



801 & 802



801



802

801 & 802 FLOW METERS

FOR AUTOMATIC SPRAYER CONTROLS

The 801 & 802 flow meters use a turbine style design for reliable and accurate flow measurement for use with automatic sprayer control systems. Rapid Check flow meter insert design allows for fast, easy disassembly for inspection and cleaning while the ¼-turn sensor can also be easily removed without exposure to the spray solution. Diagnostic LEDs provide easy troubleshooting in the field. These flow meters are compatible with both TeeJet and third-party rate control systems with operating voltages of 4.5 to 16 Volts DC. The 801 features 50-series flange connections and 802 features 75-series flange connections for compatibility with a wide range of threaded, hose barb and flange fittings. Both flow meters also provide precise measurement across wide flow rate ranges for a wide range of sprayer application rates and boom sizes.

801 & 802 Flow Meter Features

- Flanged connections provide threadless, leak-proof design and maximum plumbing versatility
- Turbine style design for optimal accuracy
- Easily removable Rapid Check turbine for fast cleanup and service
- Durable ruby bearings for long wear life
- Wetted materials: polypropylene, stainless steel and Viton[®]
- LED operating status light

801 Flow Meter Features

- Flow range of 2-45 GPM (7.5-170 LPM)
- 300 PSI (20 bar) max pressure
- 50-series flange connection

802 Flow Meter Features

- Flow range of 3-130 GPM (11-492 l/min)
- 200 PSI (14 bar) max pressure
- 75-series flange connection

TECHNICAL SPECIFICATIONS

MEASURING

Measuring Data	801 Flow Meter	802 Flow Meter
Linearity at recommended flow range	+/- 3.0%	
Flow Range	2-45 GPM (7.5-170 LPM) (3-30 GPM recommended for max life)	3-130 GPM (10-495 LPM) (5-110 GPM recommended for max life)
Maximum Working Pressure	300 PSI (20.7 bar)	200 PSI (14 bar)
Pressure Drop	10 GPM (37.85 LPM) - NA 20 GPM (75.71 LPM) - 3 PSI (0.21 bar) 30 GPM (113.56 LPM) - 7.5 PSI (0.52 bar) 40 GPM (151.42 LPM) - 12.5 PSI (0.86 bar) 45 GPM (170 LPM) - 14.5 PSI (1 bar)	30 GPM (113.56 LPM) - NA 60 GPM (227.12 LPM) - 1 PSI (0.07 bar) 100 GPM (378.54 LPM) - 3 PSI (0.21 bar) 130 GPM (492.10 LPM) - 5 PSI (0.34 bar)

Measuring range is partly dependent on the selected type and size of connectors.

The flow meter is bidirectional for mounting purposes.

ELECTRICAL

Electrical Data	801 Flow Meter	802 Flow Meter
Sensor	Open collector NPN 50% square wave 10-300 Hz in operating range	
Operating Voltage	+4.5 - 16VDC	
Calibration Number (Approximate)	TeeJet Controller - 82 pulses/liter Mid-Tech Controller - 310 pulses/gallon	TeeJet Controller - 21 pulses/liter Mid-Tech Controller - 79 pulses/gallon Raven Controller - 210 pulses/10 liter Raven Controller - 790 pulses/10 gallons
LED Indicators	Green-Power Orange-Signal	

MATERIALS

Measuring Data	801 & 802 Flow Meters
Body & Insert	30% glass filled polypropylene
Shaft	410 hardened stainless steel
Turbine & Bearing Support	20% talc filled polypropylene
Bearing	Sapphire
Bearing Housing	303 stainless steel

CONNECTOR

Deutsch 3 Pos/Skts

Pin Out	Color	Function
A	Red	+4.5V to 16V
B	White	Signal
C	Black	Ground

CONNECTOR

Conxall (Raven)

Pin Out	Color	Function
1	Black	Ground
2	White	Signal
3	Red	+ 5V

HOW TO ORDER

Part Number	Description
90-50231	Kit, 801 Flow Meter, 3/4" Hose Barb
90-02175	Kit, 801 Flow Meter & Mid-Tech Interface, 3/4" Hose Barbs
90-50230	Kit, 801 Flow Meter, 1" Hose Barbs
90-02176	Kit, 801 Flow Meter & Mid-Tech Interface, 1" Hose Barbs
90-50232	Kit, 801 Flow Meter, 1 1/4" Hose Barb
90-02177	Kit, 801 Flow Meter, & Mid-Tech Interface, 1 1/4" Hose Barbs
90-50233	Kit, 801 Flow Meter, 1 1/4" NPT (F)
90-02178	Kit, 801 Flow Meter & Mid-Tech Interface, 1 1/4" NPT (F)
57-10122	802 Flow Meter, TeeJet Assembly, No Hose Barbs
57-10125	802 Flow Meter, Raven Connector, No Hose Barbs
45-05315	Cable, Adapter, 801/802 Flow Meter, Mid-Tech Interface

