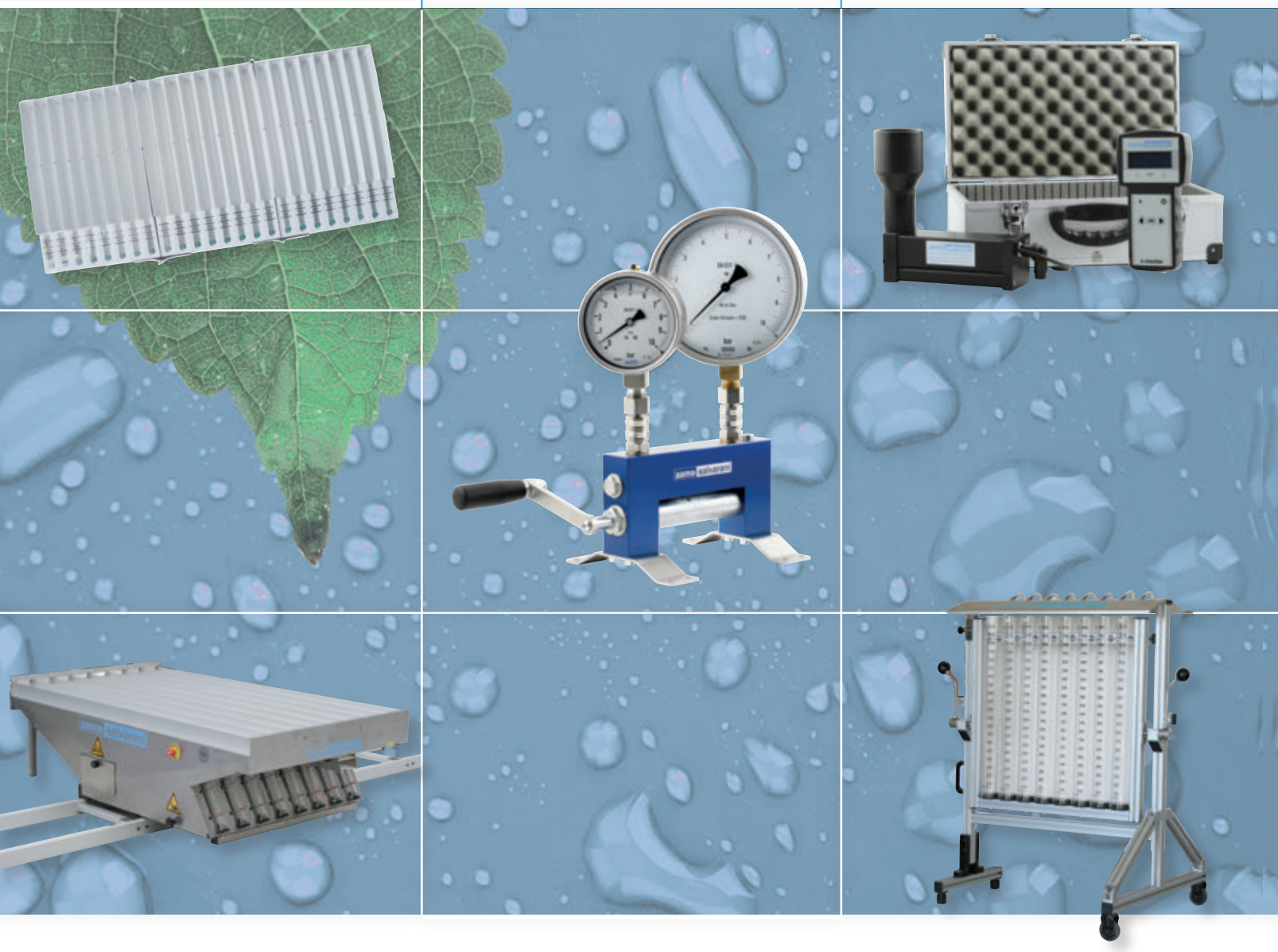
aams-salvarani

SPRAY TEST PRODUCTS



CAT. 01/GB-SRB-FEB 2014

www.aams-salvarani.com

AAMS-Salvarani

AAMS-SALVARANI bvba is a recently founded company in Belgium. It started in 2002 under the name A.A.M.S. (Advanced Agricultural Measurement Systems) with the development and production of test and measuring equipment for agricultural machinery. The synergy between the former A.A.M.S. and SALVARANI Srl from Italy allows both companies to profit of the knowledge exchange by implementing the best practices and making use of specific experiences to strengthen this strategic partnership.

These advantages exceed the possibilities of the company to reach their new goals: being present in many countries worldwide and offering a wider range of unique product solutions for the inspection and calibration of spraying equipment. Together both companies form a strong team with many years of experience in the field of agricultural technology. The focus still lies on the development of products for testing, calibrating and adjusting sprayers used in the different areas of agriculture and horticulture.

AAMS-SALVARANI bvba aims to stay involved with the latest developments in the field of agricultural mechanization and to meet the needs of regulations. During the creation of adequate solutions for new and used machinery the recommendations of the producers of agricultural machinery are always taken in consideration.

AAMS-SALVARANI bvba can rely on a team of experts, each of them with a long professional history and a lot of experience within the field of spraying techniques. This makes it possible for us to develop and provide the most progressive measurement and testing machinery in cooperation with research institutes, universities, producers of agricultural machinery, training units, test centers and inspection authorities.

Today AAMS-SALVARANI bvba offers a complete range of products for the control and inspection of sprayers, used in agriculture and horticulture (including horticulture under glass) and equipment for controlling (chemical and organic) fertilizer spreaders and slurry injectors. AAMS-SALVARANI bvba is stationed in Maldegem, Belgium. SALVARANI srl is the contact point for the Italian users and research centers interested in the optimization of pesticide use in agriculture.

AAMS-SALVARANI kompanija je osnovana u Belgiji i počela je da radi 2002. godine pod imenom AAMS i bavila se razvojem i proizvodnjom opreme za merenje i testiranje poljoprivredne mehanizacije.

Nova kompanija nastala je ujedinjenjem firmi AAMS i SALVARANI iz Italije. Prednosti ovog strategijskog ujedinjenja u novu firmu je sublimacija najbolje prakse i iskustva. Ovakva nova firma je zacrtala sebi nove ciljeve, ali isto tako ponudila tržištu i širu paletu proizvoda i rešenja za kalibraciju i kontrolu mašina za zaštitu bilja.

Naš razvojni tim sa višegodišnjim iskustvom na polju poljoprivrednih tehnologija, razvija nove proizvode za testiranje, kalibraciju i podešavnje mašina u zaštiti bilja u poljoprivredi ali i u hortikulturi.

AAMS-SALVARANI i u budućnosti ostaje uključen u razvoj najnovijih tehnologija na polju poljoprivredne mehanizacije, kao i želje da korisnicima pruži sve neophodne alate i tehnike da mogu sami da podese nove ili postojeće poljoprivredne mašine.

Naše dugo i bogato iskustvo sa opremom za tretiranje pesticidima, omogućava nam da razvijamo novu opremu za merenja i testiranja. Isto tako ponudili smo svoje bogato iskustvo te razvijamo specifične proizvode i opremu kao i specijalizovane trening kurseve za istraživačke institute, poljoprivredne fakultete, proizvođače poljoprivrednih mašina, centre za održavanja i opravku mehanizacije itd.

Danas AAMS-SALVARANI nudi kompletnu paletu proizvoda za kontrolu i inspekciju mašina u zaštiti bilja i to kako u poljoprivredi, tako i u hortikulturi (uključujući i proizvodnju u zaštićenom prostoru), i opremu za kontrolu (hemijsku i organsku) rasipača mineralnih đubriva, kao i depozitora tečnog stajnjaka.

AAMS-SALVARANI je sa sedištem u Maldegemu u Belgiji. Ogranak Salvarani je zadužen za tržište Italije i istraživačke centre zainteresovane za optimizaciju u korišćenju pesticida u poljoprivredi.

Index:

Sadržaj:

ENTAM (European Network for Testing of Agricultural Machines) is the network constituted by the official testing stations in those European countries which have signed an agreement on shared activities.
Their tests are based on national, European or international standards, or shared agreements (or methodologies), and provide manufacturers with useful information on ways to improve machinery.

ENTAM (European Network for Testing of Agricultural Machines) je udruženje osnovano od strane sertifikovanih ispitnih stanica u onim Evropskim zemljama koje su potpisale sporazum o zajedničkim aktivnostima.

The mission of JKI (Julius Kühn-Institute) is to ensure a proper and environmentally correct pest management in practice. The technical assessments carried out in the institute on sprayers, its components and seeders are an important source of information concerning technical developments. This helps to recognise problems in practice early and to advise industry and agriculture about better use and application of available tools and techniques.

Zadatak JKI (Julius Kühn-Institute) je da obezbedi pravilan i ekološki ispravan menadžment aplikacije pesticida u praksi. Tehničke procene se vrše u Institutu za prskalice i tehničke komponente što je važan izvor informacija s obzirom na tehnička dostignuća, a omogućava rano otkrivanje problema i savetovanje industrije i poljoprivrede o boljoj upotrebi i aplikaciji raspoloživih alata i tehnike.

Legend
Legenda

Field crop sprayer
Ratarske prskalice

Research centers / Universities
Istraživački centri/Fakulteti

Spreader
Rasipači

Demo equipment
Demo oprema

Air blast sprayer
Atomizeri

Calibration service
Kalibracijski servis

Manometer tester

For checking the precision of manometers used on sprayers and other machinery

The AAMS manometer tester is especially designed for checking manometers of all types of sprayers or other agricultural machinery. The device is therefore equiped with quick couplings to allow a fast and proper mounting of manometers without the risk of damaging the thread of the measuring device with improper mounting. The AAMS manometer tester is delivered with a high precision certified dry reference manometer (foreseen with a fine graduation).

• The reference manometer can be selected with an end-scale value of 6, 10, 16, 25, 40 or 60 bar. The reference manometer has a diameter of 160 mm and a class of 0.6. Other classes or digital pressure sensors are available on demand.

•The hydraulic pump allows pressure measurements up to 100 bar.

•Quick fit couplings are provided to attach the manometers to be tested with a connection of ¼ and ½ ". Others are available on request.

•The reference manometer is packed in a robust box for safe transport.

Kontrolor manometra

Za ispitivanje preciznosti manometara na prskalicama i drugim mašinama

AAMS-Salvarani kontrolor manometra je specijalno dizajniran za ispitivanje manometara na svim tipovima prskalica ili drugim poljoprivrednim mašinama. Uređaj je zbog toga opremljen brzim spojnicama koje omogućavaju brzu i pravilnu montažu manometara bez rizika od oštećenja navoja mernog uređaja prilikom nepravilne montaže. AAMS-Salvarani kontrolor manometra se isporučuje sa suvim referentnim manometrom visoke preciznosti i gušće graduisan radi lakšeg očitavanja.

• Referentni manometar može biti sa opsegom merenja od 6, 10, 16, 25, 40 ili 60 bar. Referentni manometar je prečnika 160 mm i klase tačnosti 0.6. Druge klase tačnosti ili digitalni senzor pritiska su dostupni prema zahtevu.

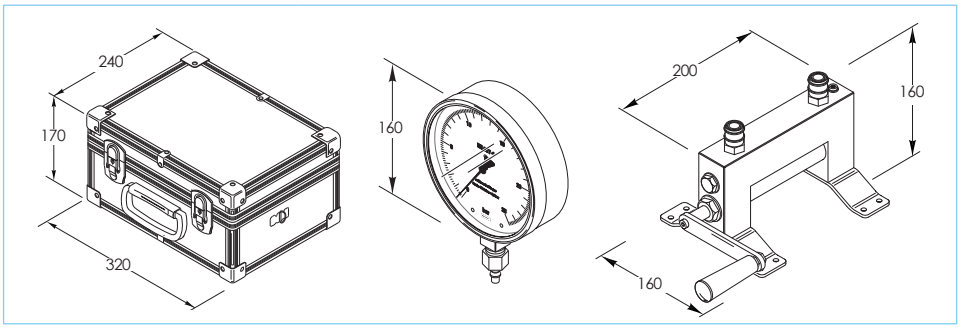
• Hidraulična pumpa omogućava merenje pritiska do 100 bar.

• Brzim spojnicama od ¼'' i ½'' obezbeđuje se postavljanje manometra koji se testira. Druge veličine priključaka su dostupne prema zahtevu.

• Referentni manometar je upakovan u čvrstu kutiju zbog sigurnog transporta.

0221601

Fittings
Spojnice



Code Šifra	Description	Opis	Use Upotreba	MAX (bar)	Class Klasa	BSP
0221601	Manometer tester	Manometar tester		100	-	-
0222025	Manometer 6 bar with certificate	Manometar 6 bar sa sertifikatom		6	0,6	G 1/2"
0222027	Manometer 10 bar with certificate	Manometar 10 bar sa sertifikatom		10	0,6	G 1/2"
0222029	Manometer 16 bar with certificate	Manometar 16 bar sa sertifikatom		16	0,6	G 1/2"
0222031	Manometer 25 bar with certificate	Manometar 25 bar sa sertifikatom		25	0,6	G 1/2"
0222033	Manometer 40 bar with certificate	Manometar 40 bar sa sertifikatom		40	0,6	G 1/2"
0222035	Manometer 60 bar with certificate	Manometar 60 bar sa sertifikatom		60	0,6	G 1/2"
0221600	Manometer 60 bar for calibration	Manometar 60 bar sa sertifikatom		60	0,25	G 1/2"

Reference manometer calibration set

Precision digital pressure gauge Model CPG1000

The model CPG1000 precision digital pressure gauge takes the concept of an analogue gauge, and takes it to a level only matched by digital calibrators. The accuracy of digital measurement technology and the simplicity of an analogue gauge are brought together in the CPG1000, which in terms of performance, ease-of-use, and instrument features, is unmatched in the pressure measurement market.

Set za kalibraciju referentnog manometra

Digitalni manometar visoke preciznosti Model CPG1000

Model CPG1000 je precizni digitalni manometar koji kombinuje visoku preciznost digitalne elektronike sa udobnosti i lakoćom korišćenja analognog manometra. Preciznost digitalne tehnologije i jednostavnost upotrebe analognog uređaja, zajedno čine da CPG1000 sa svojim karakteristikama bude konkurentan na tržištu mernih instrumenata.

Applications

- Oil and gas industry
- Maintenance and service facilities
- Calibration service companies and service industry
- Simple calibrations directly on site

Upotreba

- Naftna i gasna industrija
- Ustanove za održavanje i servisiranje opreme
- Laboratorije za kalibraciju i servisna industrija
- Jednostavna kalibracija na licu mesta

Special features

- Measuring ranges from 0 ... 70 mbar up to 0 ... 700 bar (vacuum and absolute pressure ranges also available)
- Accuracy: 0.05 % (incl. calibration certificate)
- Intrinsically safe version Ex nA IIB T6 per ATEX
- Rugged stainless steel case to NEMA 4/IP 65
- Data-logger evaluation software CPGLog and complete service cases (incl. test pumps) available

Karakteristike

- Merni opsezi od 0...70 mbar i od 0...700 bar (opsezi vakuuma i apsolutnog pritiska takođe su dostupni)
- Tačnost instrumenta: 0.05 % (sa sertifikatom za kalibraciju)
- Sigurnosna verzija Ex nA IIB T6 prema ATEX
- Kućište od nerđajućeg čelika NEMA 4/IP 65
- CPGLog softver za prenos i čuvanje podataka

Accuracy

The CPG1000 offers an accuracy of 0.05 % of the full scale value in 14 pressure ranges. It is temperature compensated between 0 ... 50 °C. Readings can be displayed in one of 21 standard units or also in customer-specific units, so that awkward conversions are avoided.

Preciznost uređaja

CPG1000 ima preciznost od 0.05 % pune skale za svih 14 mernih opsega pritiska. Temperaturna kompenzacija u rasponu od 0.... 50°C. Očitavanje se vrši u jednoj od 21 standarne merne jedinice, čime je eliminisana konverzija mernih jedinica.

Sampling rate

The measuring rate can be user-defined to match the type of measurement required. Standard applications usually use three measured values per second. If required, this rate can also be set to ten measured values per second. Via an energy-saving function, the CPG1000 switches automatically into “sleep” mode. With this, the battery life increases to up to 2,000 hours.

Uzorkovanje

Stopu merenja može definisati sam korisnik kako bi je prilagodio zahtevima merenja. Standardne aplikacije obično koriste tri merne vrednosti u sekundi. Ako se zahteva, moguće je podesiti na 10 mernih vrednosti u sekundi. Funkcija za čuvanje energije, omogućava da se CPG1000 automatski prebaci u “sleep mode”, čime se produžava vek trajanja baterije do 2000 sati.

Features

With the MIN/MAX function, the highest and lowest pressures that have been automatically recorded by the CPG1000 can be immediately retrieved. An automatic power-off function can be activated after a predefined time interval in order to extend battery life. The ZERO and TARE functions compensate for any sensor drift. Password protection for on-site calibration can be activated via the CPG1000 keypad. An RS-232 serial interface enables data for offline analysis to be read directly form the measuring instrument. An optional, external 24 V power supply input is available for the user, for when the CPG1000 is permanently built in to a process chain. The selectable damping function helps stabilise strongly-fluctuating pressures and makes them easier to read.

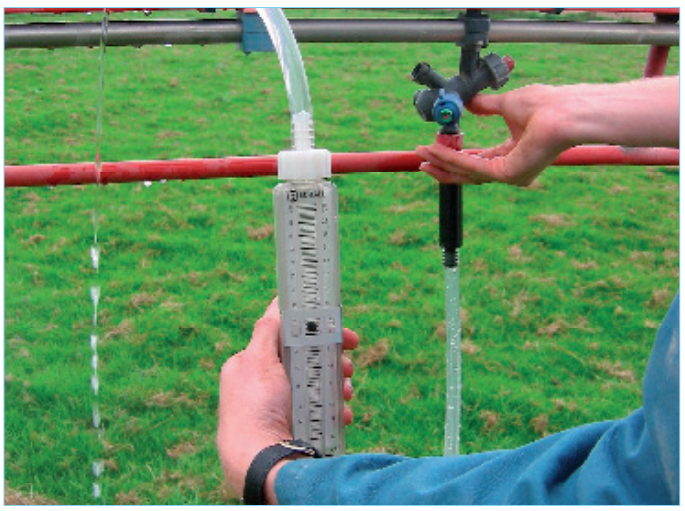
Karakteristike

Pomoću funkcije MIN/MAX automatski se memorišu najviše i najniže vrednosti pritiska. Opcija za automatsko isključenje uređaja može se aktivirati nakon definisanog vremenskog intervala kako bi se produžio vek trajanja baterije. Funkcije ZERO i TARE kompenzuju bilo koji senzor drifta. Preko tastature uređaja može se postaviti lozinka za zaštitu kalibracijskog uređaja. Serijski interfejs RS-232 omogućava direktno očitavanje i analizu podataka sa instrumenta. Opciono, može se isporučiti uređaj sa priključkom za eksterni izvor napajanja od 24 V. Podesiva funkcija za prigušenje pomaže stabilizaciji pritiska i time olakšava očitavanje.

Passive Flow Meter

To compare the flow output of nozzles on sprayers

The passive flow meters are equipped with an universal adaptor to fit on all types of nozzles and nozzle caps. The universal adaptor avoids leakages during the measurement.
The slider allows a comparison of flow rates, measured along the boom. The flow rate should always be within the window to have good functioning nozzles.
The flow meter is kept under a nozzle. All the liquid is collected and steered through the measuring glass. The black ball in the meter, indicates the flow with an absolute precision of 3-10% (relative precision 1,5% between identical nozzles).



Pasivni merač protoka rasprskivača

Za merenje protoka rasprskivača na prskalicama

Pasivni merači protoka su opremljeni univerzalnim adapterom koji odgovara svim tipovima rasprskivača i kapa rasprskivača. Univerzalnim adapterom izbegava se gubitak tečnosti tokom merenja.
Klizač omogućava poređenje protoka merenog celom dužinom grane prskalice. Protok (položaj kuglice) treba uvek da bude u okviru prozora da bi bila dobra funkcionalnost rasprskivača.

Merač protoka stavlja se ispod rasprskivača, a sva tečnost protiče kroz protokomer i podiže mernu kuglicu u providnom kućištu sa apsolutnom preciznošću od 3-10% (odnosno relativnom preciznošću od 1.5% između istih rasprskivača).

Code Šifra	Description	Opis	Use Upotreba
0222264	Passive sensor for nozzle flow rate	Pasivni senzor za merenje protoka rasprskivača	
0222010	Slide for passive flow sensor	Klizač pasivnog senzora	
0222276	Adaptor for passive flow sensor	Adapter za pasivni senzor	

Basic accessories

• A stopwatch to measure the time to collect a quantity of liquid in a measuring glass or the time to cover a certain distance to calculate the forward speed;

• A digital tyre pressure gauge to define the pressure in the air chamber/ pump accumulator;

• A measuring glass of 2 l with graduation every 20 ml (can be replaced by a measuring glass of 1l, graduated every 10 ml)

Osnovna oprema za kontrolu

• Štoperica za merenje vremena prikupljanja tečnosti u menzuru ili za merenje vremena za koje se pređe određen put radi izračunavanja brzine kretanja traktorskog agregata;

• Digitalni merač pritiska za utvrđivanje pritiska u vazdušnoj komori/akumulatoru pumpe;

• Menzura zapremine 2 L graduisana po 20 ml (može se zameniti menzurom zapremine 1 L, graduisanom po 10 ml).

Code Šifra	Description	Opis
0666068	Measuring glass 2 liter, graduation 20 ml, class 1%	Menzura od 2 L, graduisana po 20 ml, klase tačnosti merenja od 1%
0222006	Digital pressure sensor for pump accumulator	Digitalni senzor pritiska
0222005	Digital Stopwatch, class 1%	Digitalna štoperica, klase tačnosti od 1%

Manometers Pressure Adapters

To define the pressure at location of nozzles or nozzles holder

AAMS has developed their manometer pressure adaptors to be applied on all types of sprayers and nozzle caps. With the AAMS manometer pressure adapters, the pressure can be read precisely at the location of a nozzle or nozzle holder. The adaptors are equiped with manometers with a diameter of 100 mm, class 1.0 (as requested by the European Standard prEN13790 for inspection of sprayers). In option, the manometer can be mounted on a hook. In this case, the nozzle has to be mounted under the manometer to have an even more precise reading of the pressure. The option with the hook prevents the creation of an obstruction in the section of measurement. Ideally, 1 manometer should be mounted on every section to be able to compare the pressure of all sections. With these manometer pressure adaptors, 6 major points of the hydraulic system of a sprayer can be verified:

- Pressure stability of the sprayer;
- The functionality of the manometer/pressure sensor of the sprayer;
- Pressure equilibrium between the different sections of the sprayer;
- Pressure loss between the manometer of the sprayer and the location of a nozzle;
- Pressure loss within a section;
- The functionality of the compensatory return of the section valves.

0222018

0111000

Adapteri za manometre

Za utvrđivanje razlike pritiska na rasprskivačima duž krila prskalice

AAMS-Salvarani je razvio adaptere za manometre koji se mogu primenjivati na svim tipovima prskalica i kapa rasprskivača. Sa AAMS-Salvarani adapretima za manometre, pritisak se može precizno očitati na samom rasprskivaču ili na nosaču rasprskivača. Adapteri su opremljeni manometrima prečnika 100 mm, klase 1.0 (kao što se zahteva prema Evropskom Standardu EN13790 za ispitivanje prskalica). Opciono, manometar se može montirati na kuku. U tom slučaju, rasprskivači se moraju montirati ispod manometra da bi bilo što preciznije očitavanje. Opcija sa kukom sprečava stvaranje opstrukcije u sekciji gde se obavlja merenje. Idealno, 1 manometar bi trebalo montirati na svakoj sekciji da bi se mogao porediti pritisak na svakoj sekciji. Pomoću ovih adaptera za manometre može se proveriti 6 glavnih tačaka na hidrauličnom sistemu prskalice:

- Stabilnost pritiska na prskalici
- Funkcionalnost manometra/senzora pritiska prskalice
- Ravnoteža pritiska između različitih sekcija na prskalici
- Pad pritiska između manometra na prskalici i rasprskivača
- Pad pritiska na sekciji
- Funkcionalnost kompenzacionog povratnog voda ventila na sekciji

Adapteri za manometre mogu se obezbediti za manometre prečnika 100 mm, klase 1.0 i mernog opsega od 6, 10, 16, i 25 bar. Druge klase tačnosti i dimenzije manometra su dostupne prema zahtevu.

Calibration service available
Kalibracijski servis dostupan

1120005

Code Šifra	Description	Opis	Use Upotreba	CL	MAX (bar)
0111000	Manometer Adapter for Hook	Adapter za manometre prečnika cevi 9 mm		-	-
0111002	Manometer Adapteer with Hose Tail ø 9			-	-
0223011	Adapter 1/2" F	Adapter 1/2" F			
0223010	Adapter 3/8" F	Adapter 3/8" F			
0222174	Adapter 1/4" F	Adapter 1/4" F			
0223009	Adapter for TeeJet / Arag	Adapter za Tee Jet/Arag			
0223008	Adapter for Hardi	Adapter za Hardi			
0222017	Nozzle pressure adapter hook, 6 bar	Adapter pritiska za rasprskivače sa kukom, 6 bar		1,0	6
0222018	Nozzle pressure adapter hook, 10 bar	Adapter pritiska za rasprskivače sa kukom, 10 bar		1,0	10
0222019	Nozzle pressure adapter hook, 16 bar	Adapter pritiska za rasprskivače sa kukom, 16 bar		1,0	16
0222020	Nozzle pressure adapter hook, 25 bar	Adapter pritiska za rasprskivače sa kukom, 25 bar		1,0	25
1120005	Alu box for transport of hooks	Aluminijumska kutija za transport kuka		-	-
2005001	Calibration service for pressure gauge	Kalibracijski servis za manometre			

TESTBOX

A set of 8 basic tools for checking, calibration and/or inspection of a sprayer, alu box for transport of basic calibration tools (code: 1120005).

1. A digital stopwatch to measure the time to collect a quantity of liquid in a measuring glass or the time to cover a certain distance to calculate the forward speed (code: 0222005).
2. A brush to clean the nozzles (code: 0222003).
3. A passive flow meter equipped with a special adaptor and flow rate indicator, to be used on all types of nozzle holders/caps and designed to avoid leakage (code: 0222264).
4. A manual for all test components.
5. A digital pressure sensor to define the pressure in the air chamber/pump accumulator (code: 0222006).
6. Manometer tester unit (code: 0221601), analogue reference manometer, 16 bar, class 0.6, diameter 160 mm (code: 0222029), analogue reference manometer, 40 bar, class 0.6, diameter 160 mm (code: 0222033).
7. A measuring glass of 2 L, precision 1% (code: 0666068).
8. 4 pressure gauge adaptors to measure the pressure at the nozzles/nozzle holders. The 4 devices allow checking the pressure equilibrium of different sections, the compensatory bypass of the section valves, the pressure loss between sprayer gauge and the nozzle, the pressure loss within one section, the pressure stability (air chamber/accumulator functionality) and the functionality of the sprayer pressure gauge.

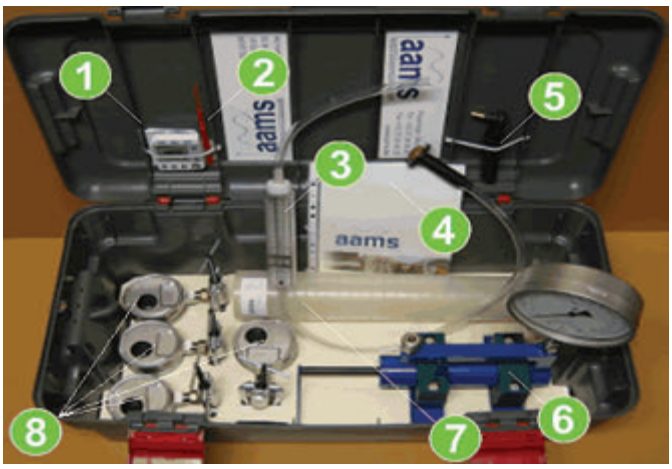
- 4 x adapter hook with univerzal adapter, manometer 10 bar, class 1.0, diameter 100 mm (code: 0222018)
- 4 x quick connection for hook Hardi sprayers (code: 0223008)
- 4 x quick connection for hook Teejet nozzle body sprayers (code: 0223009)

Komplet osnovnog alata za ispitivanje

Set od 8 osnovnih alata za proveru, kalibraciju i/ili inspekciju prskalica, aluminijumska kutija za transport osnovnih alata (šifra: 1120005)

1. Digitalna štoperica za merenje vremena prikupljanja tečnosti u menzuru ili vremena za koje traktorski agregat pređe određen put radi izračunavanja brzine (šifra: 0222005).
2. Četka za čišćenje rasprskivača (šifra: 0222003)
3. Pasivni merač protoka sa specijalnim adapterom i indikatorom protoka, za upotrebu na svim tipovima rasprskivača/nosača i namenjen za sprečavanje curenja tečnosti (šifra: 0222264)
4. Uputstvo za upotrebu za sve komponente iz kompleta.
5. Digitalni senzor pritiska za definisanje pritiska u vazdušnoj komori/akumulatoru pumpe (šifra: 0222006)
6. Ispitivač manometra za testiranje manometra na prskalici (šifra:0221601), opremljen referentnim manometrom 16 bar, prečnika 160 mm i klase tačnosti 0.6 (šifra: 0222029), referentni manometar 40 bar, prečnika 160 mm i klase tačnosti 0.6 (šifra:0222033).
7. Menzura zapremine 2 L, tačnosti 1% (šifra: 0666068)
8. 4 adaptera za manometre za merenje pritiska na rasprskivačima/nosačima. Ova 4 uređaja omogućavaju proveru jednakosti pritiska različitih sekcija, kompenzacioni obilazni vod sekcije ventila, pad pritiska između manometra i rasprskivača, pad pritiska na jednoj sekciji, stabilnost pritiska (funkcionalnost vazdušne komore/akumulatora) i funkcionalnost manometra prskalice.

- 4 x adaptera sa kukom i univerzalnim adapterom, manometar 10 bar, klase 1.0, prečnika 100 mm (šifra: 0222018)
- 4 brze spojnice za adaptere sa kukom za Hardi prskalice (šifra: 0223008)
- 4 brze spojnice za adaptere sa kukom za Teejet rasprskivače (šifra: 0223009)



Code Šifra	Description Opis
1120005	Alu box for transport of basic calibration tools Kutija sa osnovnim kompletom opreme za ispitivanje
0222005	Digital stopwatch Digitalna štoperica
0222003	Nozzle cleaning brush Četka za čišćenje rasprskivača
0222264	Passive flow meter Pasivni merač protoka
0222006	Digital pressure sensor for accumulator pump Digitalni senzor pritiska za akumulator pumpe
0221601	Manometer tester unit Ispitivač manometra
0222029	Analogue reference manometer, 16 bar, class 0.6, diameter 160 mm with calibration certificate Analogni referentni manometar, 16 bar, klase 0.6, prečnika 160 mm sa sertifikatom za kalibraciju
0222033	Analogue reference manometer, 40 bar, class 0.6, diameter 160 mm with calibration certificate Analogni referentni manometar, 40 bar, klase 0.6, prečnika 160 mm sa sertifikatom za kalibraciju
0666068	Measuring cylinder, 2000 ml, precision 1% Merna menzura, 2000 ml, preciznosti 1%
0222018	4 x adapter hook with univerzal adapter, manometer 10 bar, class 1.0, diameter 100 mm 4 x adaptera sa kukama za univerzalne adaptere, manometar 10 bar, klase 1.0, prečnika 100 mm
0223008	4 x quick connection for hook Hardi sprayers 4 x brze spojnice za adaptere sa kukom za Hardi prskalice
0223009	4 x quick connection for hook Teejet nozzle body sprayers 4 x brze spojnice za adaptere sa kukom za Teejet rasprskivače

Electronic horizontal patternator

Spray Scanner 80x150 cm

To measure the liquid distribution under a spray boom

With the AAMS spray scanner, the liquid distribution under a spray boom can be measured. The liquid distribution under a spray boom reflects the quality of the sprayer and its distribution under field conditions. The distribution is measured with a high precision and independent of the operator. The spray scanner works autonomous under the spray boom until the entire spray boom is measured.

- The spray scanner has a measuring surface of 80 x 150 cm.
- The measuring plane is horizontal (no slope in the upper surface).
- The data are stored in a memory box that can be transported to a PC.
- The memory box can be exchanged with a wireless communi cation system between scanner and PC. It allows a continuous update of results on the computer and a steering of device from the PC.
- With the software, the distribution can be reported solely or a complete inspection report can be executed and printed.
- The scanner is standard delivered with two 12V batteries and a charger.
- In the kit, 9 parts of rail of 3.2 m length are standard supplied.
- With the display unit, the scanner is activated and navigated if necessary. A part of spray boom can be measured again without completion of the rest of the spray boom (f.ex. when parameters or parts of the spray boom have been changed), the maximum working width is 72 meter.
- In option, water collection container is available.
- In option, an extension for measuring high speed nozzles (extending the measuring width from 1m50 up to 2m10). Can be added at all existing scanners as well.

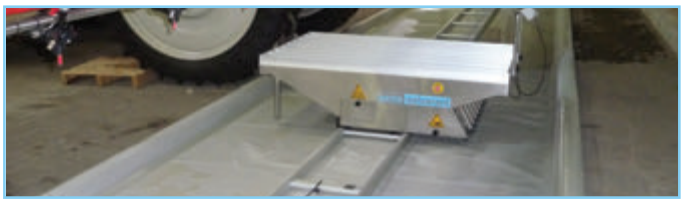
Elektronski horizontalni paternator

Sprej skener 80x150 cm

Za merenje poprečne distribucije tečnosti ispod krila prskalice

Pomoću AAMS-Salvarani sprej skenera moguće je meriti poprečnu distribuciju tečnosti ispod krila prskalice. Distribucija tečnosti ispod krila prskalice direktno utiče na kvalitet prskalice i raspodelu tečnosti u radnim uslovima. Distribucija se meri sa visokom preciznošću i nezavisno od rukovaoca. Sprej skener radi automatski ispod krila prskalice sve dok se ne izvrši merenje celom dužinom krila prskalice.

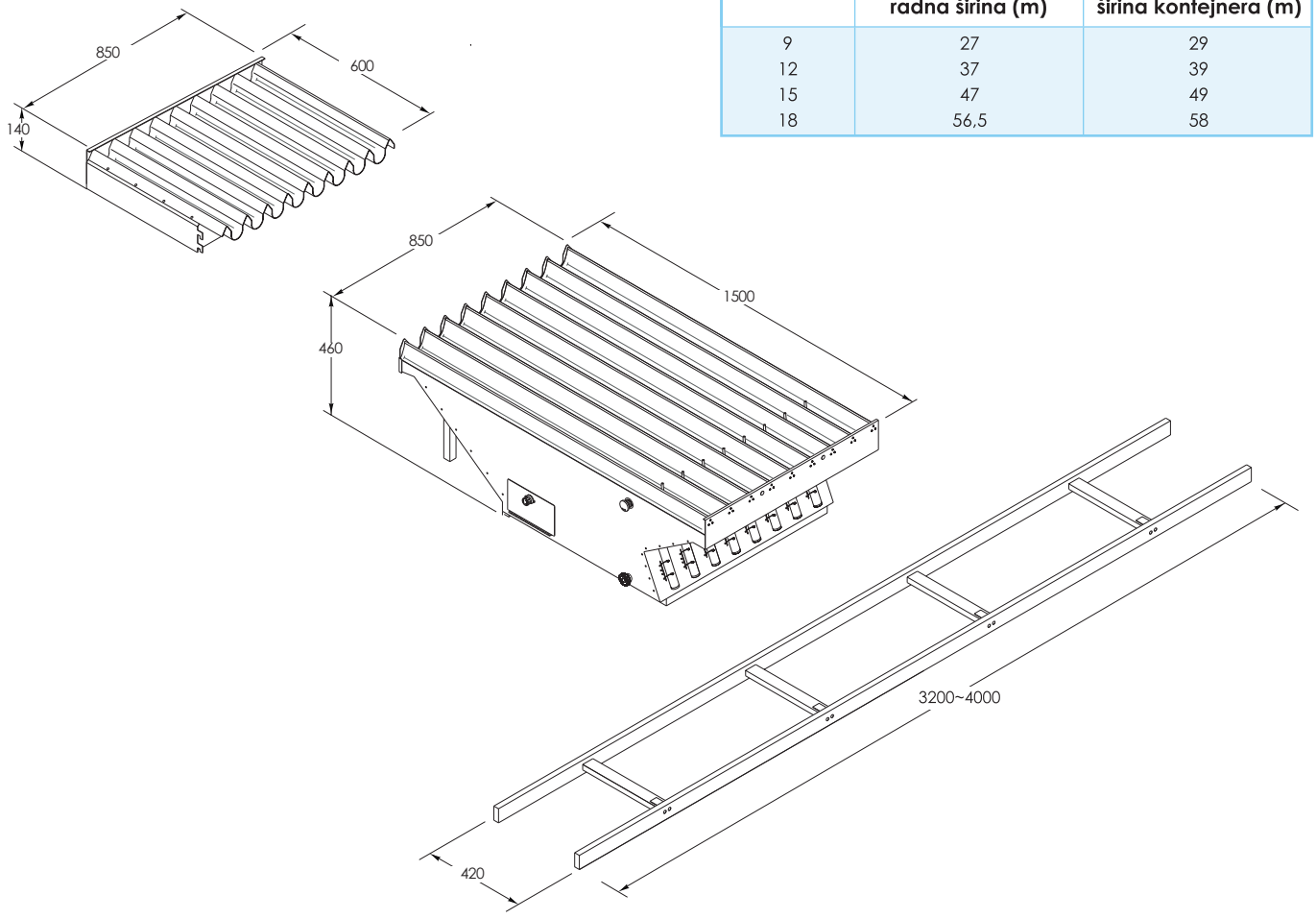
- Radna površina sprej skenera iznosi 80x150 cm
- Merna ravan je horizontalna (bez kosina u gornjoj površini)
- Podaci se skladište u memorijsku kutiju i mogu se prebaciti na PC
- Memorijska kutija se može zameniti sistemom bežične komunikacije između skenera i PC računara. Na taj način se omogućava stalno ažuriranje rezultata ispitivanja na računaru, kao i daljinsko upravljanje uređaja preko PC
- Pomoću softvera, može se dobiti pojedinačan ili kompletan inspekcijski izveštaj koji se može odštampati
- Skener se standardno isporučuje sa dve baterije od 12 V i punjačem
- U kompletu se nalazi 9 šina dužine 3.2 m kao standardna oprema
- Preko monitora skener se aktivira i upravlja ako je to neophodno. Postoji mogućnost ponovnog merenja samo dela prskalice bez obzira na ostatak krila prskalice (npr. kada se parametri ili delovi prskalice zamene), maksimalna radna širina iznosi 72 m.
- Kao opcija, nudi se bazen za prikupljanje vode
- Kao opcija nudi se i proširenje za ispitivanje dizni sa velikim protom (produžetak je širine od 1,50m do 2,10m). Može se montirati na sve potojeće skenere.



Calibration service available
Kalibracijski servis dostupan

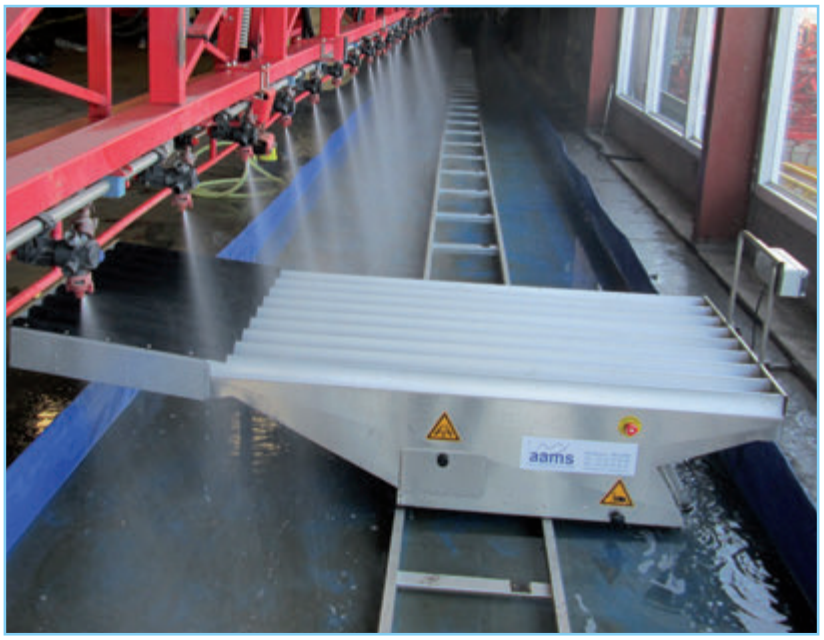
Code Šifra	Description	Opis	n°
0050130	Scanner standard, 1.50 m working depth	Standardni skener, radna širina 1.5 m	9
0050151	Scanner + radiolink	Skener + bežična veza	9
0390616	Scanner extension to 2.10 m working depth	Dodatak za skener do 2.10 m radne širine	1
0637610	Additional rail 3.20 m	Dodatna šina 3.2 m	
2002001	Calibration service for spray scanner	Kalibracijski servis za sprej skener	
2002002	Calibration unit for spray scanner	Kalibracijska jedinica za sprej skener	

# of rails broj šina	Max working width (m) Maksimalna radna širina (m)	Advised collection container width (m) Preporučena širina kontejnera (m)
9	27	29
12	37	39
15	47	49
18	56,5	58



Dodatak za skener 2.10 m radne dužine/dubine

Scanner Extension to 2.10 m working depth



Collection pool – recuperation container

Spray liquid – for environmental and operator safety – can be collected for pumping back into the sprayer. Made in a strong plastic to avoid leakages during use.

Sabirni bazen – rezervoar za sakupljanje tečnosti

Zbog bezbednosti rukovaoca i zaštite životne sredine, isprskana tečnost se može sakupiti i ponovo vratiti nazad u rezervoar prskalice. Sabirni bazen je napravljen od čvrste plastike kako bi se izbeglo curenje tečnosti tokom upotrebe.

Key features

- Practical compact design
- **Not sensitive to not clear water or foam. Most reliable device on the market.**
- Quick to set up
- Moisture proof
- Dimensiones: 38 m x 2 m x 0.3 m, weight 110 kg
- Advanced electronics of spray scanner for accuracy and reliability
- Facilitates periodic sprayer checks to ensure accuracy in agrochemical use
- Supports 'quality assurance' needs in crop protection
- Increases environmental and operator safety.
- A collection pool can be obtained in the size you require.

Ključne karakteristike

- Praktičan i kompaktan dizajn
- **Pogodan za rad sa nečistom vodom i penom. Najpouzdaniji proizvod na tržištu.**
- Brzo se montira
- Vodootporan
- Dimenzije: 38 m x 2 m x 0.3 m, težina 110 kg
- Unapređena elektronika sprej skenera za precizan i pouzdan rad
- Olakšava perodične provere prskalice kako bi se povećala preciznost pri korišćenju agrohemijskih sredstava
- Podržava "osiguranje kvaliteta" u zaštiti bilja
- Povećava bezbednost rukovaoca i životne sredine
- Sabirni bazen se može isporučiti u željenoj dimenziji zavisno od zahteva korisnika

Standard rails for spray scanner

In the kit with spray scanner, 9 parts of rail 4 m length are standard supplied.

Standardne šine za sprej skener

U kompletu sa sprej skenerom nalazi se 9 šina dužine 4 m kao deo standardne opreme.

Code Šifra	Description Opis
0041019	Collection pool – recuperation container Sabirni bazen – rezervoar za sakupljanje tečnosti
0637640	Rails of 4 meter length Šine za skener dužine 4 m

Electronic patternator calibration set

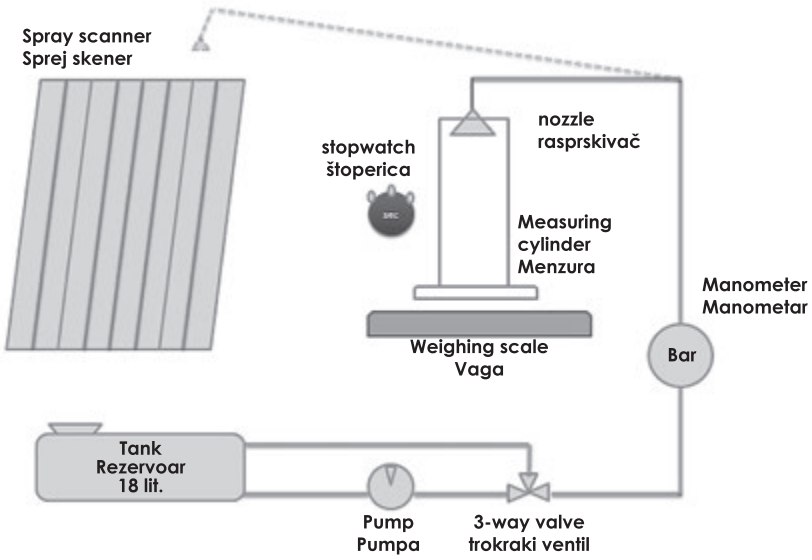
For calibration of spray scanners and other electronic patternators

The AAMS-SALVARANI electronic patternator calibration set is designed for testing and calibration of spray scanners and other electronic patternators. The set can be used for both spray-scanner, spray-scanner plus or other electronic patternators (and/or nozzle flow rate measurement devices). For calibration of electronic patternators, the set is built on a platform following the next scheme.

Set za kalibraciju elektronskog paternatora

Za kalibraciju sprej skenera i drugih elektronskih paternatora

AAMS-SALVARANI set za kalibraciju elektronskih paternatora je dizajniran za testiranje i kalibraciju sprej skenera i drugih elektronskih paternatora. Set se može koristiti za sprej skener, sprej skener plus ili ostale elektronske paternatore (i/ili druge uređaje za merenje protoka rasprskivača).
Set za kalibraciju elektronskih paternatora napravljen je prema sledećoj šemi.



The set has a pump working on 12V (7.5 Amp) and is powered by a battery. The pump can supply up to 6 l/min at a pressure of 4 bar. It is connected to a tank with a content of 18 liters.

After the pump a 3-way valve is installed to create the desired flow rate/pressure combination to the nozzle. The pressure can be verified with an analogue manometer, diameter 100 mm, class 1.0, end-scale 6 bar. With this manometer is possible to verify that the flow rate is stable during the calibration.

The nozzle is installed on a flexible arm that can be hold above a measuring cylinder, a collector or a gutter of an electronic patternator. In combination with a stopwatch and a precision weighing scale (range 0-3 kg, precision 0.1%, DKD certified), the flow can be verified and calculate at the start and the end of the calibration procedure.

By changing the position of the nozzle arm above the patternators, a precise and known flow is created above each single gutter of the electronic patternator. By comparing this value to the measured value by the patternator, the calibration values can be calculated. After calculation and entering the new calibration values, the electronic patternators can be validated again with the same and/or other known flow rates.
The set is supplied with a battery charger working 230V, nozzles for creating typical flow as 0.3, 0.5, 0.66 and 1.5 l/min for the different flow rate calibrations.

U okviru seta se nalazi pumpa koja radi pri naponu baterije od 12V (7.5 Amp). Protok pumpe je do 6 l/min pri radnom pritisku od 4 bar, i povezana je sa rezervoarom kapaciteta 18 litara.

Posle pumpe nalazi se trokraki ventil kojim se podešava željena kombinacija protoka i pritiska za rasprskivače. Pritisak se očitava na analognom manometru prečnika 100 mm, klase tačnosti 1.0, mernog opsega 6 bar. Na manometru je moguće pratiti stabilnost protoka tokom kalibracije.

Rasprskivač je montiran na fleksibilnoj ruci koja se može držati iznad mernog cilindra, kolektora ili kanala elektronskog paternatora. U kombinaciji sa štopericom i preciznom digitalnom vagom (opsega 0-3 kg, preciznosti 0.1% i DKD sertifikatom), protok se može utvrditi i izračunati na početku i na kraju postupka kalibracije.

Promenom položaja rasprskivača iznad paternatora, utvrđuje se tačan i poznati protok iznad svakog sprovodnog oluka. Poređenjem ovih vrednosti koje su izmerene na paternatoru, mogu se izračunati kalibracijske vrednosti. Nakon izračunavanja i upisivanja novih kalibracijskih vrednosti, elektronski paternator se može ponovo proveriti poređenjem sa poznatim protokom.
U okviru kompleta isporučuje se punjač za baterije od 230 V, rasprskivač sa tipičnim protocima od 0.3, 0.5, 0.66 i 1.5 l/min za različite kalibracije protoka.

Code Šifra	Description Opis
2002002	Electronic patternator calibration set Set za kalibraciju elektronskog paternatora

Example pictures of comparable systems with different characteristics.

Primeri sličnih sistema različitih karakteristika.

Pump tester and flow meter analyzers

To measure the capacity of pumps and other flow rates on sprayers

The AAMS pump tester is designed to define the capacity of pumps at different counter pressures. Therefore, the AAMS pump tester is equipped with an inductive flow sensor and an electronical pressure sensor. Both sensors are connected to a monitor, that displays continuously pressure and flow rate. The AAMS pump tester is conform the European Standard EN13790 for inspection of sprayers.

- The pump tester can measure up to 80 bar.
- The flow meter measures in ranges starting from 8 L/min up to 1300 L/min. (Other ranges are available on demand)
- The monitor has a memory for 100 combined pressure and flow rate values. The stored values can as well be printed or transferred to a PC (optional).
- The sensors are of 0,5% precision class (with calibration certificate).
- With the built-in pressure regulator, a counter pressure can be set.
- with the transparant part, air sucked by the pump can be detected
- Quick fit connectors are provided for fast and reliable connection with the pump lines.
- The pump tester works on a 12V battery and is mounted in a durable box

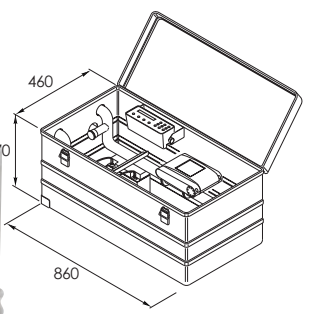
Ispitivač pumpi i analizator merača protoka

Za merenje kapaciteta pumpe i svih drugih protoka na prskalici

AAMS-Salvarani ispitivač pumpi služi za utvrđivanje stvarnog kapaciteta pumpe pri različitim pritiscima. Opremljen je induktivnim senzorom protoka i elektronskim senzorom pritiska. Oba senzora su povezana na monitor, koji kontinuirano prikazuje pritisak i protok. AAMS-Salvarani ispitivač pumpi je u skladu sa Evropskim Standardom EN 13790 za ispitivanje prskalica.

- Ispitivač pumpe može da meri pritiske do 80 bar
- Merač protoka meri u opsegu od 8 L/min do 1300 L/min (Drugi opsezi su dostupni po porudžbini)
- Monitor ima memoriju za 100 kombinovanih vrednosti pritiska i protoka.
- Senzori su klase tačnosti 0.5% (sa sertifikatom za kalibraciju)
- Funkciju regulatora pritiska- prigušnice obavlja ventil, i on se može podesiti
- Pomoću providnog dela može se detektovati ukoliko pumpa vuče „falš vazduh"
- Brzim spojnicama se obezebeđuje brza i pouzdana veza sa priključcima na pumpi
- Ispitivač pumpi ima baterijsko napajanje od 12 V, montirano u robusnoj transportnoj kutiji

Calibration service available
Kalibracijski servis dostupan



Code Šifra	Description	Opis	MAX (bar)	Q (l/min)
1600101	Pump tester ECO, 8-330 l/min, 20 bar, 1", transparent	Ispitivač pumpi ECO, 8-330 l/min, 20 bar, 1'', sa kontrolnim staklom	20	8-330
1600002	Pump tester ECO, 15-500 l/min, 20 bar, 1 1/4", transparent	Ispitivač pumpi ECO, 15-500 l/min, 20 bar, 11/4'', sa kontrolnim staklom	20	15-500
1600201	Pump tester ECO, 25-900 l/min, 20 bar, 1 1/2", transparent	Ispitivač pumpi ECO, 25-900 l/min, 20 bar, 11/2'', sa kontrolnim staklom	20	25-900
1060001	Upgrading kit for ECO version - transducer	Komplet za nadogradnju ECO verzije		
			-	-
0443999	Pump tester 8-330 l/min, 0.5%, 20 bar, 1", incl. transparent	Ispitivač pumpi 8-330 l/min, 0.5%, 20 bar, 1'', sa kontrolnim staklom	20	8-330
0444163	Pump tester 15-500 l/min, 0.5%, 20 bar, 1 1/4", incl. transparent	Ispitivač pumpi 15-500 l/min, 0.5%, 20 bar, 11/4'', sa kontrolnim staklom	20	15-500
0444004	Pump tester 25-900 l/min, 0.5%, 20 bar, 1 1/2", incl. transparent	Ispitivač pumpi 25-900 l/min, 0.5%, 20 bar, 11/2'', sa kontrolnim staklom	20	25-900
0444250	Pump tester 35-1300 l/min, 0.5%, 20 bar, 2", incl. transparent	Ispitivač pumpi 35-1300 l/min, 0.5%, 20 bar, 2'', sa kontrolnim staklom	20	35-1300
2003001	Calibration service for pump tester	Kalibracijski servis za ispitivač pumpe		
2003002	Calibration unit for pump tester	Kalibracijska jedinica za ispitivač pumpe		

Flow-meter calibration set

Calibration unit for pump tester/flow sensor

For validating the precision of flow sensors (individual or integrated)

The AAMS-SALVARANI flow-meter calibration set is designed for testing and validation flow sensors used in inspections of sprayers. The set can be used for both individual flow sensors as for flow sensors integrated in pump testers.

For checking the flow sensors, the set is built on a platform following the next scheme.

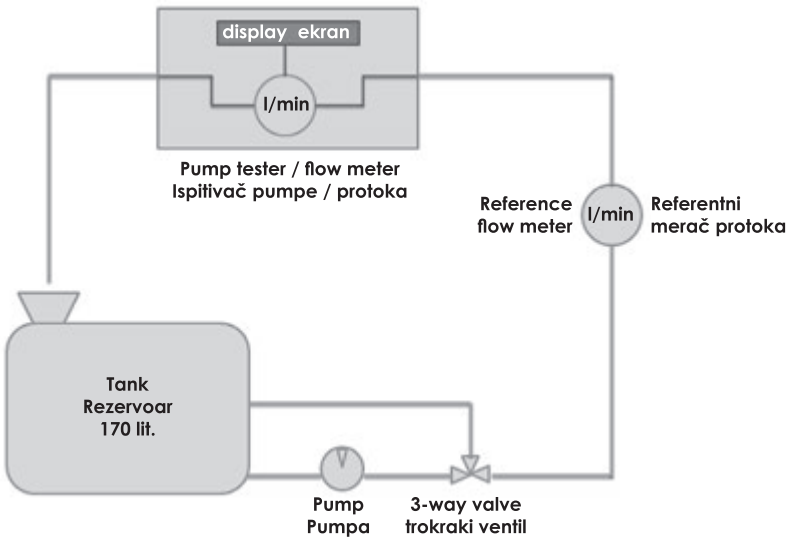
Set za kalibraciju merača protoka

Kalibracijska jedinica za ispitivač pumpe / senzor protoka

Za utvrđivanje preciznosti senzora protoka (pojedinačnih ili integrisanih)

AAMS-SALVARANI set za kalibraciju merača protoka služi za testiranje i utvrđivanje preciznosti senzora protoka koji se koriste za inspekciju prskalica. Set se može koristiti kako za pojedinačne senzore tako i za senzore integrisane u ispitivaču pumpe.

Set za proveru senzora protoka napravljen je prema sledećoj šemi.



The set has a pump working on 230V (1.1kW/1.5hp) and supplies 533 l/min at a max pressure of 1 bar and 150 l/min at a max pressure of 2.2 bar. The pump is connected to a tank with a nominal content of 170 liters (45 Gallons).

The flow sensor has a precision of 0.5% in the range of 15 up to 500 l/min.

The flow that is guided to the flow sensor and the flow sensor to be validated is altered by changing the position of the 3-way valve. The 3-way valve is used as a by-pass to be able to create different flow ranges between 0 and 533 l/min without damaging the pump.

The connections after the flow sensor to connect to be tested flow sensor have following dimensions: 1", 1 ¼", 1 ½" and 2". Other sizes of connections are available on request.

U okviru seta se nalazi pumpa koja radi pri naponu od 230 V (1.1 kW/1.5 KS) i ima protok od 533 l/min pri max pritisku od 1 bar i 150 l/min pri max pritisku od 2.2 bar. Pumpa je povezana sa rezervoarom nominalnog kapaciteta 170 litara (45 galona).

Preciznost senzora je 0.5 % u opsegu od 15 do 500 l/min.

Promenom položaja trokrakog ventila utvrđuje se vrednost protoka. Trokraki ventil se koristi kao bajpas kojim se formiraju različiti opsezi protoka između 0 i 533 l/min bez oštećenja pumpe u toku rada.

Dimenzije priključaka: 1", 1 ¼", 1 ½" i 2". Ostale dimenzije su dospune po zahtevu.

Code Šifra	Description Opis
2003002	Flow meter calibration set for 15 up to 500 l/min Set za kalibraciju merača protoka za opseg od 15 do 500 l/min

Example pictures of comparable systems with different characteristics.

Primeri sličnih sistema različitih karakteristika.

Vertical Patternator with discs

To control and calibrate atomizers

Strong, reliable, well tested and easy to use, the VERTICAL PATTERNATOR offers the most effective and economic resolution of the control and calibration of the airblast sprayers.
Due to its compact design and its light weight, it is more practical and easy to handle, the VERTICAL PATTERNATOR is satisfying most of the users as the operation can be done in the farm, transporting the patternator very quickly with a car, and requiring just only one technician.
The Vertical PATTERNATOR for Atomizers contains the following parts:

• Driving base, existing out of 2 segments of each 2 m each, to allow the movement of the collecting structure in front of all nozzles

• Steel base, including the drive components

• Collection tree of 4,5 meter high, foldable in 3 parts, connected with 3 quick connection segments. Collectiong the liquid in trays per 20 cm connected to measuring glasses of 100 ml.

Merač vertikalne distribucije sa diskovima

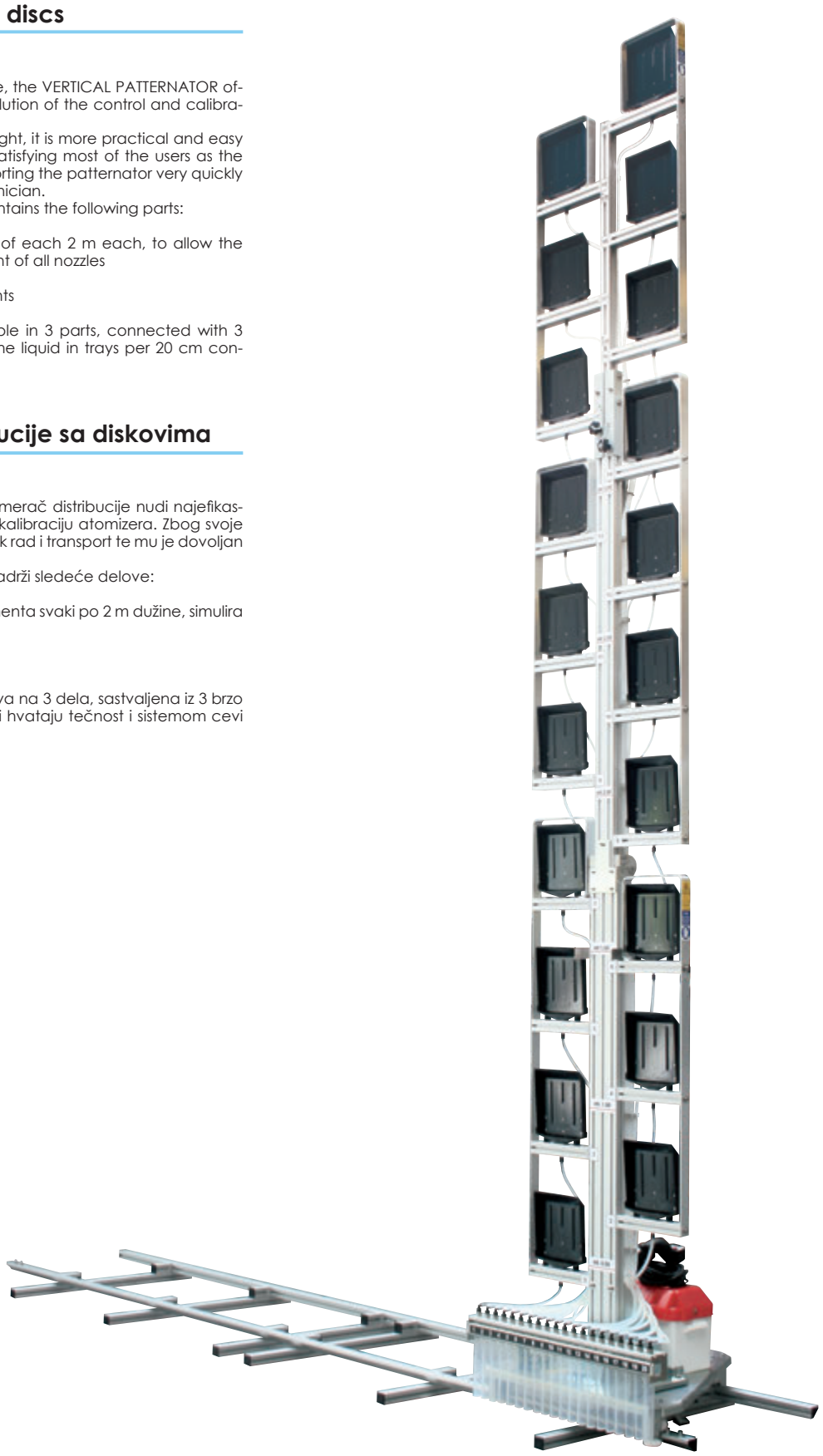
Za kontrolu i kalibraciju atomizera

Jak, pouzdan, i lak za upotrebu, vertikalni merač distribucije nudi najefikasnije i najekonomičnije rešenje za kontrolu i kalibraciju atomizera. Zbog svoje jednostavnosti i praktičnosti, omogućava lak rad i transport te mu je dovoljan jedan rukovaoc u radu.
Merač vertikalne distribucijesa diskovima, sadrži sledeće delove:

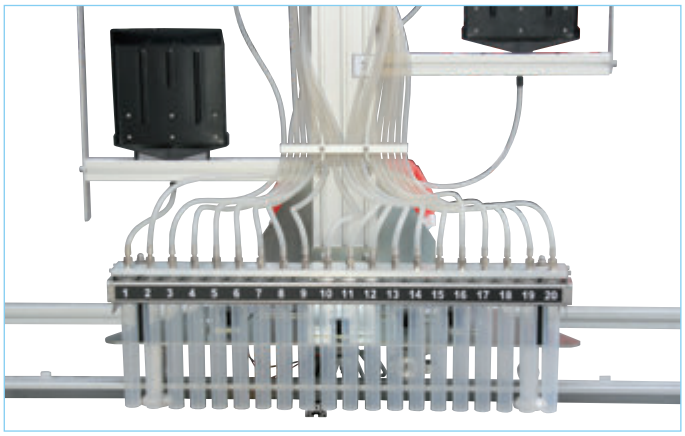
• Osnova u vidu šina, sastavljena od 2 segmenta svaki po 2 m dužine, simulira kretanje atomizera

• Čelična kolica, sa točkićima

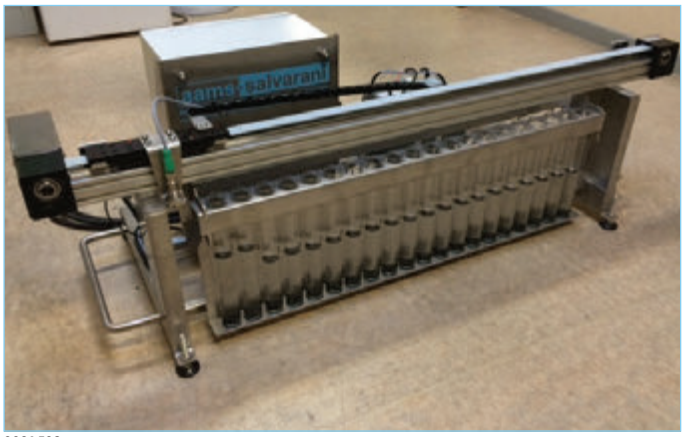
• Vertikalna konstrukcija visine 4.5 m, sklopiva na 3 dela, sastvaljena iz 3 brzo spojiva segmenta sa diskovima na sebi koji hvataju tečnost i sistemom cevi sprovode je u merne menzure od 100 ml.



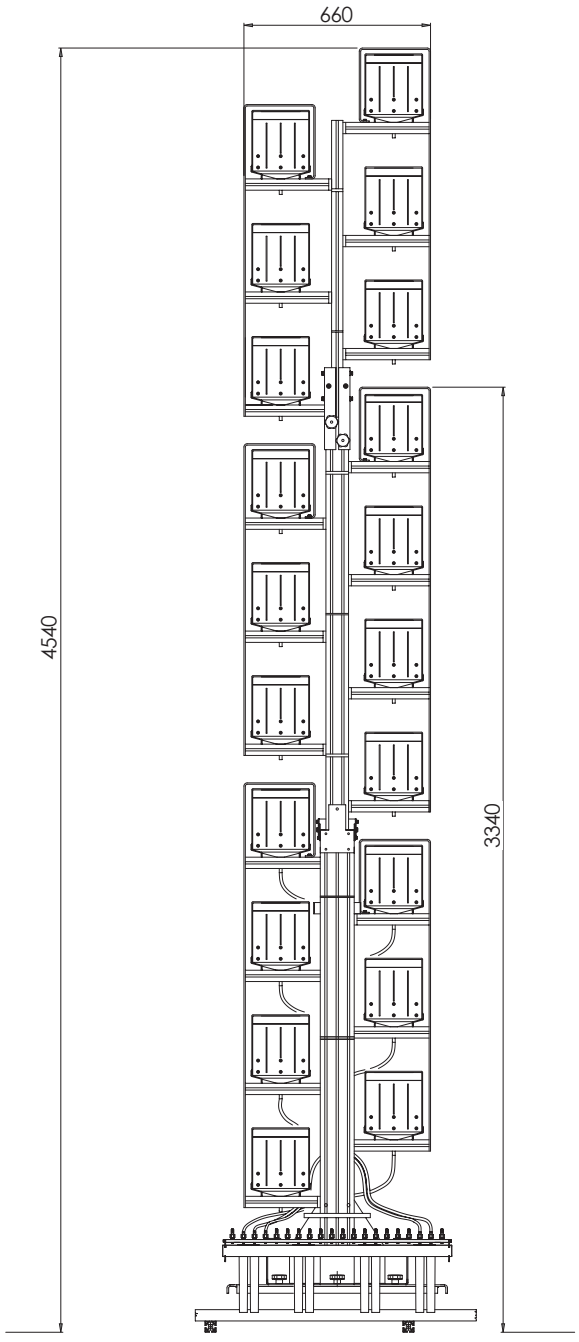
Code Šifra	Description	Opis	Height Visina (m)
904520 904530	Vertical patternator with discs 4 meter Vertical patternator with discs 3 meter	Vertikalni paternator sa diskovima visine 4 metra Vertikalni paternator sa diskovima visine 3 metra	4 3
904194 0081502	Measuring glasses kit Electronic reading unit incl software	Komplet mernih menzura Elektronska jedinica za očitavanje i softver	-

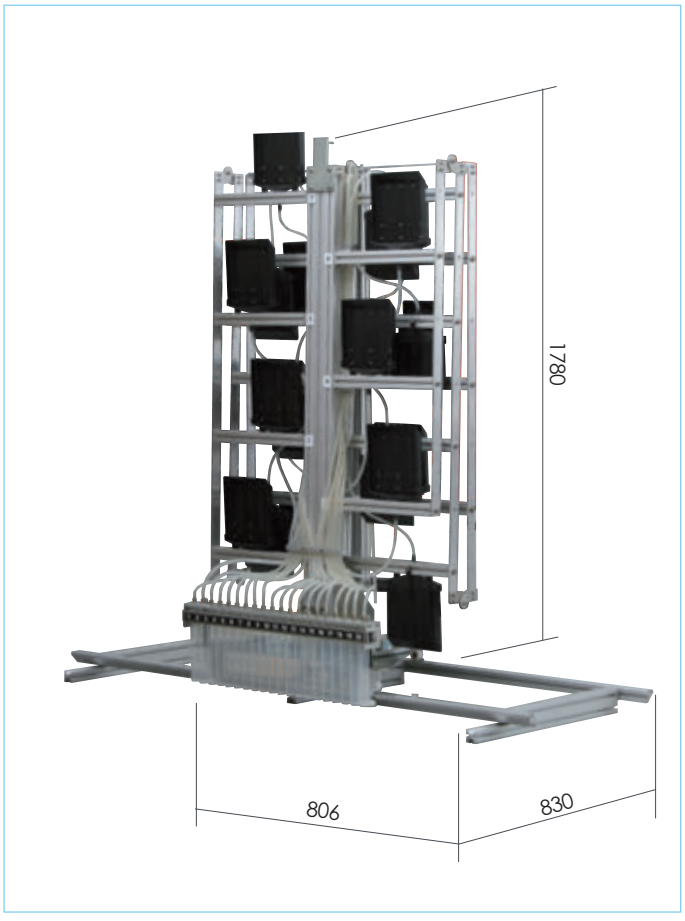


904194



0081502





Vertical Patternator

The AAMS vertical patternator is designed to measure the vertical liquid distribution of orchard and air-blast sprayers. The patternator is constructed with specially manufactured lamellae that allow the air to pass through and that filters the sprayed liquid out. The collected liquid between the lamellae is guided per 10 cm of height to a measuring glass. In case of the patternator with discs, the liquid is collected per 20 cm.

- The vertical patternator is produced in 2 versions: with lamellae with a single or with a double separation (picture 1) and a version with measuring discs (picture 2).
- The working height of the patternator can be selected in function of the height of the crop and/or type of tested sprayer (e.g. up to 2 m for vineyards and up to 4 m for apple and pear orchards). All heights between 2 and 4 m are standard available.
- Optionally, the measuring glasses can be equipped with electronic sensors to automate the registration of the content of the measuring glasses. With the software, a complete test report can be printed with the distribution before and after adjusting the sprayer.
- The vertical patternator can also be integrated on a trailer for a more mobile version.

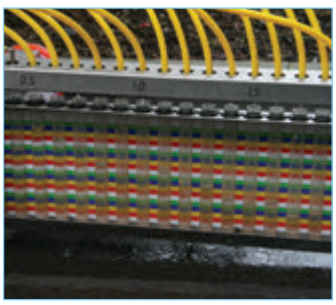
Merač vertikalne distribucije sa lamelama

AAMS-SALVARANI vertikalni paternator je namenjen za merenje vertikalne distribucije tečnosti voćarskih i prskalica sa vazdušnom podrškom. Merač je sastavljen od specijalno dizajniranih lamela koje omogućavaju prolaz vazduha i filtriranje isprskane tečnosti.
Tečnost koja se sakupi između lamela sprovodi se po visini 10 cm do merne menzure. Kod modela paternatora sa diskovima tečnost se sprovodi u dužini od 20 cm.

- Vertikalni paternator se proizvodi u 2 verzije: sa jednostruko i dvostruko savijenim lamelama i verzija sa diskovima
- Radna visina paternatora se može izabrati u zavisnosti od visine useva i tipa prskalice (npr. do 2 m za vinograde i do 4 m za zasade jabuke i kruške). Na raspolaganju su i sve standardne visine između 2 i 4 m.
- Opciono, merne menzure mogu biti opremljene elektronskim senzorom za automatsko očitavanje sadržaja sakupljene tečnosti. Pre i posle podešavanja prskalice pomoću softvera se može odštampati kompletan inspekcijski izveštaj.
- Za mobilnu verziju, vertikalni paternator se može postaviti na kolica.

Single bended lamellae
Jednostruko savijene lamele

Double bended lamellae
Dvostruko savijene lamele



0082301

0081501

Code Šifra	Description	Opis
0082000 0082113	Vertical patternator single bended lamellae 0.3-3.5 meter Vertical patternator double bended lamellae 0.3-3.5 meter	Vertikalni paternator sa jednostruko savijenim lamelama 0.3 – 3.5 m Vertikalni paternator sa dvostruko savijenim lamelama 0.3 – 3.5 m
0082301 0081501	Trailer for patternator Electronic reading unit incl software	Kolica za paternator Elektronska jedinica za čitanje, program uključen

Flow rate device

To define the flow rate of nozzles on air-blast or orchard sprayers (incl. pneumatic nozzles)

The AAMS mechanical measuring device, to define the flow rate of nozzles mounted on sprayers, is constructed with durable materials mounted on sprayers, is constructed with durable materials and is made compact for a straight forward transport. The device is equipped with quick fit couplings at which hoses connected to universal adapters can be fitted. The hoses guide the liquid from the nozzles into the measuring glasses.
• The glasses have a content of 2000 ml, 20 ml graduation, 1% precision.
• The inner frame has 3 positions:
a) to collect the liquid in the glasses
b) to read the content
c) to empy the glasses.
• The adaptors are universal and fit on all types of nozzle holders and caps.
• Adaptors for pneumatic sprayers are available in option.
• Under the measuring device, a collection container is in option provided to recuperate all sprayed liquid.

To measure the flow rate of mounted nozzles electronically

• Each measuring glass is equipped with electronic sensors that define the content with a precision of 0.25% (1 or 2L glasses and flow rate up to 6 L/min).
• Each measuring glass is opened and closed by an electronic valve that is steered from the PC to avoid run-over of the measuring glasses.
• With the complementary software, a complete inspection report can be accomplished and printed.

Merač protoka za atomizere

Utvrđuje protok pojedinih rasprskivača na atomizerima i prskalicama sa vazdušnom podrškom

AAMS-Salvarani mehanički merni uređaj, za definisanje protoka rasprskivača montiranih na prskalici, napravljen je od izdržljivih materijala i namenjen za transport u napred. Uređaj je opremljen brzim spojnicama na svakom crevu i može se konektovati na univerzalne adaptere. Crevima se sprovodi tečnost od rasprskivača do menzure.
• Menzure su sadržaja 2000 ml, graduisane po 20 ml, klase tačnosti 1%.
• Unitrašnji ram ima 3 pozicije:
a) za sakupljanje tečnosti u menzuru
b) za očitavanje sadrzaja
c) za pražnjenje menzura
• Adapteri su univerzalni i odgovaraju svim tipovima nosača i kapa rasprskivača.
• Adapteri za pneumetske prskalice su dostupni po porudžbini.
• Ispod mernog uređaja, opciono se može obezbediti rezervoar za sakupljanje i rekuperaciju celokupne isprskane tečnosti.

Merač protoka za atomizere - elektronski

• Svaka menzura je opremljenja elektronskim senzorima koji definišu sadržaj sa preciznošću od 0.25% (menzure od 1 ili 2L i protokom do 6 L/min)
• Svaka menzura se otvara i zatvara elektronskim ventilom koji se upravlja preko PC da bi se izbeglo prelivanje tečnosti iz menzure.
• Pomoću odgovarajućeg softvera može se dobiti i odštampati kompletan inspekcijski izveštaj

Code Šifra	Description	Opis	
0332999	8 glasses complete with adapters and hoses	Komplet od 8 menzura sa adapterima i crevima	8
0401698	16 glasses complete with adapters and hoses	Komplet od 16 menzura sa adapterima i cervima	16
0401705	20 glasses complete with adapters and hoses	Komplet od 20 menzura sa adapterima i cervima	20
0401499	8 glasses with adapters and hoses + container w/ recuperation pump	8 menzura sa adapterima i crevima + rezervoar/pumpa za rekuperaciju	8
0401699	16 glasses with adapters and hoses + container w/ recuperation pump	16 menzura sa adapterima i crevima + rezervoar/pumpa za rekuperaciju	16
0401708	20 glasses with adapters and hoses + container w/ recuperation pump	20 menzura sa adapterima i crevima + rezervoar/pumpa za rekuperaciju	20
0030300	Flow rate electronic 8 glasses complete	Elektronski komplet za merenje protoka sa 8 menzura	8
0030000	Flow rate electronic 16 glasses complete	Elektronski komplet za merenje protoka sa 16 menzura	16
0030200	Flow rate electronic 24 glasses complete	Elektronski komplet za merenje protoka sa 24 menzure	24
2006001	Calibration service for flow rate electronic	Kalibracijski servis za elektronski merač protoka	

Nozzle Tester S-monitor

For measuring the flow rate of nozzles mounted on a sprayer

The AAMS nozzle tester is a device that can define the flow rate of all types of nozzles mounted on sprayers with an accuracy of 1%. The AAMS nozzle tester is a hand held tool aimed at a fast and accurate control of the performance and wear of nozzles. The measurements can be used as well for calibration purposes.

• The nozzle tester has a precision of 1% from 0.10 l/min up to 10 l/min.

• The data of 10 sets of 100 nozzles can be stored in the memory of the monitor and can be transmitted to a PC.

• A measuring report of the nozzles or of a complete inspection can be accomplish on a PC with the complementary software.

• The monitor uses two 1.5V batteries, type AA.

• The nozzle tester is delivered in a handy case.

•A standard for mounting the measuring unit is available in option, to be able to measure the flow rate of the nozzles mounted on orchard or air-blast sprayers (not downwards oriented nozzles).

•Optionally, the nozzle tester can be equipped with a special adapter for measuring the flow rate of pneumatic spraying nozzles.

Ispitivač pojedinačnih raprskivača SOO1

Za merenje protoka rasprskivača montiranih na prskalici

AAMS-Salvarani ispitivač rasprskivača je uređaj kojim se definiše protok svih tipova rasprskivača montiranih na prskalici, sa klasom tačnosti 1%. AAMS-Salvarani ispitivač rasprskivača je ručni prenosni uređaj namenjen za brzu i preciznu kontrolu karakteristika i habanja rasprskivača. Merenje se može vršiti i u svrhu kalibracije.

• Preciznost uređaja je 1%, od 0.10 l/min do 10l/min.

• U memoriji monitora se može čuvati 10 setova podataka za 100 rasprskivača sa mogućnosti prebacivanja podataka na PC.

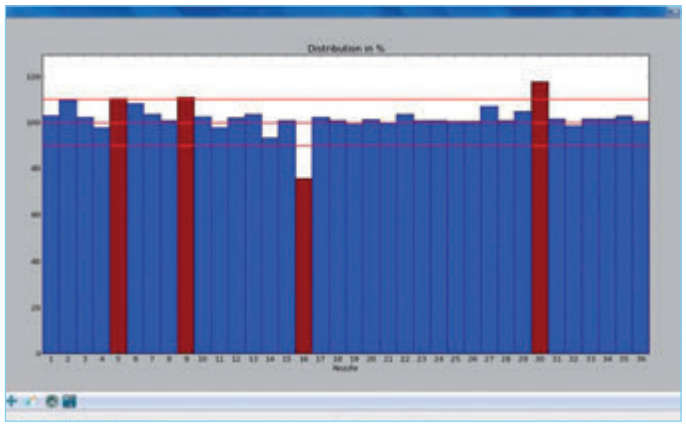
• Izveštaj o istpitivanju rasprskivača ili kompletne inspekcije može se pomoću odgovarajćeg softvera dobiti na PC

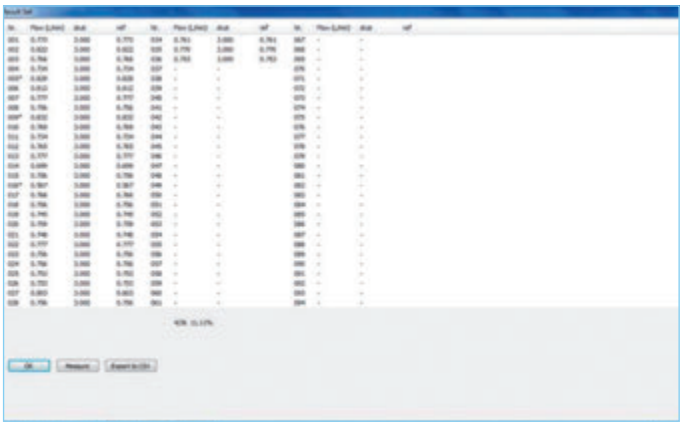
• Monitor koristi dve baterije od 1.5 V, tip AA.

• Uređaj se isporučuje u ručnom koferu.

• Standard za montažu mernih jedinica je opciono na raspolaganju, za merenje protoka rasprskivača montiranim na voćarskim prskalicama ili atomizerima (rasprskivači koji nisu orjentisani na dole).

• Opciono, uređaj se može opremiti specijalnim adapterom za merenje protoka na rasprskivačima sa vazdušnom podrškom.





Calibration service available
Kalibracijski servis dostupan

NEW

0660111

Code Šifra	Description	Opis	Q (l/min)
0660112	Nozzle Flowrate Handheld S001, field crop sprayer	Ručni merač protoka na rasprskivačima S001, za ratarske prskalice	0,1 - 0,45
0660111	Nozzle Flowrate Handheld S001, field crop sprayer	Ručni merač protoka na rasprskivačima S001, za ratarske prskalice	0,3 - 10
2001001	Calibration service for S001 nozzle tester	Kalibracijski servis za S001 ispitivač rasprskivača	

Nozzle Tester S-monitor for vertical nozzles

For measuring the flow rate of nozzles mounted on a sprayer

The AAMS nozzle tester is a device that can define the flow rate of all types of nozzles mounted on sprayers with an accuracy of 1%. The AAMS nozzle tester is a hand held tool aimed at a fast and accurate control of the performance and wear of nozzles. The measurements can be used as well for calibration purposes.

• The nozzle tester has a precision of 1% from 0.10 l/min up to 10 l/min.

• The data of 10 sets of 100 nozzles can be stored in the memory of the monitor and can be transmitted to a PC.

• A measuring report of the nozzles or of a complete inspection can be accomplish on a PC with the complementary software.

• The monitor uses two 1.5V batteries, type AA.

• The nozzle tester is delivered in a handy case.

•A standard for mounting the measuring unit is available in option, to be able to measure the flow rate of the nozzles mounted on orchard or air-blast sprayers (not downwards oriented nozzles).

•Optionally, the nozzle tester can be equipped with a special adapter for measuring the flow rate of pneumatic spraying nozzles.

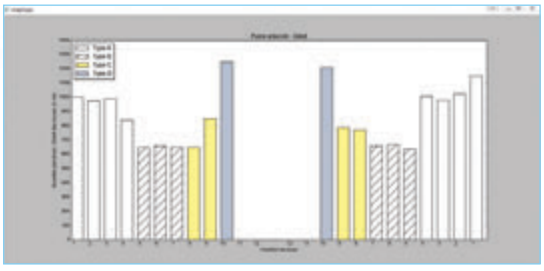
Ispitivač pojedinačnih rasprskivača S – monitor za vertikalne rasprskivače

Za merenje protoka rasprskivača montiranih na prskalici

AAMS-Salvarani ispitivač rasprskivača je uređaj kojim se definiše protok svih tipova rasprskivača montiranih na prskalici, sa klasom tačnosti 1%. AAMS-Salvarani ispitivač rasprskivača je ručni prenosni uređaj namenjen za brzu i preciznu kontrolu karakteristika i habanja rasprskivača. Merenje se može vršiti i u svrhu kalibracije.

• Preciznost uređaja je 1%, od 0.10 l/min do 10l/min.
• U memoriji monitora se može čuvati 10 setova podataka za 100 rasprskivača sa mogućnosti prebacivanja podataka na PC.
• Izveštaj o istpitivanju rasprskivača ili kompletne inspekcije može se pomoću odgovarajćeg softvera dobiti na PC
• Monitor koristi dve baterije od 1.5 V, tip AA.
• Uređaj se isporučuje u ručnom koferu.
• Standard za montažu mernih jedinica je opciono na raspolaganju, za merenje protoka rasprskivača montiranim na voćarskim prskalicama ili atomizerima (rasprskivači koji nisu orjentisani na dole).
• Opciono, uređaj se može opremiti specijalnim adapterom za merenje protoka na rasprskivačima sa vazdušnom podrškom.

0242000



0242000

0660117

0660117

Code Šifra	Description	Opis	Q (l/min)
0660109 0660110	Extension kit for ugrading 0660111 into 0660117 Extension kit for ugrading 0660111 into 0242000	Komplet za nadogradnju 0660111 u 0660117 Komplet za nadogradnju 0660111 u 0242000	
0660117 0242000	Nozzle flowrate S001, support + silicone hose + hand adapter Nozzle flowrate S001, support + 8 adapters + 8 spiral hoses	Merač protoka S001, stalak + silikonsko crevo + ručni adapterima Merač protoka S001, stalak + 8 adaptera + 8 spiralnih creva	0,3 - 10

Spray Gun Test Unit

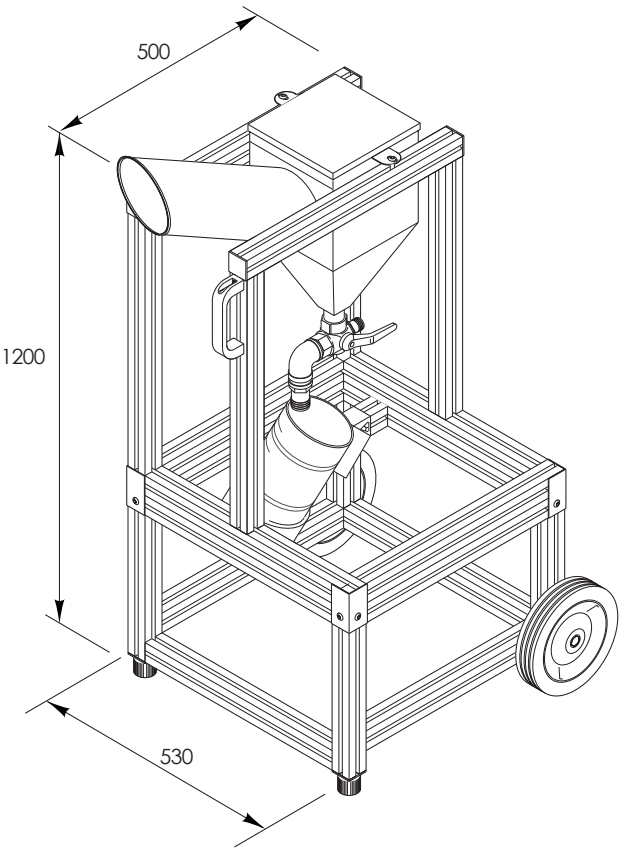
A testing unit for spraying guns that are normally used in greenhouses or open field. Designed to be easy portable and divisible for application difficult to enter.

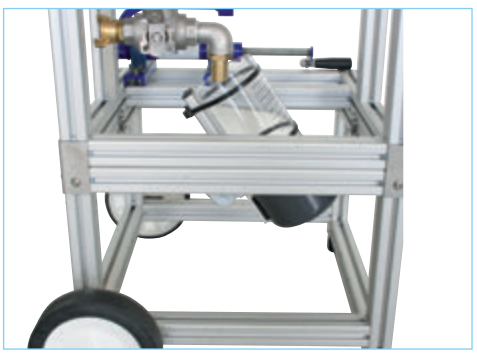
That bench consists of a pressure damper tube where you insert the gun and an expansion chamber used to get the liquid pressure to zero and collect the liquid itself.

A measuring glass is included to measure the sprayed amount.

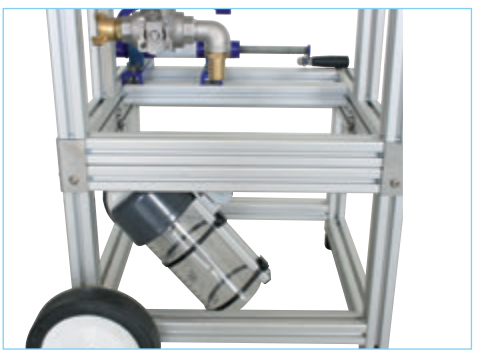
Ispitivač leđnih prskalica

Uređaj za testiranje leđnih prskalica koji se obično koristi u zaštićenom prostoru ili na otvorenom polju. Dizajniran je tako da bude lako prenosiv, rasklopiv i samim tim pogodan za upotrebu na teško dostupnim mestima.
Ispitni sto se sastoji od cevi sa ublaživačem pritiska u koji se postavlja pištolj (cev sa rasprskivačem) i ekspanzione komore koja se koristi za oslobađanje od pritiska i sakupljanje isprskane tečnosti.
U okviru uređaja nalazi se menzura za sakupljanje i merenje isprskane količine tečnosti.





Collecting phase — Faza sakupljanja tečnosti



Emptying phase — Faza pražnjenja tečnosti

Code Šifra	Description	Opis
0489998	Spraygun tester mechanic, tube 130 mm up to 15 l/min, ø 130 mm	Mehanički ispitivač leđnih prskalica, cev 130 mm, do 15 l/min, ø 130 mm

Integrated Software for the Sprayer Inspection

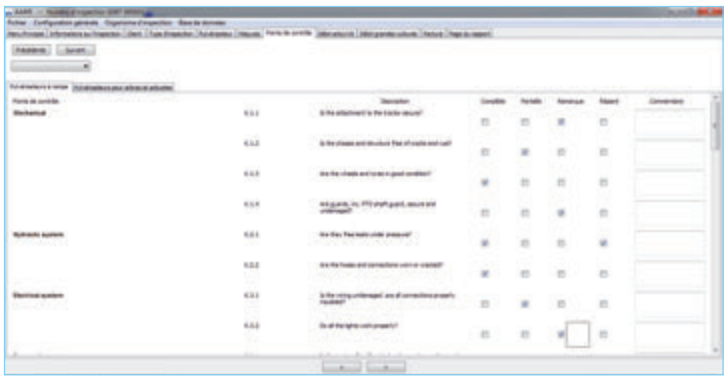
Description of software 3.6
The software for the test stations will allow to integrate all technical and administrative aspects of the inspection of sprayers following EN13790.

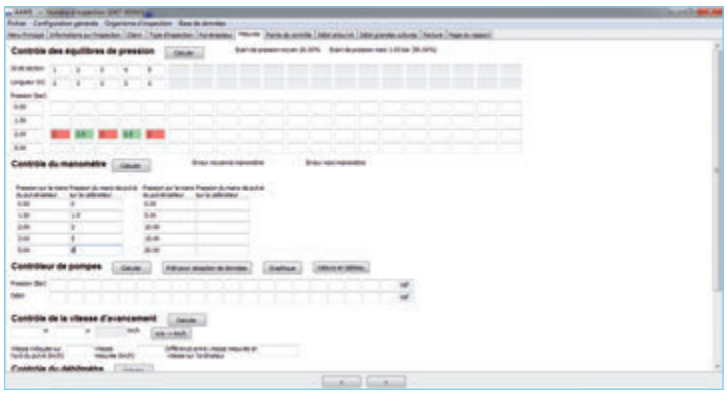
The software is built around a database on one hand for data registration and on the other hand on protocols on which manually or automatically measured values with inspection tools/ equipments are entered. Decisions are taken based on these measurements to evaluate the sprayer. The degree of the decision (category of defect can be adapted following the National prescriptions. A second group of criteria based on visual observation is also integrated and can be graded in a similar way.

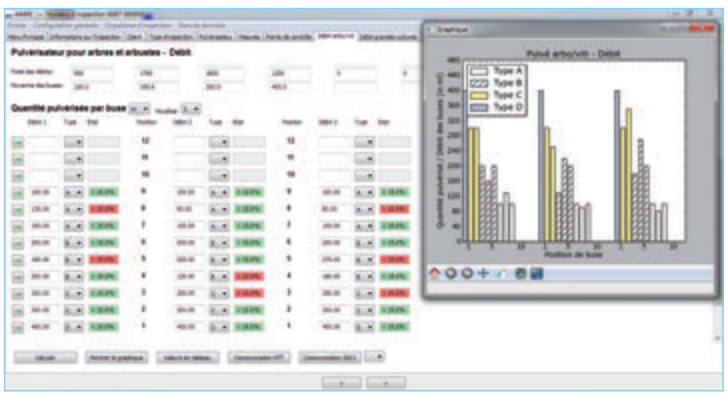
For every inspections site, a unique database is created with interchangeable data export and merging functions.
With the exporting function, the data can be exported to a general supervising body so that all data can be merged in one central database. The data being exported can be general data, technical data or individual data. The exports can be selected on time base or not yet exported base.
With merging function, data from other inspection stations can be entered to be able to create a wider data base.

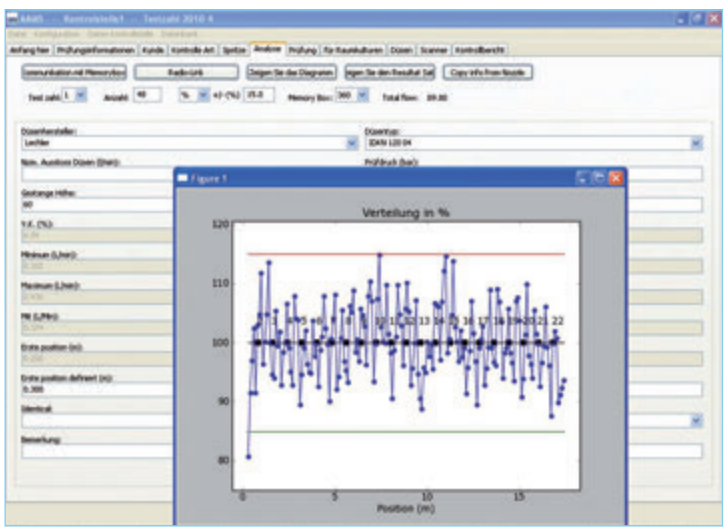
The software has the possibility to re-use the previous data entered to do a re-inspection or to do a new inspection in the following cycle.

The software has following possibilities and options integrated:
• Data of the inspection station Name, address, phone, mail, approval number, inspectors data..
• Data of the inspection location Name, address, phone,
• Calibration data of the tools used with a historic data over time
• Data of the farmer being inspected
• Data of the sprayer being inspected
• Data of measured values Pressure equilibrium and evaluation
• Tested working manometer evaluation
• Pump data and evaluation
• Spray controller data evaluation
• Liquid distribution of the field crop sprayer
• Flow rate date of the nozzles
• Field crop
• Orchard sprayers
• Data of visual inspection
• Protocols based on EN13790 part 1 and 2
• Based on the selection of type of sprayer the protocol will be adapted for field crop or orchard sprayers
• Reporting
• Report of a 1st inspections
• Adapted report in 2nd inspections (in case of not being accepted at 1st attempt).









Softver za ispitivanje prskalica - na srpskom jeziku

Opis softvera verzija 3.6
Softver za stanice za ispitivanje mašina u zaštiti bilja, omogućava obuhvatanje svih tehničkih i administrativnih aspekata za inspekciju prskalica prema EN13790.

Softver je obuhvata osnovnu bazu podataka o korisnicima s jedne strane, a s druge strane obrađuje izmerene parametre (ručno ili automatski) pomoću opreme za testiranje mašina u zaštiti bilja. Na osnovu obrade podataka donosi se odluke za ocenu prskalica. Stepen odlučivanja (uočeni problemi na mašini) može se prilagoditi Nacionalnim propisima. Druga grupa kriterijuma koja se odnosi na vizuelni pregled je takođe integrisana i može da se ocenjuje na sličan način.

Za svaku obavljenu inspekciju, kreira se jedinstveni izveštaj sa izmenjivim izlaznim podacima i funkcijom spajanja podataka u centralnoj bazi podataka.
• Sa funkcijom slanja podataka, podaci se mogu proslediti višem nadzornom organu tako da se svi podaci mogu spojiti u jednu centralnu bazu podataka. Podaci koji se prosleđuju mogu biti opšti, tehnički ili pojedinačni. Izlazni podaci za slanje mogu se izabrati prema vremenu kreiranja u bazi ili prema tome da još nisu prosleđeni iz baze ka centralnoj bazi podataka.
• Sa funkcijom razmenjivanja podataka, omogućava se unos podataka iz drugih inspekcijskih stanica radi proširenja baze podataka i onemogućivanja zloupotreba.
Softver ima mogućnost korišćenja prethodno unetih podatake za ponovno testiranje ili za novu inspekciju u sledećem ciklusu.

Softver ima sledeće mogućnosti i ugrađene opcije:
• podatke o inspekcijskoj stanici (naziv, adresa, telefon, E-mail, broj odobrenja, datum ispitivanja...)
• podatke o lokacijama na kojima su vršena ispitivanja (naziv, adresa, telefon...)
• podaci o kalibraciji instrumenata sa istorijskim podacima koji su se koristili tokom vremena
• podaci o korisniku čija se oprema ispituje
• podaci o prskalici koja se testira
• podaci o mernim vrednostima (hidraulična ravnoteža i ocena pritiska, ocena testiranog radnog manometra, podaci o pumpi i njena ocena kvaliteta rada, procena podataka o razvodniku prskalice, kvalitet distribucije tečnosti na ratarskoj prskalici, protok na rasprskivačima, kao i podaci o vizuelnoj inspekciji (eventualno curenje creva, rezervora.....
protokoli na bazi standarda EN13790 deo 1 i 2
• na osnovu odabira vrste prskalice protokol se prilagođava ratarskim prskalicama ili atomizerima u voćarskoj proizvodnji
• Razni izveštaji (izveštaj prve inspekcije uređaja, izveštaj o odbijanju...)

Integrated Software for the Sprayer Inspection

Description of software 1.4 and 2.7

This software will allow supervising bodies to validate and verify the inspections done by the individual test stations.

It will have a merging function to integrate all the individual databases into one central database.

It will be able to track all inspections entered and check validation of the inspections
• Based on the entered data
• Calibration history of the test station

With the query functions, it will be able to execute all kind of statistical analyses as f.ex:
• Number of executed inspections on daily, weekly, monthly, yearly basis
• Number of inspections by postal code, region
• Number of sprayers details
- Type
- Age
- Working width
- Number of sections
- Tank content
- Brand
....
• Number of defects
- Per categories of defects
- Number of re-inspections
- Results of re-inspections
....

The queries can be created by the operators as some simple query creator is integrated.

This central database software will allow the supervising bodies to report to the different authorities about the status, evolution and results of the inspections of sprayers executed so far by region or country wise.

Softver za ispitivanje prskalica - na srpskom jeziku

Opis softvera verzija 1.4 i 2.7

Ovaj softver omogućava Centralnim laboratorijama (nadzornim organima) proveru i verifikaciju testiranja koje su izvršile pojedinačne inspekcijske stanice.

Ima funkciju spajanja za objedinjavanje pojedinačnih baza podataka u jednu centralnu bazu podataka.

Postoji mogućnost praćenja svih unetih testiranja i proveru validnosti testitanja.
• na osnovu unetih podataka
• istorije kallibracije ispitne stanice

Sa upitnim funkcijama, omogućava se izvršenje svih vrsta statističkih analiza kao npr.:
• broj izvršenih funkcija na dnevnom, nedeljnom, mesečnom, godišnjem nivou
• broj izvršenih testiranja po poštanskom boju, regionu
• broj detalja o prskalici
- tip
- godina proizvodnje
- radni zahvat
- broj sekcija
- kapacitet rezervoara
- proizvođač i model....

• Broj nedostataka
- prema kategoriji defekta
- broj naknadnih ponovljenih ispitivanja sa njihovim rezultatima
-...

Upiti/izveštaji mogu biti kreirani od strane operatera u zavisnosti od njegovih želja i potreba.

Ovaj softver centralne baze podataka omogućava nadzornim organima da izveštavaju različite državne organe o statusu, napredovanju i rezultatima inspekcija mašina za zaštitu bilja koji je do sada izvršen u zemlji ili određenom regionu.

Code Šifra	Description	Opis
0970002 0970051	Inspection software complete Management software (1.4/2.7)	Kompletan softver za ispitivanje Softver za upravljanje (1.4/2.7)

Demo Unit

This demo unit represents an important tool to check and show the main characteristics of spray tips.

It is suggested in trade exhibitions and at dealer points to show tip's different pattern and relating features from real in the best clear and easy way; in combination with adjustment accessories such as a calibration container or a tip tester, the demo unit helps to show the spray tip wear... Because nothing can be more realistic!

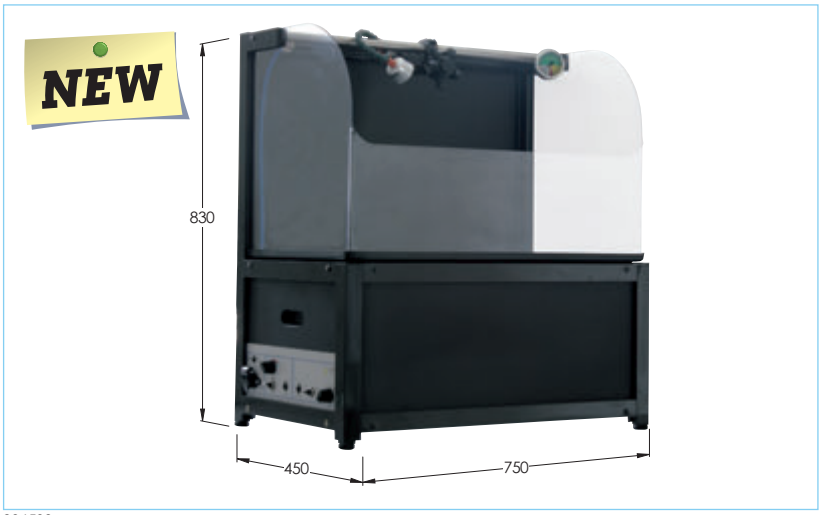
The demo unit is composed of: aluminum frame, plastic collecting tank with walls to avoid drift, 12VDC membrane pump, pressure regulating valve and a glycering manometer, Stainless steel tube with TeeJet QJ365 nozzle-body, 12VDC battery and recharge unit included, one hour lasting.

Demo jedinica za prikaz rada rasprskivača

Demo jedinica je veoma važan alat za proveru i prikazivanje glavnih karakteristika rasprskivača.

Oprema je pogodna za demonstraciju na sajmovima i kod distributera opreme za prikazivanje rada različitih rasprskivača i stvarnih karakteristika na najjasniji i lak način, u kombinaciji sa podešavanjima opreme kao što je kalibracioni kontejner ili tester rasprskivača. Demo jedinica pomaže da se prikaže habanje vrha rasprskivača... Jer nista ne može biti realnije od toga!

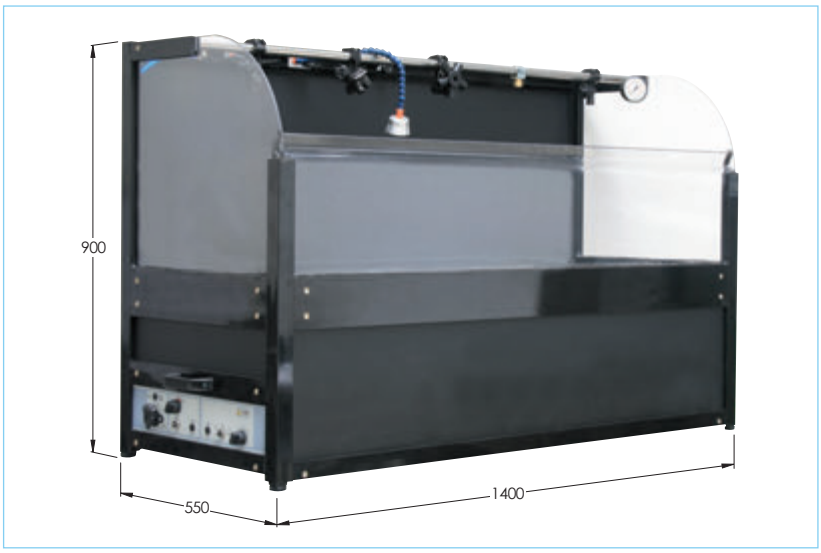
Demo jedinica se sastoji od: aluminijumskog rama, plastičnog sabirnog rezervoara sa zidovima za eliminisanje drifta, membranske pumpe od 12 V, regulacionog ventila pritiska i glicerinskog manometra , cevi od nerđajućeg čelika sa TeeJet QJ365 telom rasprskivača, baterije od 12 V sa punjačem, trajanje baterije 1 sat.



906503


Control Panel Kontrolna tabla

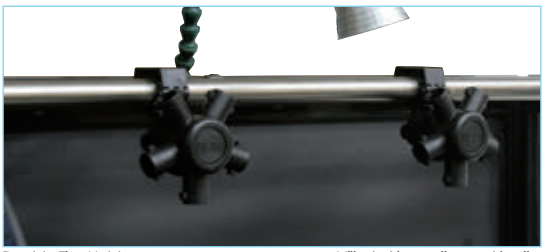

New Tank Nov rezervoar



906511


Strobo Lamp Stroboskopska lampa


Tip holder Nosač rasprskivača


Double Tips Holder Višestruki nosač rasprskivača

Code Šifra	V	A max
906508	12	10
906516	12	15


906508


906516

Code Šifra	Description	Opis	Q (l/min)	MAX (bar)	
906503	Demo Unit 75x46x80	Demo jedinica 75x46x80	6,0	7	1
906517	Demo Unit 75x46x80 HP	Demo jedinica 75x46x80 HP	6,3	10	1
906557	Demo Unit 75x46x80 HP - 2 tips holders	Demo jedinica 75x46x80 HP – 2 nosača rasprskivača	6,3	10	2
906511	Demo Unit 140x55x90	Demo jedinica 140x55x90	6,0	7	5

Demo Sprayer

"A new sprayer for educational and demonstration purposes of trainers and advisory services has been developed by AAMS"

This demo sprayer can firstly be used to show the normal functions of a sprayer. Secondly, the sprayer can be equipped with a continuous cleaning kit to simulate different cleaning procedures. Thirdly, it is small and easy to transport. Read on to learn more about this new demo sprayer!

The sprayer is built in a way that all normal functions of a sprayer can be shown (pressure regulation, shut off/on, section valves with adjustable return and manual proportional valve, hydraulic agitation ...). The sprayer is equipped with an 220 V electric driven pump with a capacity of 20 l/min at a maximum pressure of 20 bar (in option, a 12 V pump is available).

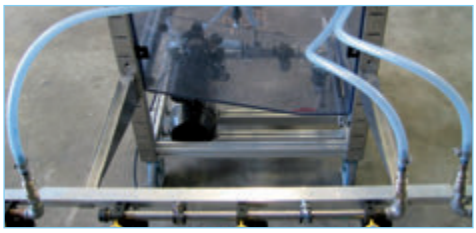
The height of the spray boom can be changed in different steps. This allows a simulation of the effect of spray boom heights for different nozzles and pressures.
The spray boom is mounted at a certain distance from the frame so that a small patternator can be used under the boom to collect all the liquid.
The spray boom has 11 nozzle bodies, separated in 3 sections. It is designed in order to simulate different cases. Nozzle bodies are placed 25 cm from each other and have possibilities to carry up to 5 nozzles on each body. All nozzles can individually be turned off. The sections are connected in such a way that when a distribution under a spray boom is simulated, the same number of nozzles is active under the boom. These inter distances allow us to show the effect of end-nozzles on the distribution under a boom (as well at 50 cm as at 75 cm from next normal nozzle).

We have chosen to work with a transparent tank and the sprayer is built around it. The transparency of the tank has been especially chosen to show the effect of cleaning in the tank and the transparent tubes during the action. So all spectators can follow all the internal actions in the tank. In order to avoid any leaks of the tank, the walls are bent to its shape and welded with a special technique. The tank has a total content of +/- 55 litres.

In option, the sprayer is equipped with an extra cleaning kit that can be used to demonstrate different cleaning procedures as using clean water tank content in 1 time, 3 or 4 times and continuous cleaning. For this last option, the extra pump (12V) is adapted to the size of the sprayer and all nozzles should be active to show the effect. Samples can be taken and shown at the audience during the different cleaning procedures.

We would like to end with some general information and useful figures. All parts used are of aluminium or stainless steel to reduce maintenance and guarantee a long life time.

To make it handy, it is build as light and compact as possible (weighs empty less than 35 kg). It has 4 large swivelling wheels with double brake to move it (even in working conditions). The cleaning kit can be dismounted for transport. All commands etc are built within the main frame to avoid damage during transport. The transport dimensions of the sprayer are less than 80 cm width, 60 cm depth and 100 cm height. The transport dimensions of the optional cleaning kit are 85 cm by 30 cm by 53 cm.



Demo prskalica

Novi AAMS-Salvarani proizvod koji se koristiti u edukativne svrhe i demonstraciju.

Ovaj demo uređaj se prvenstveno koristi za prikaz rada osnovnih funkcija prskalice i može se opremiti kompletom za pranje prskalice kako bi se prikazali različiti načini čišćenja. Prskalica je mala i laka za transport. U nastavku teksta možete saznati više detalja o novoj demo prskalici!

Prskalica je tako konstruisana da se mogu prikazati sve osnovne funkcije prskalice (regulacija pritiska, uljkučivanje/isključivanje ventila sekcije sa podešavanjem povratnog voda i ručnog proporcionalnog ventila, hidraulički mešač itd.). Prskalica ima pumpu sa električnim pogonom 220 V, kapaciteta 20 l/min pri max pritisku od 20 bar (opciono, pumpa može biti i od 12 V).

Visina prskajućih krila se može podešavati skokovito na nekoliko različitih visina što omogućava simulaciju efekta prskanja pri upotrebi različitih tipova rasprskivača i radnog pritiska. Prskalica je montirana centralno u odnosu na ramsku konstrukciju tako da se ispod nje može postaviti mali paternator za prikupljanje tečnosti.

Na prskalici se nalazi 11 nosača rasprskivača podeljenih u 3 sekcije. Dizajnirana je tako da simulira rad u različitim situacijama. Nosači su postavljeni na rastojanju od 25 cm i na svakom od njih se može postaviti 5 rasprskivača. Svaki rasprskivač se može pojedinačno isključiti. Sekcije su povezane tako da se aktivira isti broj rasprskivača na svakoj sekciji pri simulaciji poprečne distribucije ispod krila prskalice. Ovo međusobno rastojanje između nosača omogućava prikaz efekta prskanja krajnjih rasprskivača na sekciji (na 50 i 75 cm između rasprskivača).

Rezervoar prskalice je centralno pozicioniran i providan, kako bi se bolje prikazao efekat čišćenja a posmatrači mogli da prate ceo proces koji se odvija u unutrašnjosti. Da bi se izbegla bilo kakva curenja na rezervoaru, zidovi su oblikovani i zavareni posebnom tehnikom. Kapacitet rezervoara je +/- 55 litara.

Opciono, prskalica se može opremiti dodatnim kompletom za čišćenje koji se može koristiti za demonstraciju različitih načina pranja rezervoara kao što je pranje čistom vodom u jednom, 3 ili 4 prohoda i kontinualno ispiranje rezervoara. Kod kontinualnog ispiranja, dodatna pumpa (12 V) se adaptira prema veličini prskalice i svi rasprskivači treba da budu uključeni kako bi se prikazao ovaj efekat. U toku različitih procedura čišćenja može se izvršiti uzorkovanje i rezultati prikazati posmatračima.

Opšte informacije o proizvodu: Svi delovi su izrađeni od aluminijuma ili nerđajućeg čelika za lakše i jednostavnije održavanje i produžetak veka trajanja.

Zbog mobilnosti uređaja, konstrukcija je što je moguće lakša i kompaktnija (težina prazne prskalice je manja od 35 kg). 4 velika točka sa duplim kočnicama služe za premeštanje uređaja (čak i u toku rada). Sve komande su smeštene u okviru glavne ramske konstrukcije kako bi se izbegla oštećenja u toku transporta. Transportne dimenzije prskalice su manje od 80 cm x 60 cm x 100 cm visine. Transportne dimenzije kompleta za čišćenje su 85 cm x 30 cm x 53 cm.

Code Šifra	Description	Opis
0072000	Demo sprayer, with 220V pump 20l/min 20 bar	Demo prskalica, sa pumpom 220V, 20 l/min, 20 bar

Spare parts

Rezervni delovi i oprema

Davis Windscribe Ultrasonic Wind Meter

Ultrasonic wind meter uses patented technology to read current wind speed, highest positive speed (headwind), lowest negative speed (tailwind), 5-second average, and running average. Select from mph, km/h, fpm, m/s, f/s, or knots, plus temperature and wind chill in tenths of °F or °C. Sensitive to breezes as low as 0.4 mph, yet withstands winds as high as 150 mph. Includes replaceable 3-volt lithium battery. Battery lasts up to 600 hours. Dimensions: 5" × 3" × 3/4" (12.7 × 7.6 × 1.9 cm). Weight: 31/2 oz (100 grams).

Ultrazvučni anemometar Davis Windscribe

Ultrazvučni anemometar koristi savremenu tehnologiju za merenje trenutne brzine vetra, najveće pozitivne brzine (headwind), najniže negativne brzine (tailwind), prosečne brzine vetra svakih 5 sekundi i trenutne prosečne vrednosti. Merne jedinice u kojima se može očitati brzina vetra su: mph, km/h, fpm, m/s, f/s ili čvor, dok se temperatura okolnog vazduha i wind chill meri u desetinama °F ili °C. Osetljivost instrumenta počev od blagih vetrova od 0.4 mph do jakih udarnih vetrova od 150 mph. Napajanje: litijumska baterija 3V, vek trajanja baterije do 600 radnih sati. Dimenzije: 5" x 3" x ¾" (12.7 x 7.6 x 1.9 cm). Masa: 31/2 oz (100 gr).

Code Šifra	Description	Opis
DW-276	Anemometer	Ultrazvučni anemometar

Nitrile Gloves

High protection against chemicals, acids, oils and detergents.

Zaštitne rukavice

Zaštitne rukavice otporne na hemikalije, kiseline, ulja i deterdžente.

Code Šifra	Description	Opis
0888010	Nitrile gloves, size 10 (XL)	Zaštitne rukavice, veličina 10 (XL)

Calibration Container & Tip Cleaning Brush

The calibration container features a 2 liters capacity and a raised dual scale in both US and metric gratuations. The container is molded of polypropylene for excellent chemical resistance and durability.

Menzura za kalibraciju i četkica za čišćenje rasprskivača

Menzura za kalibraciju zapremine 2 l sa dvostrukom skalom, sa metričkom i US graduacijom. Napravljena od polipropilena što je čini dugotrajnom i otpornom na agresivne hemikalije.

Code Šifra	Description	Opis
0222280 0222003	Measuring beaker Brush for cleaning nozzles	Posuda za merenje (menzura) Četkica za čišćenje rasprskivača

Water Sensitive paper

These specially coated papers are used for evaluating spray distributions, swath widths, droplet densities and penetration of spray. Water sensitive paper is yellow and is stained blue by exposure to aqueous spray droplets.

Vodoosetljivi papir

Ovaj specijalno dizajniran papir koristi se za procenu distribucije, širine mlaza, gustine kapljica i prodiranja isprskane tečnosti. Vodoosetljivi papir je zute boje a kada se izloži kapljicama postaje plav.

Code Šifra	Description	Opis
0555033	Water Sensitive Paper, 26 x 76 mm, 50 pieces/pack	Vodoosetljivi papir, 26 x 76 mm, 50 kom u pakovanju

Fertilizer Trays and Inserts

The AAMS fertiliser trays and inserts for fertiliser spreaders are packed per 7 units including measuring glasses and a funnel for a fast evaluation of the fertiliser distribution on the field. The trays are placed on the field at certain distances, perpendicular to the driving direction. By spreading 3 swaths (middle one and two neighbouring swaths) over the trays, the distribution in the field can be easily checked by pouring the kernels in the measuring glasses. For more precise characterisation of the spreading patterns, more trays can be positioned closer to each other along the measuring line and the content can be weighted.

• The trays have a dimension of 50 cm by 50 cm and are conform the European Standard EN13739 (European Standard for distribution measurements of fertiliser spreaders).

• The trays are equipped with inserts to avoid bouncing back of the fertilisers.

• For every tray, a measuring glass is delivered to define the spreaded amount of fertiliser. The 7 glasses can be placed in a rack to compare the content. The fertilisers are poured in the glasses with the complimentary funnel.

• All parts are produced in a robust plastic to guarantee a long lifetime.

• The trays can also be used for solid organic fertilisers or other materials (as salt spreaders).

• The trays fit in each other to ease the storage and transport.

• A hardness meter is available to check the spreading quality of the fertilisers

Kontejneri za đubrivo sa pregradama

Komplet sa AAMS-Salvarani kontejnerom za đubrivo sastoji se od 7 elemenata, uključujući merne menzure i levak za bržu raspodelu đubriva na terenu. Kontejneri se na terenu postavljaju na tačno definisanom rastojanju upravno na pravac kretanja traktorskog agregata. Rasipanjem đubriva i prelaskom preko kontejnera u 3 prohoda (jedan središnji i dva susedna), može se lako proveriti distribucija rasutog đubriva na polju. Za dobijanje preciznije karakteristike raspodele đubriva, kontejnere treba postaviti na manjem rastojanju duž mernog prohoda, a zatim izmeriti sadržaj u njima.

• Dimenzije kontejnera su 50 x 50 cm i zadovoljavaju Evropski standard EN13739 (Evropski Standard za merenje distribucije i širine rasipanja đubriva).

• Kontejneri su sa pregradama kako bi se izbeglo poskakivanje i prosipanje đubriva.

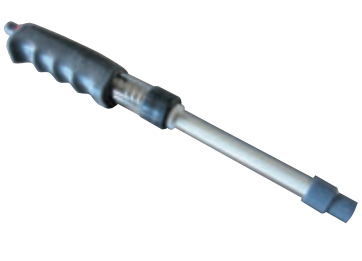
• Uz svaki kontejner isporučuje se menzura za određivanje rasute količine đubriva. Na postolje se može postaviti 7 menzura za poređenje sadržaja. Đubrivo se sipa u menzure odgovarajućim levkom.

• Svi delovi su izrađeni od kvalitetne plastike čime je produžen vek trajanja kontejnera.

• Takođe, kontejneri se mogu koristiti za čvrsta organska đubriva i druge materijale.

• Zbog lakšeg pakovanja i transporta, kontejneri se uklapaju jedan u drugi.

• Opciono, može se isporučiti metar za proveru kvaliteta rasipanja đubriva.



Code Šifra	Description	Opis
904550	Trays for fertiliser spreader testing, 5 trays, inserts and glasses, 1 funnel	Kontejner za kontrolu rasipanja đubriva, 5 kontejnera, pregrede i menzure, 1 levak
904551	Trays for fertiliser spreader testing, 7 trays, inserts and glasses, 1 funnel	Kontejner za kontrolu rasipanja đubriva, 7 kontejnera, pregrede i menzure, 1 levak
0777009	Hardness tester for fertiliser kernels	Tester za granulisano đubrivo
0777008	Fertiliser calibrator (4 classes)	Kalibrator đubriva (4 menzure)

Slurry Distribution Measurement

AAMS develops specific measurement systems, e.g. to determine the distribution of slurry for several types of slurry injectors. The measuring systems are universal and can be used on most devices. Depending on the available budget, the measurement bancs can be automated.

• To measure the distribution of slurry, a mechanic (photo 1) and an electronic (photo 2) measurement system were developed.

• To measure, the injectors are positioned as during a real application in order to simulate the field conditions as much as possible.

• The slurry runs into the gutters on a natural way through the injector elements. The slurry can be re-used / recycled.

• The shut-off valves of the injector elements are actuated by a special constructed soil surface support.

• The collected liquid is weighed in containers (1) or on-line registered while passing a measuring pipe (2).

Merenje distribucije stajnjaka

AAMS-SALVARANI je razvio specijalni sistem merenja za određivanje distribucije tečnog stajnjaka za nekoliko tipova injektora. Sistem za merenje je univerzalan i može se koristiti na većini uređaja.

• Za merenje distribucije stajnjaka razvijena su dva tipa uređaja: mehanički (slika 1) i elektronski (slika 2).

• Stajnjak ulazi u žljebove prirodnim putem kroz injektorske elemente i može se ponovo koristiti / reciklirati.

• Za isključivanje ventila injektorskih elemenata aktivira se specijalno konstruisana površinska podrška.

• Sakupljena tečnost meri se u kontejnerima (1) ili se trenutno registruje dok prolazi kroz mernu slavinu (2).

Code Šifra	Description Opis	Picture ref. Slika broj
0778001	Mechanical system for flow distribution measurement of slurry injectors Mehanički sistem za merenje distribucije tečnog stajnjaka injektorima	1
0779001	Electronical system for flow distribution measurement of slurry injectors Elektronski sistem za merenje distribucije tečnog stajnjaka injektorima	2

Useful Formulas Korisne formule

$$\text{l/min (for nozzle) (po rasprskivaču)} = \frac{\text{l/ha x km/h x L}}{\text{60'000}}$$

$$\text{l/ha} = \frac{\text{60'000 x l/min}}{\text{km/h x L}}$$

L = distance between nozzles, in cm
L = rastojanje između rasprskivača u cm

$$\text{Speed Brzina (km/h)} = \frac{\text{Distance Rastojanje (m) x 3,6}}{\text{Time Vreme (s)}}$$

Sledeća formula može biti upotrebljena za podešavanje vrednosti protoka rasprskivača i izmerenog protoka:

The following formula can be used to adjust the value of the flow rate of the nozzles to the flow rate of the nozzle measured:

Preračunati protok Recalculate Flow (Q_1) at new pressure (P_1) na novom pritisku

$$Q_1 = Q_2 \times \sqrt{\frac{P_1}{P_2}}$$

Q1 is the flow rate at P1 pressure and Q2 is the flow rate at P2 pressure.

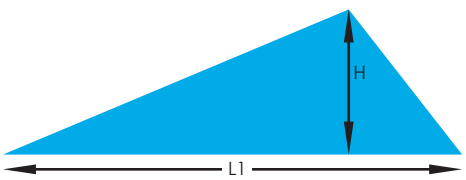
Q1 je protok pri pritiski P1 a Q2 je protok pri pritisku P2.

Area calculation Proračun površine

Rectangular areas Četvorougaona površina

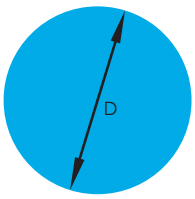
$$\text{Area (ha) = Površina} = \frac{\text{L1 (m) x L2 (m)}}{\text{10.000}}$$

Triangular areas Trouglasta površina



$$\text{Area (ha) = Površina} = \frac{\text{L1 (m) x H (m)}}{\text{20.000}}$$

Circular areas Kružna površina



$$\text{Area (ha) = Površina} = \frac{\pi \times D^2(m)}{\text{40.000}}$$

$\pi = 3{,}14159$

Lenght Dužina

Unit Jed. mere	English Engleske	Metric Metričke
1 mm	0,03937 in	-
1 cm	0,3937 in	-
1 m	39,37 in	-
1 km	0,621371 mile	-
1 in	-	25,4 mm
1 ft	12 in	304,8 mm
1 mile	-	1,609 km

Volume Zapremina

Unit Jed. mere	English Engleske	Metric Metričke
1 lt.	0,26417 US Gal	-
1 US Gal	-	3,785 lt.

Surface Površina

Unit Jed. mere	English Engleske	Metric Metričke
1 m²	10,764 sq. ft	-
1 ha	2,471 acres	10.000 m²
1 acre		4.047 m² / 0,4047 ha

Pressure Pritisak

Unit Jed. mere	English Engleske	Metric Metričke
1 bar	14,503 psi	0,1 Mpa
1 psi	-	0,069 bar

Speed Brzina

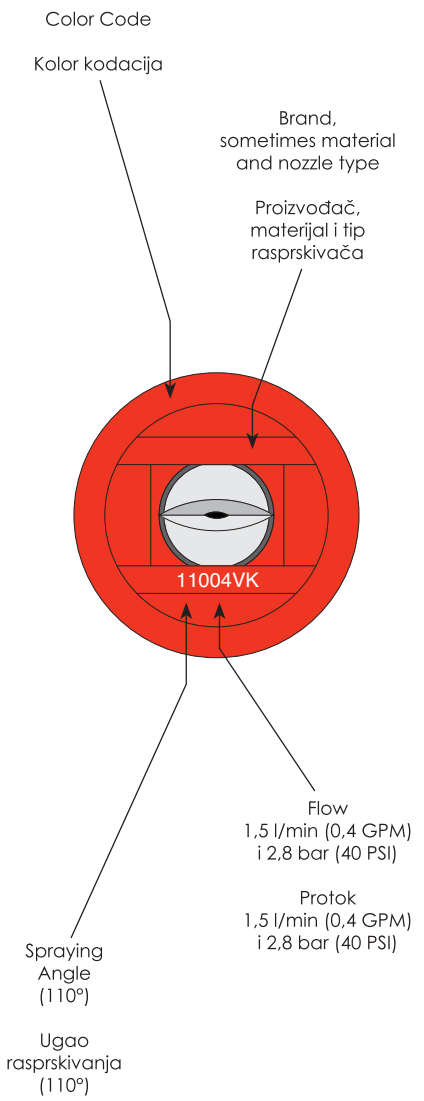
Unit Jed. mere	English Engleske	Metric Metričke
1 m/s	2,236 mph	3,6 km/h
1 km/h	0,621 mph	0,277 m/s
1 mph	-	1,609 km/h

Fan Nozzles Flows - ISO color code Rasprskivači sa lepezastim mlazom – ISO kolor kodacija

(50)	bar	l/min
01	1,0	0,23
	1,5	0,28
	2,0	0,32
	2,5	0,36
	3,0	0,39
	4,0	0,45
	5,0	0,50
	6,0	0,55
	7,0	0,60
015	1,0	0,34
	1,5	0,42
	2,0	0,48
	2,5	0,54
	3,0	0,59
	4,0	0,68
	5,0	0,76
	6,0	0,83
	7,0	0,90
	8,0	0,96
02	1,0	0,46
	1,5	0,56
	2,0	0,65
	2,5	0,72
	3,0	0,79
	4,0	0,91
	5,0	1,02
	6,0	1,12
	7,0	1,21
	8,0	1,29
025	1,0	0,57
	1,5	0,70
	2,0	0,81
	2,5	0,90
	3,0	0,99
	4,0	1,14
	5,0	1,28
	6,0	1,40
	7,0	1,51
	8,0	1,62
03	1,0	0,68
	1,5	0,83
	2,0	0,96
	2,5	1,08
	3,0	1,18
	4,0	1,36
	5,0	1,52
	6,0	1,67
	7,0	1,80
	8,0	1,93
04	1,0	0,91
	1,5	1,12
	2,0	1,29
	2,5	1,44
	3,0	1,58
	4,0	1,82
	5,0	2,04
	6,0	2,23
	7,0	2,41
	8,0	2,58

(50)	bar	l/min
05	1,0	1,14
	1,5	1,39
	2,0	1,61
	2,5	1,80
	3,0	1,97
	4,0	2,27
	5,0	2,54
	6,0	2,79
	7,0	3,01
	8,0	3,22
06	1,0	1,37
	1,5	1,68
	2,0	1,94
	2,5	2,16
	3,0	2,37
	4,0	2,74
	5,0	3,06
	6,0	3,35
	7,0	3,62
	8,0	3,87
08	1,0	1,82
	1,5	2,23
	2,0	2,58
	2,5	2,88
	3,0	3,16
	4,0	3,65
	5,0	4,08
	6,0	4,47
	7,0	4,83
	8,0	5,16
10	1,0	2,28
	1,5	2,79
	2,0	3,23
	2,5	3,61
	3,0	3,95
	4,0	4,56
	5,0	5,10
	6,0	5,59
	7,0	6,03
	8,0	6,45
15	1,0	3,42
	1,5	4,16
	2,0	4,83
	2,5	5,40
	3,0	5,92
	4,0	6,84
	5,0	7,64
	6,0	8,37
	7,0	9,04
	8,0	9,67
20	1,5	6,44
	2,0	7,20
	2,5	7,89
	3,0	8,52
	4,0	9,11
	5,0	10,19
	6,0	11,16
	7,0	12,05

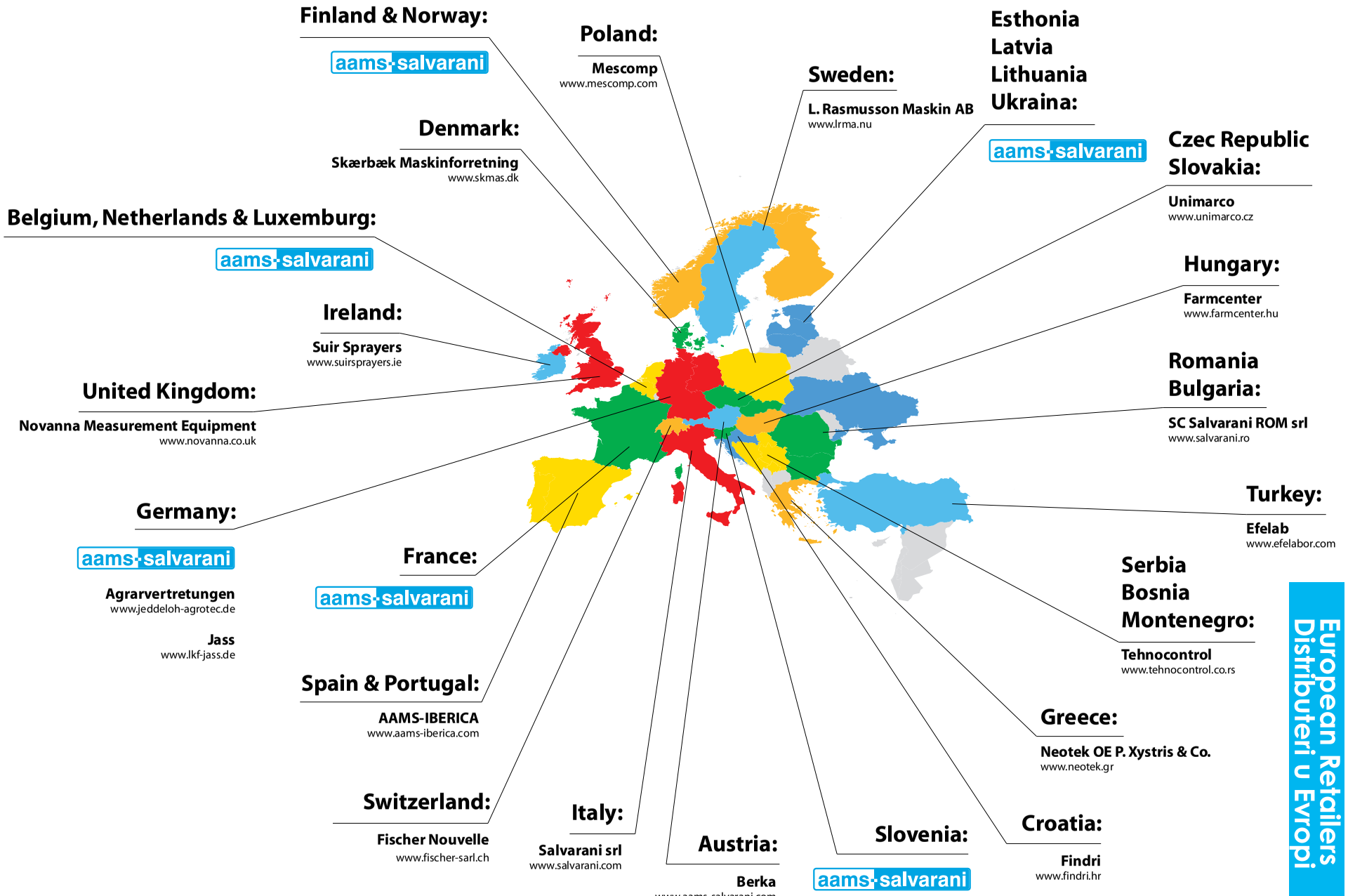
Nozzles Description Oznake na rasprskivačima



Cone Nozzles Flows - ISO color code Rasprskivači sa konusnim mlazom – ISO kolor kodacija

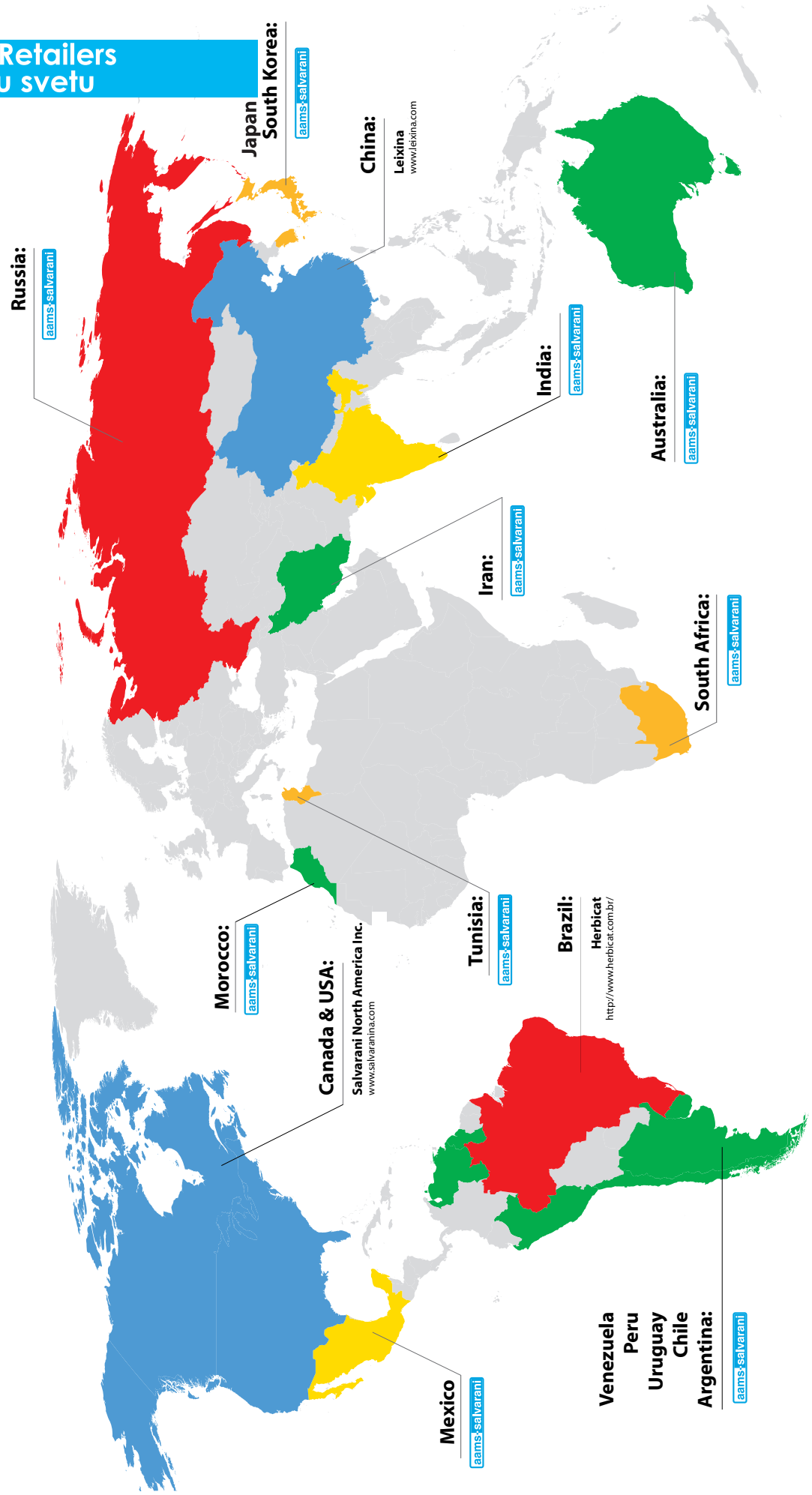
		l/min																
		5 bar	6 bar	7 bar	8 bar	9 bar	10 bar	11 bar	12 bar	13 bar	14 bar	15 bar	16 bar	17 bar	18 bar	19 bar	20 bar
800050 (100)	100	0,245	0,266	0,284	0,301	0,317	0,332	0,346	0,359	0,372	0,384	0,396	0,407	0,418	0,429	0,439	0,449
800067 (50)	50	0,331	0,360	0,386	0,410	0,433	0,454	0,474	0,493	0,512	0,529	0,546	0,562	0,578	0,594	0,608	0,623
8001 (50)	50	0,496	0,539	0,579	0,615	0,649	0,681	0,711	0,740	0,767	0,794	0,819	0,844	0,867	0,890	0,912	0,934
80015 (50)	50	0,754	0,823	0,886	0,944	0,999	1,05	1,10	1,15	1,19	1,23	1,28	1,32	1,35	1,39	1,43	1,46
8002 (50)	50	1,01	1,10	1,18	1,26	1,33	1,40	1,47	1,53	1,59	1,65	1,70	1,75	1,81	1,86	1,90	1,95
8003 (50)	50	1,53	1,67	1,80	1,93	2,04	2,15	2,25	2,35	2,45	2,54	2,63	2,72	2,80	2,88	2,96	3,03
8004 (50)	50	2,03	2,23	2,40	2,57	2,72	2,87	3,01	3,14	3,27	3,39	3,51	3,62	3,73	3,84	3,94	4,04

based on water @ 21°C (70° F) pri temperaturi vode od 21°C (70° F)



European Retailers
Distributeri u Evropi

Worldwide Retailers
Distributeri u svetu



Agricultural products

Electric and electronic control boxes, ISOBus for spraying and hydraulic equipments and fittings for spraying.

Proizvodi za poljoprivredu

Električni i elektronski kompleti za kontrolu, ISO bus za prskalice, hidrauličnu opremu i fitinzi.

Salvarani

Spraying Equipment

Products specific for the spraying business.

Oprema za prskalice

Proizvodi za prskalice i mašine za zaštitu bilja.

Salvarani

Components

Electric components made by Salvarani company and addressed to Automotive business.

Komponente

Električne komponente kompanije Salavarani.

Salvarani

Compressors

12 VDC dry diaphragm piston compressor.

Kompresori

Klipni kompresori 12 V sa suvom membranom.

Salvarani

AAMS-Salvarani

AAMS-SALVARANI bvba ist eine neugegründete Firma in Belgien. Das Unternehmen hat bereits 2002 unter dem Namen A.A.M.S. (Advanced Agricultural Measurement Systems) mit der Entwicklung und Produktion von Mess- und Prüftechniken für die Landwirtschaft begonnen.
Es gibt zwischen dem ehemaligen Betrieb A.A.M.S. und SALVARANI Srl aus Italien eine Synergie in den Bereichen praktische Erfahrung, strategische Zusammenarbeit und experimentelle Eigenschaften. Diese Vorteile erweitern die Möglichkeiten der neuen Firma ihre Ziele – eine bessere Abdeckung weltweit und ein größeres Angebot an maßgeschnittenen Lösungen im Bereich Kalibrierung und Prüfung für die Pflanzenschutztechnik – zu erreichen.
AAMS-SALVARANI bvba bietet Ihnen ein sehr komplettes Programm von Geräten zur Prüfung und zum Kalibrieren von Spritzen in der Landwirtschaft, im Obst- und Gemüseanbau, in Gewächshäusern und in Grünzonen. Auch Prüfgeräte zur Messung der Verteilung von Düngerstreuern und Gülleinjektoren gehören zum Lieferumfang.
AAMS-SALVARANI bvba hat seinen Hauptsitz in Maldegem, Belgien.
SALVARANI ist zu Hause in Poviglio, Italien

AAMS-SALVARANI bvba is een onlangs nieuw opgericht Belgisch bedrijf. Het bedrijf gaat verder op wat onder de naam A.A.M.S. (Advanced Agricultural Measurement Systems) in 2002 opgestart werd, met name ontwikkeling en productie van test- en meetapparatuur voor landbouwtechnieken.
Samen vormen ze een team met vele jaren praktische ervaring in de sector van de landbouwtechniek. Het huidige zwaartepunt blijft op spuittechniek en de ontwikkeling van test-, controle- en kalibratie apparatuur in de breedste zin van het woord voor alle spuiten in land- en tuinbouw, groene sector en kasculturen.
Kort samengevat biedt AAMS-SALVARANI bvba u een compleet modern programma van test- en keuringsapparatuur voor spuittechniek voor de land- en tuinbouw, groene sector en kasculturen. We bieden eveneens testapparatuur aan voor het meten van verdeling van organische en chemische meststofstrooiers zoals kunstmeststrooiers en mestinjectoren.
AAMS-SALVARANI bvba heeft zijn basis in Maldegem, België. Salvarani Srl is gevestigd in Poviglio, Italië.

AAMS-Salvarani es una nueva compañía con sede en Bélgica. Comenzó en 2002 en Bélgica como A.A.M.S. (Advanced Agricultural Measurement Systems) con el desarrollo y producción de equipamiento para la calibración e inspección de pulverizadores.
La nueva compañía surge de la sinergia entre la inicial AAMS y la italiana Salvarani srl, consiguiendo de manera conjunta, la experiencia específica de cada una, las relaciones comerciales de las dos compañías.
Basada en su larga experiencia en el sector de la pulverización, AAMS-Salvarani desarrolla equipos para la medida y la evaluación de pulverizadores agrícolas. Además, AAMS-Salvarani está involucrada en nuevos desarrollos de productos en conjunto con terceras partes, tales como institutos de investigación, universidades, fabricantes de maquinaria agrícolas, centros de mantenimiento y calibración de maquinaria, ofreciendo herramientas y formación específicas.
AAMS-Salvarani ofrece hoy en día una amplia variedad de productos para el control e inspección de pulverizadores utilizados en la agricultura y horticultura (incluyendo la intensiva bajo invernaderos), así como equipamiento para el control de abonadoras (químicas y orgánicas) e inyectores de purines.
AAMS-Salvarani está situada en Maldegem, Bélgica. Salvarani srl es el punto de contacto para los clientes italianos, así como para los centros de investigación interesados en nuevas tecnologías sobre optimización de los pesticidas agrícolas.

Salvarani AAMS – é a nova empresa com sede em Bélgica. Começou em 2002 na Bélgica como AAMS (Advanced Agricultural Measurement Systems), com o desenvolvimento e produção de equipamentos para calibração e inspeção de pulverizadores.
A nova empresa surge da sinergia entre a inicial AAMS e a italiana Salvarani SRL, juntando os conhecimentos específicos de cada uma e as relações comerciais das duas empresas.
AAMS-Salvarani oferece hoje uma grande variedade de produtos para a regulagem, calibração e inspeção de pulverizadores usados na agricultura e horticultura (incluindo intensiva em estufas), e equipamento de controlo de fertilizantes (química e orgânica) e injeção de lamas. AAMS-Salvarani está localizada em Maldegem, Bélgica.
Salvarani SRL é o ponto de contacto para clientes italianos, bem como para centros de pesquisa interessados em novas tecnologias para otimização de defensivos agrícolas.

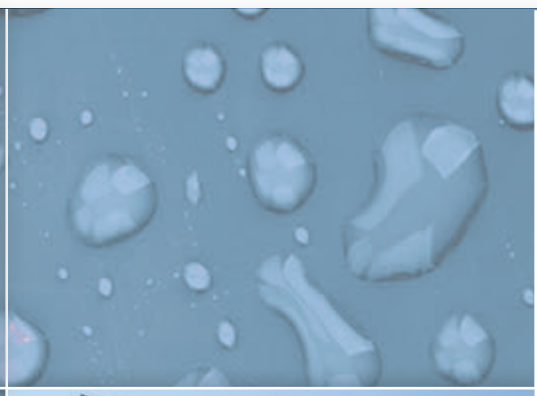
AAMS-SALVARANI bvba néven Belgiumban új, közös céget alapítottunk. Az A.A.M.S. (Advanced Agricultural Measurement Systems) már 2002 óta foglalkozik mezőgazdasági mérő- és bevizsgáló műszerek fejlesztésével és gyártásával.
A korábban önállóan működő A.A.M.S. és az olasz SALVARANI Srl között eddig is élő stratégiai együttműködés volt tapasztalataink gyakorlati hasznosítása és kísérleteink, kutatásaink terén. Az új vállalkozás minden eddiginél jobb lehetőséget kínál közös céljaink eléréséhez, a növényvédelmi technika testreszabott kalibrálási és vizsgálati eszközeinek világméretű terjesztéséhez.
AAMS-SALVARANI bvba Önnek a szántóföldi gazdálkodás, a zöldésgtermesztés, a szőlő- és gyümölcstermesztés, a hajtatóházak - azaz a teljes "zöld szektor" - permetezőeszközei vizsgálatához és kalibrálásához kínál mindenre kiterjedő programot.
Kínálatunkban a műtrágyaszórók és a hígtrágya injektorok bemérésére alkalmas műszerek is szerepelnek.
Az AAMS-SALVARANI bvba cég székhelye Belgiumban, Maldegem városában van. SALVARANI anyacége Olaszországban, Povigliobanműködik tovább.

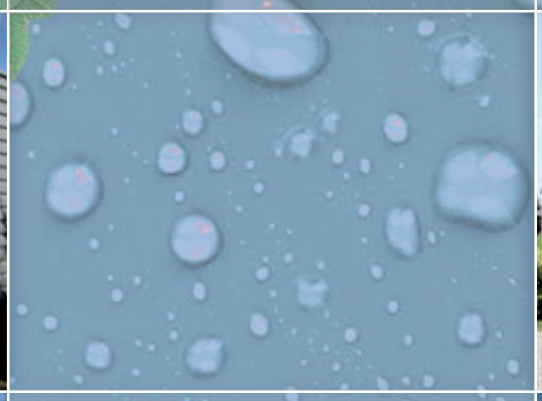
AAMS-SALVARANI BVBA este o companie nou înfiintată în Belgia. Activitatea a început în 2002 cu numele de AAMS (Sisteme Avansate de Măsurare pentru Agricultură), cu productia si dezvoltarea de echipamente pentru testarea si calibrarea masinilor agricole.
Prin achizitia AAMS de catre SALVARANI srl sa creat o puternică sinergie care exploatează experienta specifică si parteneriatele strategice ale ambelor companii si este capabila de a oferi o gamă mai largă de solutii pentru controlul si calibrarea de pulverizatoare.
MultumitaexperienteiAAMS-SALVARANIBVBAdevoltaincontinuareechipamentenoiîndomeniulechipamentelordecontrolmanualsielectronic,demăsuraresicalibrare.
În plus fată de productia de diferite instrumente de măsurare AAMS-SALVARANI BVBA este de asemenea dedicata la proiectarea de produse pentru terti cum ar fi institute de cercetare, universitati, producatori de utilaje agricole, echipamente de întretinere, centre de calibrare si alte organizatii, oferind instrumente si cursuri de formare specifice.
AAMS-SALVARANI BVBA are sediul în Maldegem, Belgia. Salvarani srl este punct de referintă în Italia pentru orice operator, firmă sau centru de cercetare interesat sa optimizeze utilizarea pesticidelor în agricultură.

AAMS-SALVARANI 是于2002年A.A.M.S. (Advanced Agricultural Measurement Systems) 名下在比利时新近成立的公司，长期致力于研发和生产用于农业机械检测的产品，关注植保机械产品质量的国际标准化。新的公司协同原来的A.A.M.S.公司和来自意大利的SALVARANI公司，并利用两公司最好的实践专业经验和战略合作伙伴关系，为检测与校准喷雾器械提供一个更广泛的解决方案。
AAMS-SALVARANI团队在农业技术领域具有多年丰富的实践经验，在此基础上研发用于不同领域农业和园艺的喷雾机的检测与校准产品更具有权威性。基于在喷雾技术方面长期的经验，AAMS-SALVARANI 研发了喷雾机械的测量与检测设备，除了研发各种各样的检测设备，AAMS-SALVARANI还为第三方研发了各种产品，例如研究机构、大学、农业机械制造商、机械维修和校准中心以及其他提供专业工具及培训的机构。
如今，AAMS-SALVARANI为用于农业和园艺（包括设施园艺）的喷雾机、撒肥机（化肥与有机肥）、粪尿注入器提供了完整的检控产品。
AAMS-SALVARANI 总部位于比利时的马尔德海姆。

aams-salvarani





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