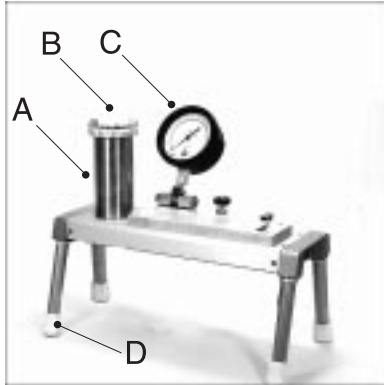
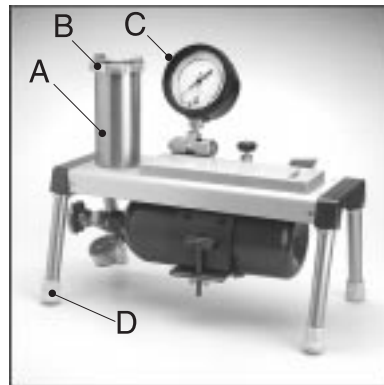


PLANT WATER STATUS CONSOLE



*3000, Plant Water Status Console
Consumer Configurable:*

- A - Specify the Pressure Vessel Size*
- B - Specify the Specimen Holder Type*
- C - Specify the Pressure Range*
- D - Specify the Leg Length*



*3005, Plant Water Status Console
Consumer Configurable:*

- A - Specify the Pressure Vessel Size*
- B - Specify the Specimen Holder Type*
- C - Specify the Pressure Range*
- D - Specify the Leg Length*

The 3000 Series Plant Water Status Console provides a means of quickly and accurately measuring the water status of plant leaves. A leaf or small branch is placed in the sample chamber with the cut end protruding from the specimen holder. Pressure is built up inside the chamber until the pressure exceeds the tension inside the plant material, and xylem sap begins to flow from the cut end. The tension can then be read directly from the pressure gauge.

Two standard Plant Water Status Consoles are available. The Model 3000 does not have its own pressure supply, and must be connected to an external pressure source, such as a compressed gas cylinder. The Model 3005 is supplied with a pressurized gas tank, making it suitable for portable, field use. A hardwood sample preparation board is mounted to the heavy-duty aluminum chassis.

Either console can be configured in a variety of ways. Sample chambers are available in several different lengths, ranging from 7" (18 cm) to 20" (51 cm). Two operating pressure ranges, 0 to 40 bars and 0 to 80 bars, are available. Two specimen holders are available, one for use with round-stem materials, and one for blade-type plant materials. A number of differently sized and shaped sealing sleeves and grommets assure that the plant material of interest is safely sealed in the specimen holder, allowing measurements to be made.

Standard Products

Both Plant Water Status Console Models are consumer configurable.

3000 PLANT WATER STATUS CONSOLE

Plant Water Status Console, without air supply. Must include 1 each of options A, B, C, and D. The most common configuration, 3000-1412, has a 7" high Pressure Vessel, 3015G4 Specimen Holder, 0 to 40 bar range, and set of 8" legs.

Product No.	Select Options
3000-1xxx	OPTION A: Pressure Vessel, 7" (18 cm) high
3000-2xxx	OPTION A: Pressure Vessel, 12" (30 cm) high
3000-3xxx	OPTION A: Pressure Vessel, 20" (51 cm) high
3000-x2xx	OPTION B: 3015G2 Specimen Holder
3000-x4xx	OPTION B: 3015G4 Specimen Holder
3000-xx1x	OPTION C: 0 to 40 bar range
3000-xx2x	OPTION C: 0 to 80 bar range
3000-xxx1	OPTION D: 4" (10 cm) Legs (set of 4)
3000-xxx2	OPTION D: 8" (20 cm) Legs (set of 4)
3000-xxx3	OPTION D: 32" (81 cm) Legs (set of 4)

3005 PLANT WATER STATUS CONSOLE

Plant Water Status Console, with air supply. Must include 1 each of options A, B, C, and D. The most common configuration, 3005-1412, has a 7" high Pressure Vessel, 3015G4 Specimen Holder, 0 to 40 bar range, and set of 8" legs.

Product No.	Select Options
3005-1xxx	OPTION A: Pressure Vessel, 7" (18 cm) high
3005-2xxx	OPTION A: Pressure Vessel, 12" (30 cm) high
3005-3xxx	OPTION A: Pressure Vessel, 20" (51 cm) high
3005-x2xx	OPTION B: 3015G2 Specimen Holder
3005-x4xx	OPTION B: 3015G4 Specimen Holder
3005-xx1x	OPTION C: 0 to 40 bar range
3005-xx2x	OPTION C: 0 to 80 bar range
3005-xxx2	OPTION D: 8" (20 cm) Legs (set of 4)
3005-xxx3	OPTION D: 32" (81 cm) Legs (set of 4)

Accessories

Product No.	Description	Weight
0767P2000G3	HIGH PRESSURE BOTTLE FILLING SYSTEM High-pressure regulator, dial gauges, and stainless steel hose used to refill compressed gas tank on 3005.	5.27 kgs
3000K1	CONVERSION KIT Converts 3000 to 3005	10.43 kgs
3000K2	CONVERSION KIT (before 1994) Converts 3000 & 3005 from 0 to 40 bars to 0 to 80 bars	1.06 kgs
3000K3	CONVERSION KIT, (1994 and later) Converts 3000 & 3005 from 0 to 40 bars to 0 to 80 bars	2.45 kgs
3010L07	PRESSURE VESSEL, 7" (18 cm) high	2.38 kgs
3010L12	PRESSURE VESSEL, 12" (30 cm) high	3.79 kgs
3010L20	PRESSURE VESSEL, 20" (51 cm) high	5.70 kgs
3070L60	FLEXIBLE HIGH-PRESSURE HOSE Stainless Steel, 60-inch length	0.72 kgs
3015G2	SPECIMEN HOLDER The Model 3015G2 is designed to accept blade-type leaves up to 1" (2.5 cm) in width. Comes with two sealing plugs with 1" long slots, 0.094" wide and 0.050" wide, and two support washers.	0.89 kgs
3017G2-005	SEALING PLUG, .094" wide slot, 1" long (1 each) Used only with the 3015G2	0.01 kgs
3017G2-006	SEALING PLUG, .050" wide slot, 1" long (1 each) Used only with the 3015G2	0.01 kgs
3015G4	SPECIMEN HOLDER This is a general purpose specimen holder which can be equipped to accept round petioles from 1/32" diameter to 1/2" diameter, and short petioles 3/8" long. It can also be used with blade-type leaves up to 1/2" wide, and on midvein of larger leaves. Comes with 1/16" I.D., 1/8" I.D., 3/16" I.D., 1/4" I.D., and blank sealing sleeves, and support washers with 1/4" diameter hole and 9/64" diameter hole.	0.96 kgs
3017G1-000K1	SEALING SLEEVE, 1/2" OD., no hole, (5 pack)	0.02 kgs
3017G1-001K1	SEALING SLEEVE 1/2" O.D. with 1/16" diameter hole, (5 pack)	0.02 kgs
3017G1-002K1	SEALING SLEEVE 1/2" O.D. with 1/8" diameter hole, (5 pack)	0.02 kgs
3017G1-003K1	SEALING SLEEVE 1/2" O.D. with 3/16" diameter hole, (5 pack)	0.02 kgs
3017G1-004K1	SEALING SLEEVE 1/2" O.D. with 1/4" diameter hole, (5 pack)	0.02 kgs
3017K1	SEALING SLEEVE KIT Comes with 1 each of 3017G1-000, 3017G1-001, 3017G1-002, 3017G1-003, 3017G1-004, 3019G4-011, 3020G4-001, 3020G4-006.	0.01 kgs
3019G4-011	SEALING GROMMET, 1/2" hole	0.004 kgs
3020G4-001	SUPPORT WASHER, 1/4" hole	0.004 kgs
3020G4-006	SUPPORT WASHER, 9/64" hole	0.004 kgs
3019G4-001K1	SEALING GROMMET, 1/16" diameter hole, (5 pack)	0.02 kgs
3019G4-002K1	SEALING GROMMET, 3/32" diameter hole, (5 pack)	0.02 kgs
3019G4-003K1	SEALING GROMMET, 1/8" diameter hole, (5 pack)	0.02 kgs
3019G4-004K1	SEALING GROMMET, 3/16" diameter hole (5 pack)	0.02 kgs
3019K1	GROMMET KIT, Round Holes Comes with 1 each of 3019G4-001, 3019G4-002, 3019G4-003, 3019G4-004, 3020G4-001, 3020G4-006.	0.01 kgs



3015G2, Specimen Holder



3015G4, Specimen Holder, shown complete with a sealing grommet, five sealing sleeves, and two support washers.

3019G4-005K1	SEALING GROMMET, 1/16" wide x 1/4" long ellipse (5 pack)	0.02 kgs
3019G4-006K1	SEALING GROMMET 1/8" wide x 1/2" long ellipse, (5 pack)	0.02 kgs
3019G4-007K1	SEALING GROMMET, 1/8" wide X 1/2" long arc, (5 pack)	0.02 kgs
3019G4-008K1	SEALING GROMMET, .050" wide x 1/2" long slot, (5 pack)	0.02 kgs
3019G4-009K1	SEALING GROMMET, Blank, (5 pack)	0.02 kgs
3019G4-010K1	SEALING GROMMET, 3/8" hole, (5 pack)	0.02 kgs
3019G4-011K1	SEALING GROMMET, 1/2" hole, (5 pack)	0.02 kgs
3019K1	GROMMET KIT Comes with 1 each of 3019G4-001, 3019G4-002, 3019G4-003, 3019G4-004, 3020G4-001, 3020G4-006.	0.01 kgs
3019K2	GROMMET KIT, Arc/Ellipse Comes with 1 each of 3019G4-005, 3015G4-006, 3019G4-007, 3019G4-008, 3020G4-002, 3020G4-003.	0.01 kgs
3020G4-001K1	SUPPORT WASHER, 1/4" hole (5 pack)	0.02 kgs
3020G4-002K1	SUPPORT WASHER, 1/16" wide x 1/2" long slot (5 pk)	0.02 kgs
3020G4-003K1	SUPPORT WASHER, 1/8" wide x 1/2" long slot (5 pk)	0.02 kgs
3020G4-004K1	SUPPORT WASHER, 3/8" hole (5 pack)	0.02 kgs
3020G4-005K1	SUPPORT WASHER, 1/2" hole (5 pack)	0.02 kgs
3020G4-006K1	SUPPORT WASHER, 9/64" hole (5 pack)	0.02 kgs
3020G4K1	SUPPORT WASHER KIT, for round holes (includes 1 each 3020G4-001, 3020G4-004, 3020G4-005, 3020G4-006)	0.01 kgs
3020G4K2	SUPPORT WASHER KIT, for slots (includes 1 each 3020G4-002 and 3020G4-003)	0.01 kgs

REPLACEMENT PARTS, PLANT WATER STATUS CONSOLE on page 50

REPLACEMENT PARTS PLANT WATER STATUS CONSOLES

3000 and 3005, Plant Water Status Consoles Replacement Parts

Product No.	Description	Weight
0761G5	THREE-WAY PRESSURE CONTROL BALL VALVE	0.34 kgs
0767P2000G1	TANK REGULATOR, 0 to 2000 psi range Replacement for 3005 Tank Regulator	1.36 kgs
0767P2000G2	SOURCE TANK REGULATOR, for 3000 Plant Water Status Console, high pressure	
0780P0600	TEST GAUGE, 0 to 600 psi, (0 to 40 bars)	0.96 kgs
0780P1500	TEST GAUGE, 0 to 1500 psi, (0 to 100 bars)	0.92 kgs
3000-009L2.25	CONTROL VALVE CONNECTOR, 1/4" NPT	0.09 kgs
3000-011	METERING FLOW CONTROL VALVE	0.28 kgs
3072	COMPRESSED GAS CYLINDER 25 cubic ft. capacity nitrogen supply tank.	5.22 kgs
3075L04CR	LEGS, 4" (10 cm) long, (set of 4)	0.41 kgs
3075L08CR	LEGS, 8" (20 cm) long, (set of 4)	0.99 kgs
3075L32CR	LEGS 32" (81 cm) long, (set of 4)	3.44 kgs
M802X149	NEOPRENE O-RING SEAL, for all specimen holders	0.004 kgs