AgRotor 3000 Flow Sensor Manual

GF/6-3000.090-SI Rev. C 01/09

WARNING! **SAFETY INSTRUCTIONS**

1. Depressurize and vent system prior to installation/removal.
2. Confirm chemical compatibility before use.
3. Do not exceed maximum temperature/pressure specifications.
4. Wear safety goggles or faceshield during installation/service.
5. Do not alter product construction.

1. Description of AgRotor Flow Sensor

The Senninger Ag-Rotor Flow Sensor offers a reliable, accurate means for measuring water flow in irrigation piping systems. An electromagnetic signal is transmitted from the rotor tip directly to the pick-up within the sensor.

- No recalibration required after routine maintenance
- Can be mounted at any angle for versatile installation
- Innovative rotor design, one moving part, snap-on rotor replacement (no special tools required)
- Mates with the Flo-Wise SC Totalizer to provide a Self-Contained irrigation water monitoring system.

2. Specifications

General

• **Operating Velocity Range:**	**Minimum 1 ft/s**	**Maximum 20 ft/s**
Min-Max rate per pipe size	6 in. Minimum 88 gpm	Maximum 1,761 gpm
	8 in. Minimum157 gpm	Maximum 3,132 gpm
	10 in. Minimum 245 gpm	Maximum 4,893 gpm
	12 in. Minimum 352 gpm	Maximum 7,046 gpm

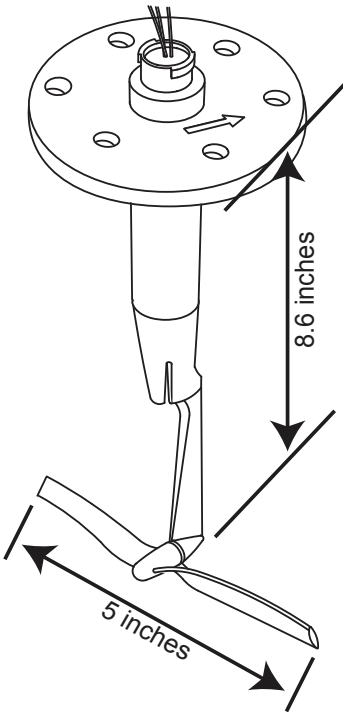
• Repeatability:	±0.5% of max range
Accuracy:	±2% of reading (under reference conditions)
• Pipe Size Range:	6, 8, 10, and 12 in.
• Cable Length:	25 ft. included; may be extended to 100 ft. max.
• Cable Type:	2-conductor shielded twisted pair, 14-22 AWG
• Rotor Diameter:	5 in.

Wetted Materials:

• Sensor Body:	PC/PBT Alloy
• Rotor (propeller) Assembly:	PC/PBT Alloy and Acetal
• Sensor Flange:	A-36 cold roll steel with galvanized coating
• Sensor Gasket:	Poron Cellular Urethane
• Rotor Bearing and Shaft:	Ceramic
• Rotor Face Seal:	316 SS

Electrical:

• Supply Voltage:	3.5 to 27 VDC
• Supply Current:	<20 µA with sensor powered with 3.5-5 VDC
	<3 mA with sensor powered with 5-27 VDC
• Signal Output:	Open collector transistor, sinking
	Max. pull-up voltage 27 VDC (transistor normally off)
• Max. Open-Collector Current Out:	20 mA
• Output Pulse Width:	3 ms nominal



Fluid Conditions:

Agriculture Sensor Maximum Pressure/Temperature Ratings:

- 150 psi max @ 68°F
- 32 psi max @ 140°F

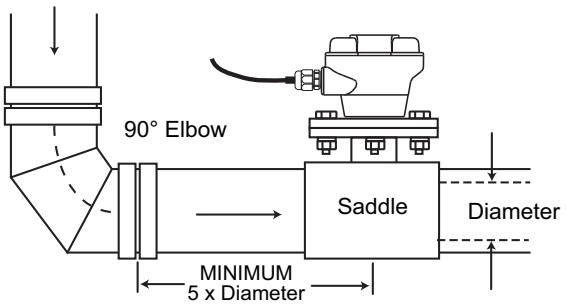
Quality Standards:

- Conforms with EN55082-1

3. Installation

3.1 Location

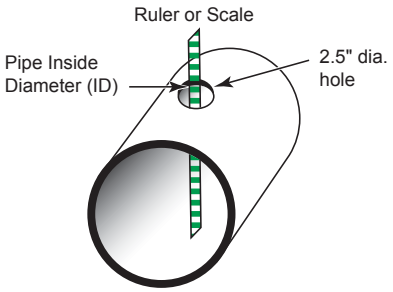
- Select a location where the pipe will always be full.
- **The pipe must be straight and uninterrupted for at least ten pipe diameters before the sensor. Five diameters are acceptable ONLY after a simple 90 degree elbow.**



3.2 Saddle Installation

1. Drill a 2.5 inch hole in the pipe. Deburr the cut edges to prevent damage to the saddle gasket.
2. Measure and record the inside diameter (ID) of the pipe as illustrated. This will be used later to determine the K-factor for system calibration.
3. Place the flanged fitting half of the strap-on saddle over the hole. Ensure that the alignment hole on the upper saddle flange is pointing **downstream**.
4. Place the lower half of saddle onto pipe and tighten the bolts to no more than 65 foot-pounds.

NOTE: Installation fittings may be fabricated using the dimensional drawings below. The flange height is critical to the accuracy of the measurement!

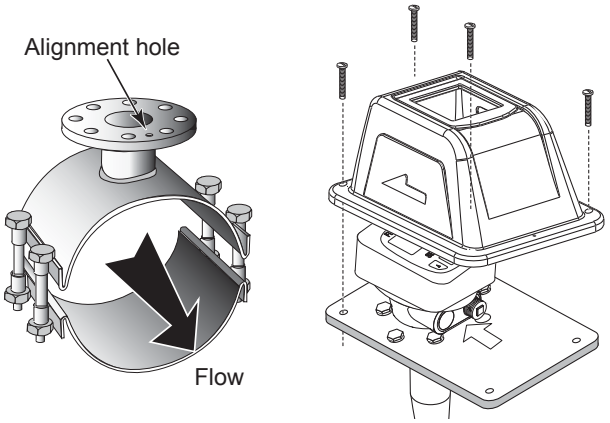


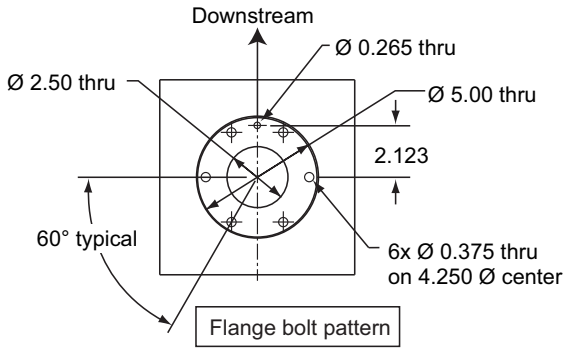
Inside Diameter:

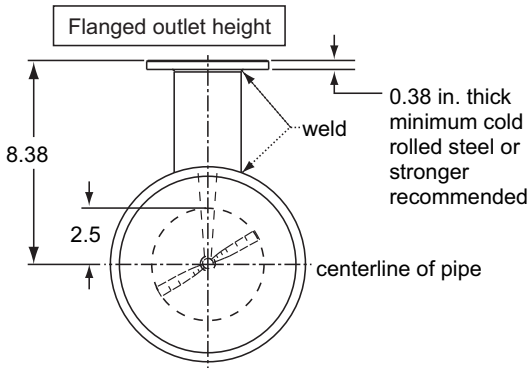
_____ in.

3.3 Sensor Installation

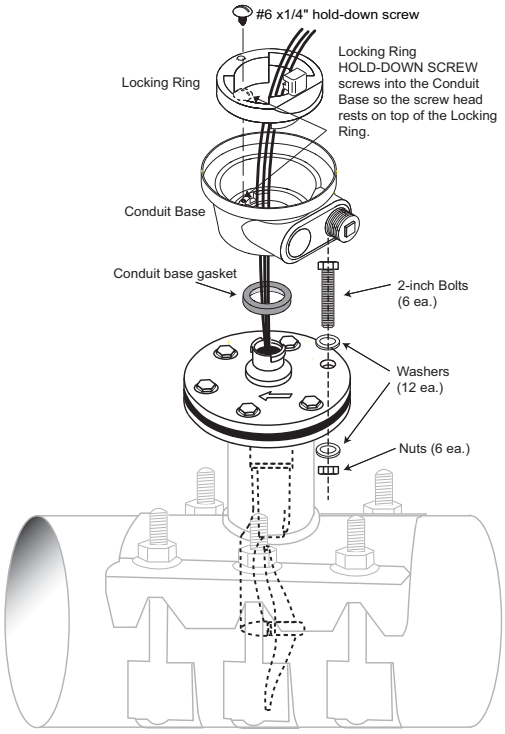
1. Install sensor into pipe with alignment pin downstream.
2. **Place the base plate for the outer cover over the sensor f ange.**
2. Bolt the assembly securely with the hardware provided.
3. Install the conduit base gasket onto the top of the sensor.
4. Position the conduit base over the top of the sensor and thread the sensor wires through the conduit base.
5. Press the conduit base down on the top of the sensor tube aligning the cutout keys and press down until it seats.
6. Turn the conduit base ¼-turn clockwise to secure it to the sensor.
   Note: The conduit base can be aligned in four directions.
7. Thread sensor wires through the locking ring. Insert locking ring into the conduit base, aligning it so that the square tab is close to the wire ports.







All dimensions in inches

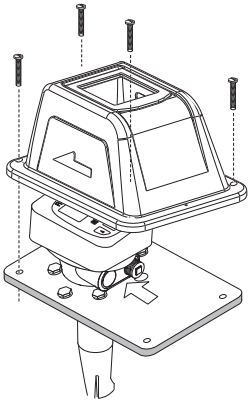


4. Connecting the Instrument

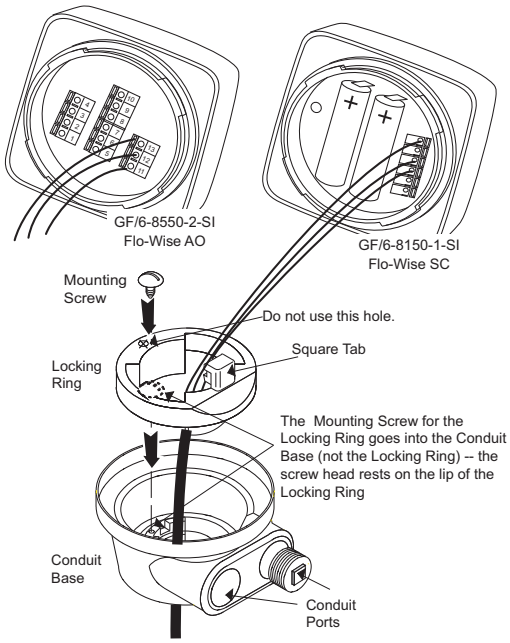
Mounting with Integral Instrument

No additional hardware is required to mount the Flo-Wise SC or the Flo-Wise AO directly onto the Flo-Wise AgRotor.

Cut the excess cable on the AgRotor sensor and connect directly to the terminals of the instrument.



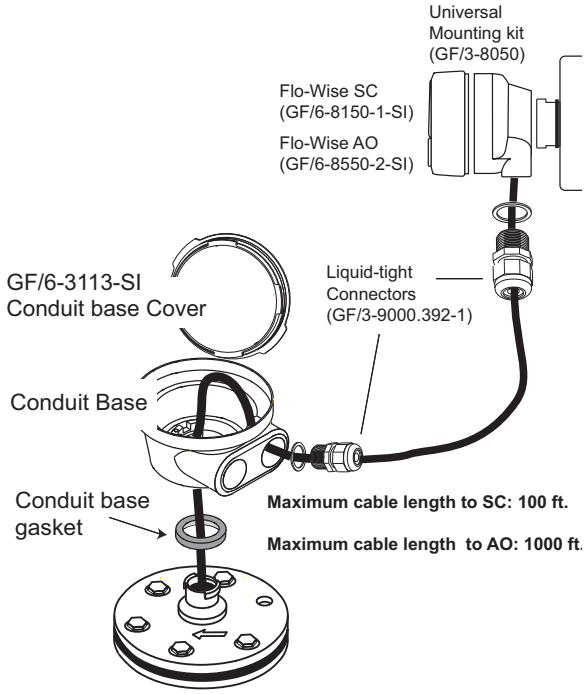
The white outer cover protects the Flo-Wise instrument from the elements. More detailed assembly instructions are provided with the cover.

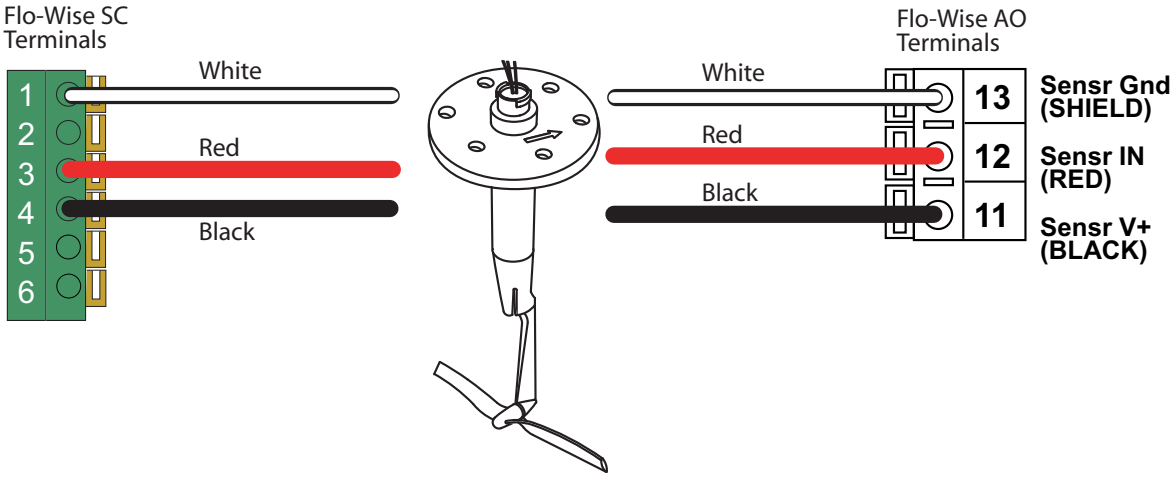


Mounting with Remote Instrument

The conduit base cover and Universal Mounting kit must be ordered separately to connect the AgRotor to a remote instrument.

- The AgRotor includes 25 ft. of cable that may be extended if necessary to a maximum of 100 ft. to the Flo-Wise SC.
- The cable can be extended to 1000 ft. if the AgRotor sensor is connected to the Flo-Wise AO.





5. K-Factors

K-factors are calibration constants, defined as the number of pulses generated by the rotor for each measure (gallon, acre-inch, etc.) of water that passes by the sensor. The following tables provide the K-factor for pipe sizes from 5.5 in. diameter to 12.6 inches diameter.

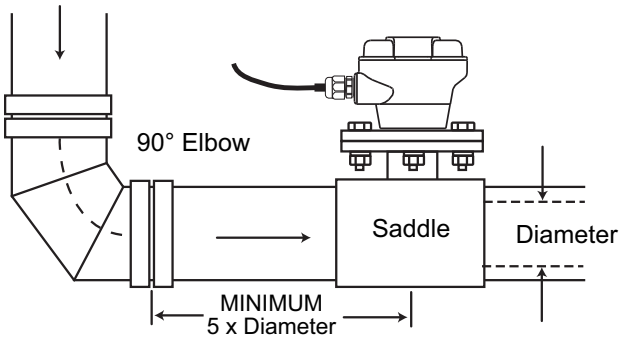
After selecting the value that matches the installation, it must be entered into the program of the Senninger Flo-Wise instrument. This information enables the instrument to correctly interpret the pulses coming from the AgRotor to display the flow rate and total flow volume.
The instruction manuals supplied with the Senninger Flo-Wise SC Totalizer and the Senninger Flo-Wise AO Flow Transmitter include complete information for using the K-factor.

How to Select Your K-Factor

1. Locate the column in the following tables that represents the inside diameter (ID) of your pipe.
2. Measure the distance (in inches) from the nearest elbow upstream of the sensor.
3. Find where the **ID** column and **Distance From Elbow** row intersect. This is your K-Factor setting.

If a valve, tee or pump is located immediately upstream of the sensor, the minimum distance is 10 x Diameter.

Always provide as much straight run as possible for best performance.



K-Factors for Sensor in 6 inch Pipe Downstream from a 90 degree elbow (mitered or smooth)

Pipe ID	5.5	5.6	5.7	5.8	5.9	6	6.065	6.1	6.2	6.3	6.4	6.5
distance from elbow (inches)	K factors (pulses per US gallon)						Sched 40					
30	3.135	3.045	2.955	2.865	2.775	2.685	2.627	2.595	2.505	2.415	2.326	2.236
40	3.210	3.118	3.026	2.934	2.841	2.749	2.689	2.657	2.564	2.472	2.380	2.288
50	3.272	3.178	3.084	2.990	2.896	2.802	2.740	2.707	2.613	2.519	2.425	2.331
60	3.321	3.226	3.130	3.035	2.940	2.844	2.782	2.749	2.654	2.558	2.463	2.367
70	3.361	3.264	3.168	3.072	2.975	2.879	2.816	2.783	2.686	2.590	2.494	2.398
80	3.392	3.295	3.198	3.101	3.004	2.907	2.844	2.810	2.713	2.616	2.519	2.422
90	3.416	3.319	3.221	3.124	3.027	2.929	2.866	2.832	2.735	2.637	2.540	2.443
100	3.435	3.337	3.240	3.142	3.045	2.947	2.884	2.849	2.752	2.654	2.557	2.459
110	3.449	3.352	3.254	3.156	3.059	2.961	2.897	2.863	2.766	2.668	2.570	2.472
120	3.461	3.363	3.265	3.167	3.070	2.972	2.908	2.874	2.776	2.679	2.581	2.483
130	3.469	3.371	3.274	3.176	3.078	2.980	2.917	2.883	2.785	2.687	2.589	2.492
140	3.476	3.378	3.280	3.182	3.085	2.987	2.923	2.889	2.791	2.694	2.596	2.498
150	3.481	3.383	3.285	3.188	3.090	2.992	2.929	2.894	2.797	2.699	2.601	2.504
160	3.485	3.387	3.289	3.192	3.094	2.996	2.933	2.899	2.801	2.703	2.606	2.508
170	3.489	3.391	3.293	3.195	3.098	3.000	2.936	2.902	2.804	2.707	2.609	2.511
180	3.492	3.395	3.297	3.199	3.101	3.003	2.940	2.905	2.808	2.710	2.612	2.514
190	3.496	3.398	3.300	3.202	3.104	3.006	2.943	2.908	2.810	2.712	2.614	2.516
200	3.502	3.403	3.305	3.207	3.108	3.010	2.946	2.912	2.813	2.715	2.617	2.518
210	3.508	3.409	3.310	3.212	3.113	3.014	2.950	2.915	2.817	2.718	2.619	2.521
220	3.508	3.409	3.310	3.212	3.113	3.014	2.950	2.915	2.817	2.718	2.619	2.521
230	3.508	3.409	3.310	3.212	3.113	3.014	2.950	2.915	2.817	2.718	2.619	2.521
240	3.508	3.409	3.310	3.212	3.113	3.014	2.950	2.915	2.817	2.718	2.619	2.521

To convert from Pulses per Gallon To:

Pulses per Liter	Divide the chart value by 3.785
Pulses per Acre-Inch	Multiply the chart value by 27154
Pulses per Cubic Meter (Metric Tonne)	Multiply the chart value by 264.2

K-Factors for Sensor in 8 inch Pipe Downstream from a 90 degree elbow (mitered or smooth)

ID(in)	7.5	7.6	7.7	7.8	7.9	7.961	8	8.1	8.2	8.3	8.4	8.5
distance from elbow (inches)	K factors (pulses per US gallon)					Sched 40						
40	1.745	1.704	1.664	1.623	1.583	1.558	1.542	1.501	1.461	1.420	1.379	1.339
50	1.777	1.735	1.694	1.652	1.611	1.586	1.570	1.528	1.487	1.445	1.404	1.362
60	1.804	1.762	1.720	1.678	1.636	1.610	1.593	1.551	1.509	1.467	1.425	1.383
70	1.827	1.784	1.742	1.699	1.657	1.631	1.614	1.571	1.529	1.486	1.443	1.401
80	1.847	1.804	1.761	1.718	1.675	1.648	1.632	1.588	1.545	1.502	1.459	1.416
90	1.863	1.820	1.777	1.733	1.690	1.663	1.647	1.603	1.560	1.517	1.473	1.430
100	1.877	1.834	1.790	1.747	1.703	1.676	1.659	1.616	1.572	1.529	1.485	1.441
110	1.889	1.845	1.801	1.758	1.714	1.687	1.670	1.626	1.583	1.539	1.495	1.451
120	1.899	1.855	1.811	1.767	1.723	1.696	1.679	1.635	1.592	1.548	1.504	1.460
130	1.907	1.863	1.819	1.775	1.731	1.704	1.687	1.643	1.599	1.555	1.511	1.467
140	1.913	1.869	1.825	1.781	1.737	1.711	1.693	1.649	1.605	1.561	1.517	1.473
150	1.919	1.875	1.831	1.787	1.743	1.716	1.699	1.655	1.611	1.567	1.523	1.479
160	1.923	1.879	1.835	1.791	1.747	1.720	1.703	1.659	1.615	1.571	1.527	1.483
170	1.927	1.883	1.839	1.795	1.751	1.724	1.707	1.663	1.619	1.575	1.531	1.487
180	1.930	1.886	1.842	1.798	1.754	1.727	1.710	1.666	1.622	1.578	1.534	1.490
190	1.932	1.888	1.844	1.800	1.756	1.730	1.712	1.668	1.624	1.580	1.536	1.492
200	1.935	1.891	1.847	1.803	1.759	1.732	1.715	1.671	1.627	1.583	1.539	1.495
210	1.936	1.892	1.848	1.804	1.760	1.734	1.716	1.672	1.628	1.584	1.540	1.496
220	1.938	1.894	1.850	1.806	1.762	1.735	1.718	1.674	1.630	1.586	1.542	1.498
230	1.940	1.896	1.852	1.808	1.763	1.737	1.719	1.675	1.631	1.587	1.543	1.499
240	1.941	1.897	1.853	1.809	1.765	1.738	1.721	1.677	1.633	1.589	1.545	1.500
250	1.943	1.899	1.855	1.810	1.766	1.739	1.722	1.678	1.634	1.590	1.546	1.502
260	1.945	1.901	1.856	1.812	1.768	1.741	1.724	1.679	1.635	1.591	1.547	1.502
270	1.947	1.903	1.858	1.814	1.770	1.743	1.725	1.681	1.636	1.592	1.548	1.503
280	1.950	1.905	1.861	1.816	1.772	1.744	1.727	1.683	1.638	1.593	1.549	1.504
290	1.953	1.908	1.864	1.819	1.774	1.747	1.729	1.684	1.640	1.595	1.550	1.505
300	1.957	1.912	1.867	1.822	1.777	1.749	1.732	1.687	1.642	1.597	1.552	1.507

K-Factors for Sensor in 10 inch Pipe Downstream from a 90 degree elbow (mitered or smooth)

ID(in)	9.5	9.6	9.7	9.8	9.9	10.02	10.1	10.2	10.3	10.4	10.5	11
distance from elbow (inches)	K factors (pulses per US gallon)					Sched 40						
50	1.088	1.067	1.047	1.026	1.005	0.981	0.964	0.944	0.923	0.903	0.882	0.779
60	1.109	1.088	1.067	1.046	1.025	1.000	0.983	0.962	0.941	0.920	0.899	0.794
70	1.128	1.107	1.085	1.064	1.042	1.017	1.000	0.978	0.957	0.935	0.914	0.807
80	1.145	1.123	1.101	1.079	1.058	1.032	1.014	0.993	0.971	0.949	0.927	0.819
90	1.159	1.137	1.115	1.093	1.071	1.045	1.027	1.005	0.983	0.961	0.940	0.830
100	1.172	1.150	1.128	1.106	1.083	1.057	1.039	1.017	0.995	0.972	0.950	0.839
110	1.184	1.161	1.139	1.117	1.094	1.067	1.049	1.027	1.005	0.982	0.960	0.848
120	1.194	1.171	1.149	1.126	1.104	1.077	1.059	1.036	1.014	0.991	0.968	0.856
130	1.203	1.180	1.157	1.135	1.112	1.085	1.067	1.044	1.021	0.999	0.976	0.863
140	1.211	1.188	1.165	1.142	1.120	1.092	1.074	1.051	1.028	1.006	0.983	0.869
150	1.217	1.195	1.172	1.149	1.126	1.099	1.080	1.058	1.035	1.012	0.989	0.875
160	1.224	1.201	1.178	1.155	1.132	1.104	1.086	1.063	1.040	1.017	0.995	0.880
170	1.229	1.206	1.183	1.160	1.137	1.110	1.091	1.068	1.045	1.022	0.999	0.885
180	1.234	1.211	1.188	1.165	1.142	1.114	1.096	1.073	1.050	1.027	1.004	0.889
190	1.238	1.215	1.192	1.169	1.146	1.118	1.100	1.077	1.054	1.031	1.008	0.893
200	1.241	1.218	1.195	1.172	1.149	1.122	1.103	1.080	1.057	1.034	1.011	0.896
210	1.244	1.221	1.198	1.175	1.152	1.125	1.106	1.083	1.060	1.037	1.014	0.899
220	1.247	1.224	1.201	1.178	1.155	1.127	1.109	1.086	1.063	1.040	1.017	0.902
230	1.249	1.226	1.203	1.180	1.157	1.130	1.111	1.088	1.065	1.042	1.019	0.904
240	1.251	1.228	1.205	1.182	1.159	1.131	1.113	1.090	1.067	1.044	1.021	0.906
250	1.252	1.229	1.206	1.184	1.161	1.133	1.115	1.092	1.069	1.046	1.023	0.908
260	1.254	1.231	1.208	1.185	1.162	1.134	1.116	1.093	1.070	1.047	1.024	0.909
270	1.254	1.232	1.209	1.186	1.163	1.135	1.117	1.094	1.071	1.048	1.025	0.911
280	1.255	1.232	1.209	1.186	1.164	1.136	1.118	1.095	1.072	1.049	1.026	0.912
290	1.256	1.233	1.210	1.187	1.164	1.137	1.119	1.096	1.073	1.050	1.027	0.913
300	1.256	1.233	1.210	1.188	1.165	1.137	1.119	1.096	1.073	1.051	1.028	0.913
310	1.257	1.234	1.211	1.188	1.165	1.138	1.120	1.097	1.074	1.051	1.028	0.914
320	1.257	1.234	1.212	1.189	1.166	1.138	1.120	1.097	1.074	1.051	1.028	0.914

K-Factors for Sensor in 12 inch Pipe Downstream from a 90 degree elbow (mitered or smooth)

ID(in)	11.5	11.6	11.7	11.8	11.9	12	12.1	12.2	12.3	12.4	12.5	12.6
distance from elbow (inches)	K factors (pulses per US gallon)					Sched 40						
60	0.791	0.778	0.765	0.753	0.740	0.727	0.714	0.702	0.689	0.676	0.663	0.651
70	0.803	0.790	0.777	0.764	0.751	0.738	0.725	0.712	0.699	0.686	0.673	0.660
80	0.814	0.801	0.788	0.775	0.762	0.748	0.735	0.722	0.709	0.696	0.683	0.669
90	0.824	0.811	0.797	0.784	0.771	0.758	0.744	0.731	0.718	0.704	0.691	0.678
100	0.833	0.820	0.806	0.793	0.779	0.766	0.752	0.739	0.725	0.712	0.699	0.685
110	0.841	0.828	0.814	0.800	0.787	0.773	0.760	0.746	0.733	0.719	0.705	0.692
120	0.849	0.835	0.821	0.807	0.794	0.780	0.766	0.753	0.739	0.725	0.712	0.698
130	0.855	0.841	0.828	0.814	0.800	0.786	0.772	0.759	0.745	0.731	0.717	0.704
140	0.861	0.847	0.833	0.820	0.806	0.792	0.778	0.764	0.750	0.736	0.723	0.709
150	0.866	0.853	0.839	0.825	0.811	0.797	0.783	0.769	0.755	0.741	0.727	0.713
160	0.871	0.857	0.843	0.829	0.815	0.801	0.787	0.774	0.760	0.746	0.732	0.718
170	0.876	0.862	0.848	0.834	0.820	0.806	0.792	0.778	0.764	0.750	0.736	0.722
180	0.880	0.866	0.851	0.837	0.823	0.809	0.795	0.781	0.767	0.753	0.739	0.725
190	0.883	0.869	0.855	0.841	0.827	0.813	0.799	0.785	0.770	0.756	0.742	0.728
200	0.886	0.872	0.858	0.844	0.830	0.816	0.802	0.788	0.773	0.759	0.745	0.731
210	0.889	0.875	0.861	0.847	0.833	0.819	0.804	0.790	0.776	0.762	0.748	0.734
220	0.892	0.878	0.863	0.849	0.835	0.821	0.807	0.793	0.779	0.764	0.750	0.736
230	0.894	0.880	0.866	0.852	0.837	0.823	0.809	0.795	0.781	0.767	0.753	0.738
240	0.896	0.882	0.868	0.854	0.839	0.825	0.811	0.797	0.783	0.769	0.754	0.740
250	0.898	0.884	0.869	0.855	0.841	0.827	0.813	0.799	0.785	0.770	0.756	0.742
260	0.899	0.885	0.871	0.857	0.843	0.829	0.814	0.800	0.786	0.772	0.758	0.744
270	0.901	0.887	0.872	0.858	0.844	0.830	0.816	0.802	0.788	0.773	0.759	0.745
280	0.902	0.888	0.874	0.859	0.845	0.831	0.817	0.803	0.789	0.775	0.761	0.746
290	0.903	0.889	0.875	0.860	0.846	0.832	0.818	0.804	0.790	0.776	0.762	0.748
300	0.904	0.890	0.875	0.861	0.847	0.833	0.819	0.805	0.791	0.777	0.763	0.749
310	0.904	0.890	0.876	0.862	0.848	0.834	0.820	0.806	0.792	0.778	0.763	0.749
320	0.905	0.891	0.877	0.863	0.849	0.835	0.820	0.806	0.792	0.778	0.764	0.750
330	0.905	0.891	0.877	0.863	0.849	0.835	0.821	0.807	0.793	0.779	0.765	0.751
340	0.906	0.892	0.878	0.864	0.850	0.835	0.821	0.807	0.793	0.779	0.765	0.751
350	0.906	0.892	0.878	0.864	0.850	0.836	0.822	0.808	0.794	0.780	0.766	0.752
360	0.906	0.892	0.878	0.864	0.850	0.836	0.822	0.808	0.794	0.780	0.766	0.752
370	0.907	0.893	0.878	0.864	0.850	0.836	0.822	0.808	0.794	0.780	0.766	0.752
380	0.907	0.893	0.879	0.865	0.851	0.837	0.823	0.809	0.795	0.781	0.766	0.752
390	0.907	0.893	0.879	0.865	0.851	0.837	0.823	0.809	0.795	0.781	0.767	0.753
400	0.908	0.894	0.880	0.866	0.851	0.837	0.823	0.809	0.795	0.781	0.767	0.753
410	0.909	0.895	0.880	0.866	0.852	0.838	0.824	0.810	0.795	0.781	0.767	0.753
420	0.910	0.895	0.881	0.867	0.853	0.839	0.824	0.810	0.796	0.782	0.767	0.753

To convert the K-factor from Pulses per Gallon To:

Pulses per Liter	Divide the chart value by 3.785
Pulses per Acre-Inch	Multiply the chart value by 27154
Pulses per Cubic Meter (Metric Tonne)	Multiply the chart value by 264.2

6. Maintenance and Repair

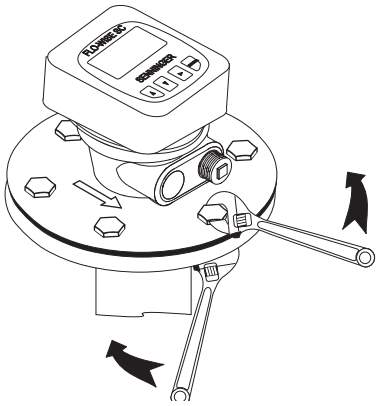
At least once a season, remove the flow sensor to check for wear. High flow rates, debris and dirty water increase wear and require more frequent inspection.

WARNING!

Depressurize and vent system prior to prior to performing the following procedure.

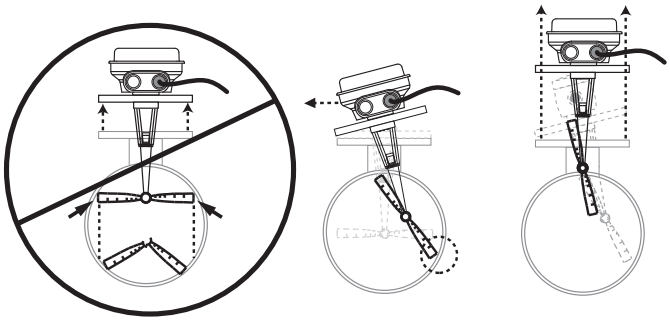
6.1 Sensor Removal

1. Turn off pump.
2. Turn off relief valve and drain the pipe.
3. Loosen and remove bolts, nuts and washers securing sensor to the installation fitting.



4. Lift and tilt the sensor slightly until you feel the rotor blade contact the inner pipe wall.
5. Gently lift and tilt sensor to align rotor blade for removal.

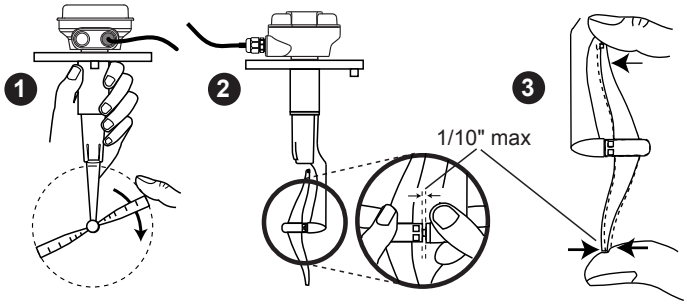
CAUTION: DO NOT FORCE! If resistance is felt while lifting sensor, repeat sequence until sensor can be removed without damaging it.



Note: If necessary, use a wire or stick to help reposition the rotor for removal.

6.2 Rotor Inspection

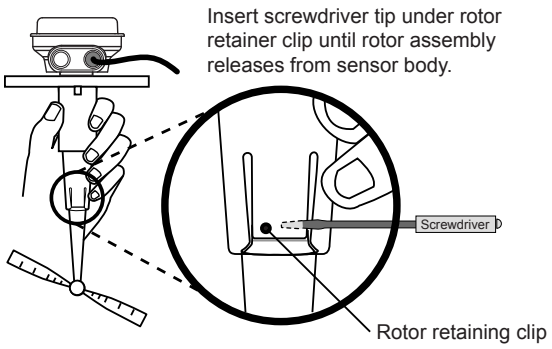
1. **Rotor Rotation:** Flick the rotor to check that it is "free spinning" and not bound or slow in rotating. If bearing binds, replace rotor assembly (P/N GF/6-3000.390-SI).



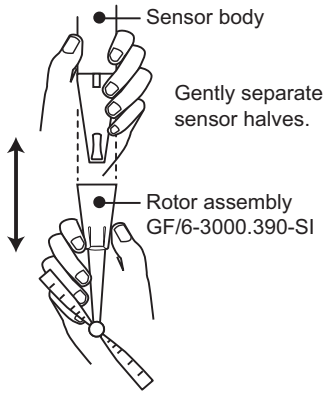
2. **Bearing Gap:** Grasp rotor and shaft and gently try to pull them apart. If there is a gap of more than 0.10-inch, replace rotor kit (P/N GF/6-3000.390-SI).
3. **Wobble:** Wobble rotor blade from side-to-side. If blade wobbles more than 0.10-inch, replace rotor kit (P/N GF/6-3000.090-SI).

6.3 Rotor Replacement

1. Insert a small screwdriver or coin under **rotor retaining clip** to release the rotor assembly from sensor body.



2. Gently separate halves. DO NOT overextend the rotor assembly retaining clip or it will break.

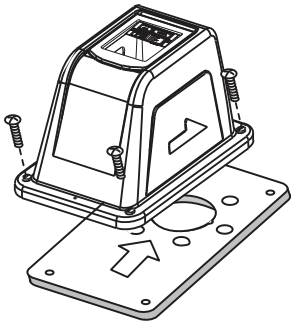


3. Reinstall sensor rotor asembly in reverse order. Assembly is keyed for proper orientation. When properly seated on the sensor body the retainer clip will "click" into position.

7. Ordering Information for Senninger Flo-Wise SC AgRotor System

Order three parts for a complete Flo-Wise SC AgRotor system:

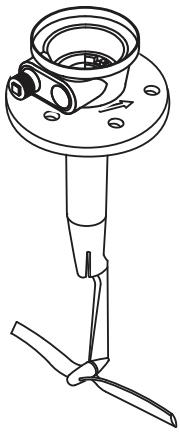
1.



GF/6-3100-SI
Flo-Wise SC Totalizer
with Outer Cover Assembly

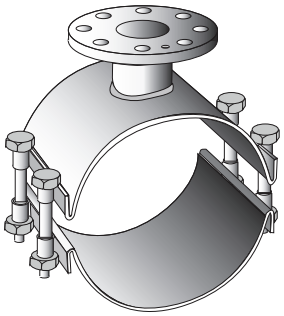
Flow-Wise SC is a battery powered instrument that provides flow rate and total flow information. It mates with the Flo-Wise AgRotor flow sensor for a completely self-contained irrigation monitoring system.

2.



GF/6-3000-5-SI
Flo-Wise AgRotor Sensor
(Minimum pipe size 6 inches)

3.



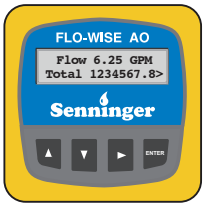
Strap-on Saddle w/flange
(Weld-on flanges also available.
Call Senninger for other installation options.)

JC/410PG-0663X16IP 6 inch saddle, epoxy
JC/410PG-0863X16 8 inch saddle, epoxy
JC/410PG-1075X16IP 10 inch saddle, epoxy
JC/410PG-1275X16IP 12 inch saddle, epoxy

Optional

Flo-Wise AO mates with the Flo-Wise AgRotor sensor for applications requiring more than basic monitoring capability.
It is a 24 VDC instrument that provides flow rate and total flow, plus two output functions:

- 4-20 mA loop for chart recorders and datalogging systems
- Two dry-contact relays for alarm or control functions.



GF/6-8550-2-SI
Flo-Wise AO
Transmitter

Spare Parts and Accessories

Part No.	Description
GF/6-3000.390-SI	Replacement rotor assembly, AgRotor
GF/6-3113-SI	Conduit base Cover