 22.5cm  
Pop up height: 15cm  
exposed diameter: 5.7cm  
inlet size: 1/2" female thread

### SF12

overall height: 41cm  
Pop up height: 30cm  
exposed diameter: 5.7cm  
inlet size: 1/2" female thread

# 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 to simple adjustment
- 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 pictures



/ Performance Data FF NOZZLES

Angle	Pressure bar kPa	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:0°					10AN Dark Blue 3.0 Radius Adjustable:0°~360° Trajectory:15°				
		Radius		Flow	Precip mm/h		Radius		Flow	Precip mm/h		Radius		Flow	Precip mm/h		Radius		Flow	Precip mm/h	
		m	m <sup>3</sup> /hr	l/m	■	▲	m	m <sup>3</sup> /hr	l/m	■	▲	m	m <sup>3</sup> /hr	l/m	■	▲	m	m <sup>3</sup> /hr	l/m	■	▲
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	2.6	0.04	0.68	49	56
	1.5 150	1.0	0.02	0.39	178	206	1.6	0.04	0.60	108	124	2.2	0.04	0.72	72	83	2.8	0.05	0.80	49	57
	<b>2.1 210</b>	<b>1.2</b>	<b>0.03</b>	<b>0.48</b>	<b>167</b>	<b>193</b>	<b>1.8</b>	<b>0.04</b>	<b>0.65</b>	<b>98</b>	<b>114</b>	<b>2.4</b>	<b>0.05</b>	<b>0.83</b>	<b>67</b>	<b>77</b>	<b>3.0</b>	<b>0.06</b>	<b>0.94</b>	<b>49</b>	<b>56</b>
	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	3.2	0.06	1.06	48	56
	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	3.5	0.07	1.18	47	54
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	2.6	0.08	1.35	49	56
	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	2.8	0.10	1.61	49	57
	<b>2.1 210</b>	<b>1.2</b>	<b>0.05</b>	<b>0.83</b>	<b>139</b>	<b>160</b>	<b>1.8</b>	<b>0.08</b>	<b>1.35</b>	<b>102</b>	<b>118</b>	<b>2.4</b>	<b>0.10</b>	<b>1.65</b>	<b>67</b>	<b>77</b>	<b>3.0</b>	<b>0.11</b>	<b>1.89</b>	<b>49</b>	<b>56</b>
	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	3.2	0.13	2.11	48	56
	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	3.5	0.14	2.37	47	54
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	2.6	0.11	1.80	49	56
	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	2.8	0.13	2.14	49	57
	<b>2.1 210</b>	<b>1.2</b>	<b>0.07</b>	<b>1.25</b>	<b>162</b>	<b>187</b>	<b>1.8</b>	<b>0.10</b>	<b>1.61</b>	<b>91</b>	<b>105</b>	<b>2.4</b>	<b>0.13</b>	<b>2.20</b>	<b>67</b>	<b>77</b>	<b>3.0</b>	<b>0.15</b>	<b>2.52</b>	<b>49</b>	<b>56</b>
	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	3.2	0.17	2.82	48	56
	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	3.5	0.19	3.16	47	54
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	2.6	0.16	2.71	49	56
	1.5 150	1.0	0.08	1.38	157	181	1.6	0.12	1.96	88	102	2.2	0.17	2.87	72	83	2.8	0.19	3.21	49	57
	<b>2.1 210</b>	<b>1.2</b>	<b>0.10</b>	<b>1.60</b>	<b>139</b>	<b>160</b>	<b>1.8</b>	<b>0.13</b>	<b>2.24</b>	<b>84</b>	<b>97</b>	<b>2.4</b>	<b>0.20</b>	<b>3.30</b>	<b>67</b>	<b>77</b>	<b>3.0</b>	<b>0.23</b>	<b>3.78</b>	<b>49</b>	<b>56</b>
	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	3.2	0.25	4.23	48	56
	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	3.5	0.28	4.73	47	54
240°	1.0 100	0.9	0.12	1.94	220	254	1.5	0.15	2.44	99	114	2.0	0.20	3.32	77	89	2.6	0.22	3.61	49	56
	1.5 150	1.0	0.13	2.24	192	221	1.6	0.17	2.83	96	111	2.2	0.23	3.83	72	83	2.8	0.26	4.28	49	57
	<b>2.1 210</b>	<b>1.2</b>	<b>0.16</b>	<b>2.59</b>	<b>168</b>	<b>194</b>	<b>1.8</b>	<b>0.20</b>	<b>3.28</b>	<b>92</b>	<b>107</b>	<b>2.4</b>	<b>0.26</b>	<b>4.40</b>	<b>67</b>	<b>77</b>	<b>3.0</b>	<b>0.30</b>	<b>5.03</b>	<b>49</b>	<b>56</b>
	2.5 250	1.3	0.17	2.86	153	177	1.9	0.22	3.63	89	103	2.6	0.29	4.86	63	73	3.2	0.34	5.64	48	56
	3.0 300	1.4	0.19	3.17	139	160	2.1	0.24	4.03	86	99	2.9	0.32	5.38	59	68	3.5	0.38	6.31	47	54
270°	1.0 100	0.9	0.13	2.09	211	244	1.5	0.18	3.08	111	128	2.0	0.22	3.73	77	89	2.6	0.24	4.06	49	56
	1.5 150	1.0	0.14	2.40	183	211	1.6	0.21	3.52	106	122	2.2	0.26	4.31	72	83	2.8	0.29	4.82	49	57
	<b>2.1 210</b>	<b>1.2</b>	<b>0.16</b>	<b>2.75</b>	<b>159</b>	<b>183</b>	<b>1.8</b>	<b>0.24</b>	<b>4.02</b>	<b>101</b>	<b>116</b>	<b>2.4</b>	<b>0.30</b>	<b>4.95</b>	<b>67</b>	<b>77</b>	<b>3.0</b>	<b>0.34</b>	<b>5.66</b>	<b>49</b>	<b>56</b>
	2.5 250	1.3	0.18	3.02	144	166	1.9	0.27	4.42	97	112	2.6	0.33	5.47	63	73	3.2	0.38	6.34	48	56
	3.0 300	1.4	0.20	3.33	130	150	2.1	0.29	4.87	92	107	2.9	0.36	6.05	59	68	3.5	0.43	7.10	47	54
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	2.6	0.32	5.41	49	56
	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	2.8	0.39	6.43	49	57
	<b>2.1 210</b>	<b>1.2</b>	<b>0.18</b>	<b>2.98</b>	<b>129</b>	<b>149</b>	<b>1.8</b>	<b>0.28</b>	<b>4.62</b>	<b>87</b>	<b>100</b>	<b>2.4</b>	<b>0.40</b>	<b>6.61</b>	<b>67</b>	<b>77</b>	<b>3.0</b>	<b>0.45</b>	<b>7.55</b>	<b>49</b>	<b>56</b>
	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	3.2	0.51	8.45	48	56
	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	3.5	0.57	9.47	47	54

Angle	Pressure bar kPa	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°				
		Radius		Flow	Precip mm/h		Radius		Flow	Precip mm/h		Radius		Flow	Precip mm/h	
		m	m <sup>3</sup> /hr	l/m	■	▲	m	m <sup>3</sup> /hr	l/m	■	▲	m	m <sup>3</sup> /hr	l/m	■	▲
45°	1.0 100	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	3.4	0.06	0.97	40	46	4.3	0.09	1.51	39	45	4.9	0.12	1.94	38	44
	<b>2.1 210</b>	<b>3.7</b>	<b>0.07</b>	<b>1.23</b>	<b>44</b>	<b>51</b>	<b>4.6</b>	<b>0.11</b>	<b>1.79</b>	<b>40</b>	<b>46</b>	<b>5.2</b>	<b>0.13</b>	<b>2.23</b>	<b>39</b>	<b>45</b>
	2.5 250	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	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	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	3.4	0.12	1.93	40	46	4.3	0.18	3.03	39	45	4.9	0.23	3.88	38	44
	<b>2.1 210</b>	<b>3.7</b>	<b>0.15</b>	<b>2.46</b>	<b>44</b>	<b>51</b>	<b>4.6</b>	<b>0.21</b>	<b>3.57</b>	<b>40</b>	<b>46</b>	<b>5.2</b>	<b>0.27</b>	<b>4.45</b>	<b>39</b>	<b>45</b>
	2.5 250	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	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	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	3.4	0.15	2.58	40	46	4.3	0.24	4.03	39	45	4.9	0.31	5.17	38	44
	<b>2.1 210</b>	<b>3.7</b>	<b>0.20</b>	<b>3.28</b>	<b>44</b>	<b>51</b>	<b>4.6</b>	<b>0.29</b>	<b>4.76</b>	<b>40</b>	<b>46</b>	<b>5.2</b>	<b>0.36</b>	<b>5.94</b>	<b>39</b>	<b>45</b>
	2.5 250	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	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	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	3.4	0.23	3.86	40	46	4.3	0.36	6.05	39	45	4.9	0.47	7.75	38	44
	<b>2.1 210</b>	<b>3.7</b>	<b>0.30</b>	<b>4.92</b>	<b>44</b>	<b>51</b>	<b>4.6</b>	<b>0.43</b>	<b>7.14</b>	<b>40</b>	<b>46</b>	<b>5.2</b>	<b>0.53</b>	<b>8.91</b>	<b>39</b>	<b>45</b>
	2.5 250	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	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	3.2	0.23	3.88	34	40	4.0	0.41								

# RF NOZZLES



## Application:

It is applied to turfgrass, shrubs, garden, etc

## Features:

- True matched precipitation any arc or radius setting
- 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
- Adjustable arc and radius

## 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 bar kPa	90°					180°					210°					270°					360°									
		Radius m	Flow m <sup>3</sup> /hr	Flow l/m	Precip mm/h	■	▲	Radius m	Flow m <sup>3</sup> /hr	Flow l/m	Precip mm/h	■	▲	Radius m	Flow m <sup>3</sup> /hr	Flow l/m	Precip mm/h	■	▲	Radius m	Flow m <sup>3</sup> /hr	Flow l/m	Precip mm/h	■	▲	Radius m	Flow m <sup>3</sup> /hr	Flow l/m	Precip mm/h	■	▲
90° 	1.7 170	--	--	--	--	--	5.2	0.08	1.29	12	13	7.6	0.16	2.69	11	13	10.1	0.24	3.94	9	11										
	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	10.4	0.26	4.28	10	11										
	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	10.4	0.28	4.58	10	12										
	<b>2.8 280</b> ●	<b>4.1</b>	<b>0.05</b>	<b>0.80</b>	<b>11</b>	<b>13</b>	● <b>6.1</b>	<b>0.10</b>	<b>1.63</b>	<b>11</b>	<b>12</b>	● <b>9.1</b>	<b>0.20</b>	<b>3.26</b>	<b>10</b>	<b>11</b>	● <b>10.7</b>	<b>0.29</b>	<b>4.84</b>	<b>10</b>	<b>12</b>										
	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	10.7	0.31	5.22	11	13										
	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	10.7	0.33	5.41	11	13										
	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	10.7	0.34	5.68	12	14										
180° 	1.7 170	--	--	--	--	--	4.9	0.14	2.27	11	13	7.6	0.33	5.46	11	13	10.1	0.50	8.36	10	11										
	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	10.4	0.51	8.48	9	11										
	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	10.4	0.60	10.03	11	13										
	<b>2.8 280</b> ●	<b>4.1</b>	<b>0.10</b>	<b>1.59</b>	<b>11</b>	<b>13</b>	● <b>5.8</b>	<b>0.18</b>	<b>2.92</b>	<b>11</b>	<b>12</b>	● <b>9.1</b>	<b>0.42</b>	<b>6.90</b>	<b>10</b>	<b>12</b>	● <b>10.7</b>	<b>0.65</b>	<b>10.83</b>	<b>11</b>	<b>13</b>										
	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	10.7	0.70	11.73	12	14										
	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	10.7	0.73	12.15	13	15										
	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	10.7	0.75	12.41	13	15										
210° 	1.7 170	--	--	--	--	--	4.9	0.17	2.73	12	14	7.6	0.39	6.37	11	13	10.1	0.59	9.80	10	12										
	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	10.4	0.65	10.75	10	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	10.4	0.70	11.66	11	13										
	<b>2.8 280</b> ●	<b>4.1</b>	<b>0.11</b>	<b>1.86</b>	<b>11</b>	<b>13</b>	● <b>5.8</b>	<b>0.20</b>	<b>3.26</b>	<b>10</b>	<b>12</b>	● <b>9.1</b>	<b>0.49</b>	<b>8.03</b>	<b>10</b>	<b>12</b>	● <b>10.7</b>	<b>0.75</b>	<b>12.45</b>	<b>11</b>	<b>13</b>										
	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	10.7	0.80	13.40	12	14										
	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	10.7	0.85	14.23	13	15										
	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	10.7	0.90	14.91	13	16										
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															
	<b>2.8 280</b> ●	<b>4.1</b>	<b>0.14</b>	<b>2.39</b>	<b>11</b>	<b>13</b>	● <b>5.8</b>	<b>0.25</b>	<b>4.17</b>	<b>10</b>	<b>12</b>	● <b>9.1</b>	<b>0.63</b>	<b>10.35</b>	<b>10</b>	<b>12</b>															
	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	11	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															
	<b>2.8 280</b> ●	<b>4.1</b>	<b>0.19</b>	<b>3.18</b>	<b>11</b>	<b>13</b>	● <b>5.8</b>	<b>0.34</b>	<b>5.61</b>	<b>10</b>	<b>12</b>	● <b>9.1</b>	<b>0.84</b>	<b>13.80</b>	<b>10</b>	<b>12</b>															
	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															

# HF01

## 04

### Application

It is applied to turfgrass, shrubs, garden, etc.

### Features

- Models: 10cm
- Arc setting: 40°~360°
- Nozzle choice: 8
- Nozzle range: 0.5~4.0 blue
- Factory installed rubber cover
- Through-the-top arc adjustment
- Quick check arc mechanism
- Water lubricated gear-drive
- Warranty: 2 years

### Operating Specification

- Radius: 4.3~10.7m
- Flow: 0.08~1.0m<sup>3</sup>/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 Specification

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



HF01-04

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

### / Performance Data

HF01 standard blue nozzle

	Pressure		Radius m	Flow m <sup>3</sup> /hr	Flow l/m	Precipmm/h	
	bar	kPa				■	▲
<b>0.50</b> ■ Blue Haze	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
<b>0.75</b> ■ Blue Haze	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
<b>1.0</b> ■ Blue Haze	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
<b>1.5</b> ■ Blue Haze	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
<b>2.0</b> ■ Blue Haze	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
<b>2.5</b> ■ Blue Haze	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
<b>3.0</b> ■ Blue Haze	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
<b>4.0</b> ■ Blue Haze	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:

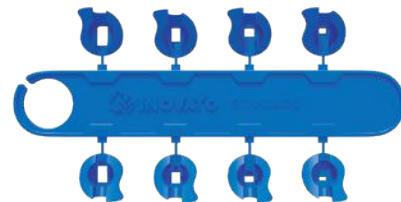
All precipitation rates calculated for 180° operation.

For the precipitation rate for a 360° sprinkler, divide by 2.

Models	Standard
HF01-04=10cm pop-up	Adjustable angles 8 standard 4 low angle

#### Examples:

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



# HF02

04、06、12

## Application

It is applied to turfgrass, shrubs, garden, etc.

## Features

- Models: 10cm,15cm,30cm
- Arc setting: 50°~360°
- Factory installed rubber cover
- Through-the-top arc adjustment
- Quick check arc mechanism
- Water lubricated gear-drive
- Nozzle choice: blue、grey
- Nozzle range: 1.5~8.0 blue, 2.0~4.5 low angle blue
- Warranty: 5 years

## Operating Specification

- Radius: 4.9~14.0m
- Flow: 0.07~3.23m<sup>3</sup>/hr; 1.2~53.8l/min
- Recommended working pressure: 1.7~4.5bar; 170~450kPa
- Operating working pressure: 1.4~7bar; 140~700kPa



# Operating Specification

- 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	Adjustable arc,	(blank)=nil	1.5-4.0=factory installed
HF02-06=15cm pop-up	8 standard nozzles		nozzle number
HF02-12=30cm pop-up	4 low angle nozzles		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							
Nozzle	Pressure		Radius m	Flow m <sup>3</sup> /hr	Flow l/m	Precipmm/h	
	bar	kPa				■	▲
1.5 Blue Haze	1.7	170	8.8	0.27	4.5	7	8
	2.0	200	9.1	0.29	4.8	7	8
	2.5	250	9.4	0.32	5.4	7	8
	3.0	300	9.8	0.35	5.9	7	9
	3.5	350	9.8	0.38	6.4	8	9
	4.0	400	9.8	0.41	6.8	9	10
	4.5	450	9.4	0.43	7.8	10	11
2.0 Blue Haze	1.7	170	10.1	0.32	5.4	6	7
	2.0	200	10.1	0.35	5.8	7	8
	2.5	250	10.1	0.39	6.5	8	9
	3.0	300	10.4	0.43	7.2	8	9
	3.5	350	10.4	0.47	7.8	9	10
	4.0	400	10.4	0.50	8.3	9	11
	4.5	450	10.4	0.53	8.8	10	11
2.5 Blue Haze	1.7	170	10.1	0.39	6.6	8	9
	2.0	200	10.4	0.43	7.1	8	9
	2.5	250	10.7	0.48	8.0	8	10
	3.0	300	10.7	0.54	8.9	9	11
	3.5	350	10.7	0.58	9.7	10	12
	4.0	400	10.7	0.62	10.4	11	13
	4.5	450	10.7	0.66	11.1	12	13
3.0 Blue Haze	1.7	170	10.7	0.50	8.4	9	10
	2.0	200	10.7	0.54	9.1	10	11
	2.5	250	11.0	0.61	10.2	10	12
	3.0	300	11.6	0.68	11.4	10	12
	3.5	350	11.9	0.74	12.3	10	12
	4.0	400	11.9	0.79	13.2	11	13
	4.5	450	11.9	0.84	14.0	12	14
4.0 Blue Haze	1.7	170	11.3	0.68	11.3	11	12
	2.0	200	11.6	0.73	12.2	11	13
	2.5	250	11.9	0.81	13.6	12	13
	3.0	300	12.2	0.90	15.0	12	14
	3.5	350	12.2	0.97	16.2	13	15
	4.0	400	12.5	1.04	17.3	13	15
	4.5	450	12.5	1.10	18.3	14	16
5.0 Blue Haze	1.7	170	11.3	0.84	14.0	13	15
	2.0	200	11.6	0.91	15.2	14	16
	2.5	250	11.9	1.02	17.1	15	17
	3.0	300	12.8	1.14	19.0	14	16
	3.5	350	12.8	1.24	20.6	15	17
	4.0	400	12.8	1.32	22.1	16	19
	4.5	450	12.8	1.41	23.4	17	20
6.0 Blue Haze	1.7	170	11.6	1.01	16.8	15	17
	2.0	200	11.9	1.09	18.2	15	18
	2.5	250	12.2	1.22	20.4	16	19
	3.0	300	13.1	1.36	22.7	16	18
	3.5	350	13.1	1.47	24.5	17	20
	4.0	400	13.4	1.57	26.2	18	20
	4.5	450	13.4	1.67	27.9	19	21
8.0 Blue Haze	1.7	170	11.3	1.35	22.5	21	25
	2.0	200	11.9	1.46	24.3	21	24
	2.5	250	12.5	1.63	27.2	21	24
	3.0	300	13.4	1.81	30.2	20	23
	3.5	350	13.7	1.95	32.6	21	24
	4.0	400	14.0	2.09	34.8	21	25
	4.5	450	14.0	2.22	36.9	23	26

/ Performance Data							
HF02 low angle blue nozzle							
Nozzle	Pressure		Radius m	Flow m <sup>3</sup> /hr	Flow l/m	Precipmm/h	
	bar	kPa				■	▲
2.0 Blue Haze	1.7	170	7.3	0.33	5.6	12	14
	2.0	200	7.6	0.36	6.0	12	14
	2.5	250	7.9	0.40	6.7	13	15
	3.0	300	8.2	0.45	7.4	13	15
	3.5	350	8.5	0.48	8.0	13	15
	4.0	400	8.8	0.52	8.6	13	15
	4.5	450	9.1	0.55	9.1	13	15
2.5 Blue Haze	1.7	170	7.9	0.44	7.3	14	16
	2.0	200	8.2	0.47	7.9	14	16
	2.5	250	8.8	0.53	8.8	14	16
	3.0	300	9.4	0.59	9.8	13	15
	3.5	350	10.1	0.64	10.6	13	15
	4.0	400	10.4	0.68	11.3	13	15
	4.5	450	10.7	0.72	12.0	13	15
3.5 Blue Haze	1.7	170	8.5	0.58	9.7	16	18
	2.0	200	8.8	0.62	10.3	16	18
	2.5	250	9.1	0.68	11.4	16	19
	3.0	300	10.1	0.75	12.5	15	17
	3.5	350	10.7	0.80	13.3	14	16
	4.0	400	11.0	0.85	14.1	14	16
	4.5	450	11.3	0.89	14.8	14	16
4.5 Blue Haze	1.7	170	8.2	0.71	11.8	21	24
	2.0	200	8.8	0.76	12.7	19	23
	2.5	250	9.1	0.84	14.1	20	23
	3.0	300	10.1	0.93	15.5	18	21
	3.5	350	10.7	1.00	16.6	18	20
	4.0	400	11.0	1.06	17.6	18	20
	4.5	450	11.3	1.12	18.6	18	20

# 02

## “LUCKY ORANGE” MINI VAVLE SERIES

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

## APPLICATIONS:

- 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" FPT x THREE WAY

{ CODE:SF17075FTW }



### PLUG 17MM

{ CODE:SF17PLUG }

# 03

## SOLENOID VALVE

The outer flow channel design and 3-way waterproof coil makes the corresponding speed of solenoid valve faster.

The outer flow channel of the solenoid is increased and the anti blocking ability is stronger.

The solenoid has low energy consumption and can realize long-distance control. The solenoid has a built-in three-way flow channel base and can be equipped with a two position three-way control valve.

The solenoid is equipped with a manual control knob, which has open, close, and automatic three modes.

Split structure design, built-in diaphragm, solenoid separated from overflow channel, long service life.

# SOLENOID VALVE



# 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 :

- **Coil Solenoid:**
  - AC/DC 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 Pressure Regulator at the valve

## OPERATING SPECIFICATIONS :

- Flow: 2.8 to 33 m<sup>3</sup>/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

## Accessories



Coil Solenoid



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

# Pilot Valve

## Pressure Regulating Pilot Valve

### Typical Applications:

- Pressure reducing valve (tee control loop), the valve connecting port caliber from 1-1/2-inches to 6-inches.
- Pressure sustaining valve (tee control loop), the valve connecting port caliber from 1-1/2-inches to 6-inches.
- Adjustable tee hydromantic interrupter (normally on/off).
- Automatically adjustable controller switch, the valve connecting port caliber from 1-1/2-inches to 4-inches.



### Technical Data:

Recommended Pressure Range	10MPa	145PSI
Temperature Rating	water temperature reaches 50°C	122°F
Flow		
From No.0 Port to No.3 Port	KV	CV
	0.13m <sup>3</sup> /h@1MPaΔP	0.15GPM@1psiΔP
From No.3 Port to No.2 Port	KV	CV
	0.08m <sup>3</sup> /h@1MPaΔP	0.09GPM@1psiΔP
Size	1/8-inch, Female Thread, NPT	

### Operating Specifications/ Adjustment Range

Spring	Pressure	
	Mpa	PSI
Normal	0.08~0.65	11~95
White	0.05~0.30	7~40

### Connecting Port:

No.0	The port connects the inlet water inlet of pressure reducing valve or the exhaust vent of pressure sustaining valve.
No.3	The port always connects the valve controller between diaphragm and bonnet.
No.2	The port connects the exhaust vent of pressure reducing valve or the inlet water inlet of pressure sustaining valve.
No.1	The port always connects the outlet water outlet for pressure measurement.

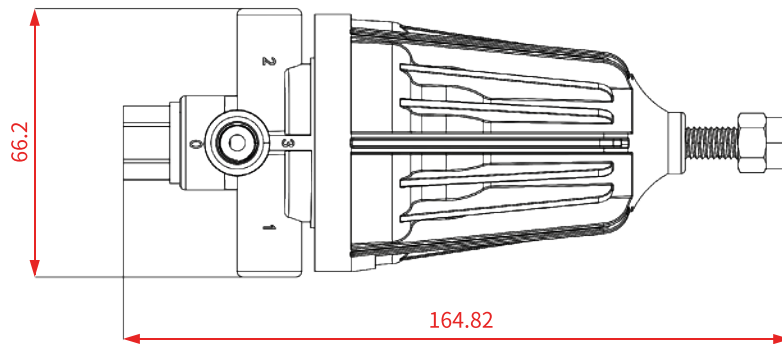
### Functions:

The direct multifunctional tee pilot valve is driven by a pressure sensitive diaphragm, keeps the balance between Hydraulic pressure and the setting spring force.

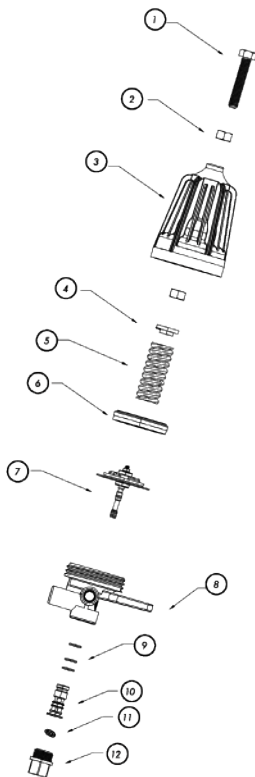
**It will guide the flow between different ports when detected different pressure rate:**

- ★ If the detecting pressure was higher than the setting pressure, the valve would guide the flow from no.0 port to no.3 port.
- ★ If the detecting pressure was lower than the setting pressure, the valve would guide the flow from no.3 port to no.2 port.
- ★ The related pressure is monitored by no.1 port continuously.

### Technical Specifications (mm):



### Spare Parts:



#	Accessories	Material
1	Adjustment Screw	SUS304
2	Nuts	SUS304
3	Bonnet-Pilot Valve	Nylon PA66
4	Spring Seat	Nylon PA66
5	Spring	SUS304
6	Diaphragm Lower Platen	Nylon PA66
7	Internal Components	
8	Valve Seat	Nylon PA66
9	O Ring-Water Separator	NBR
10	Seat-Water Separator	POM
11	O Ring-Nuts	NBR
12	Nuts-Valve Seat	Nylon PA66

## SOLENOID

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
			Surge current	Holding current	
2W-24V AC	red/red	1.7	0.25	0.125	37.5
2W-24V DC	black/black	3.6	0.18	0.18	156
2W-12V DC	blue/blue	4.0	0.33	0.33	36
2W-9V DC	red/blue	4.3	0.33	0.33	36
Solenoid valve type	Cable color	Coil inductance	Pulse width		Coil resistance
2W-9-24V DC Pulse	red/black	12mH	20-500mSec		6

### 3W electrical parameter & max cable length:

Solenoid valve type	Cable color	Watt	Amp		Coil resistance
			Surge current	Holding current	
3W-24V AC	red/red	2.2	0.13	0.13	37.5
3W-24V DC	black/black	4.3	0.12	0.12	137
3W-12V DC	blue/blue	4.3	0.28	0.28	34
3W-9V DC	red/blue	4.3	0.47	0.47	19
Solenoid valve type	Cable color	Coil inductance	Pulse width		Coil resistance
3W-9-24V DC 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: 6-20V, 9-40V (for pulse solenoid)

### 3W-24V AC/24V DC:

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-12-40V DC pulse:

Product Identification	9DS
Port Thread	1/8" DN6
Pressure	0.5-10 Bar
Material	Nylon reinforced
Sealed Material	NBR
Fluid TEMP	≤60°C
Voltage Range	12-24 DC
In Rush Current	≥80mSec
Holding Current	2200-4700μF














### Mechanical Solenoid

DC-Latching Mechanical Solenoid(Pulse)

# SOLENOID 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-01-14	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, 1/8", NPT
	Y-FJ-08	Tape
	Y-FJ-09-L59	Strainer, 1/4", NPT, L59

# SOLENOID 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-12	Clamp connector, 3"
	Y-FJ-12-02	Clamp connector, 4"
	Y-FJ-13	PA, 5*8
	Y-FJ-14	Pressure gauge
	Y-FJ-15	Pressure gauge probe

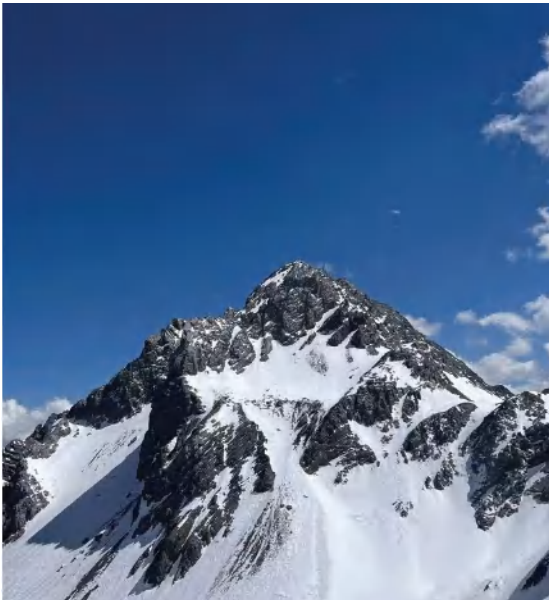
# 04

GLA100  
Y-shaped filter



# INOVATO

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

Modified PP

Modified PP

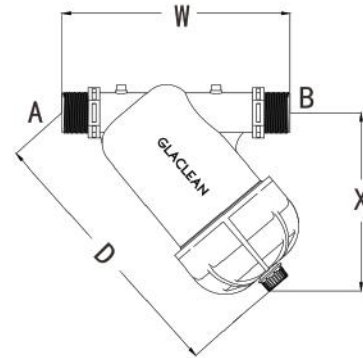
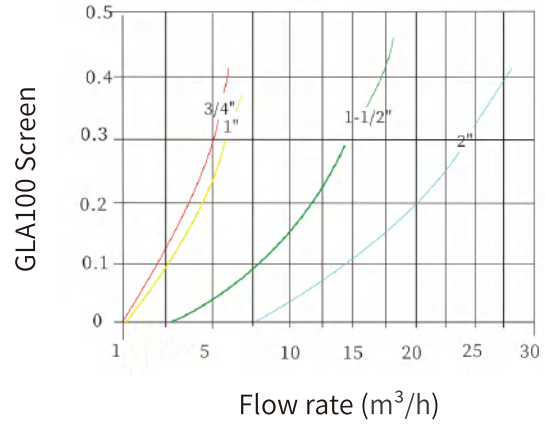
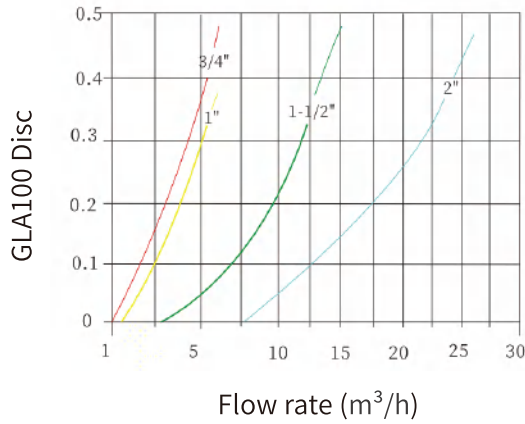
### Filterelement Material

Disc:PP

Screen:S.S.304



## Head Loss (Kg/cm<sup>2</sup>)-130 μm/120mesh:

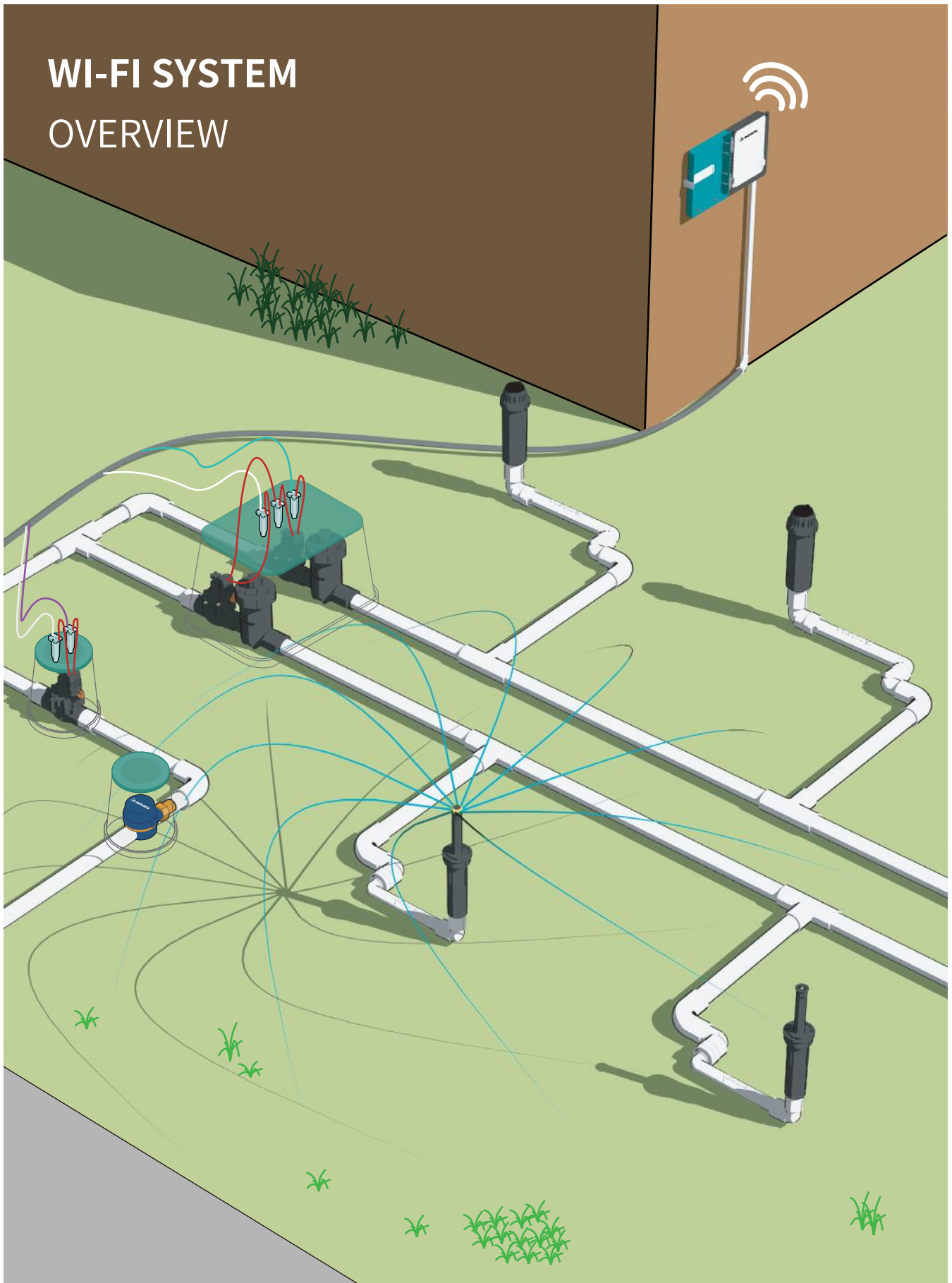


ITEM NO.	Connection	SIZE			Weight(g)	Max Flow Rate (m <sup>3</sup> /h)		Filtration surface (cm <sup>2</sup> )	
		W	X	D		DISC	Screen	DISC	Screen
G100D20NB130	3/4" BSP	167	150	223	290	4		152	
G100D25NB130	1" BSP	167	150	223	295	5		152	
G100D40SB130	1-1/2" BSP	264	206	312	1160	12		206	
G100D50NB130	2" BSP	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

## WI-FI SYSTEM OVERVIEW



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 : <https://www.inovato-zm.com>