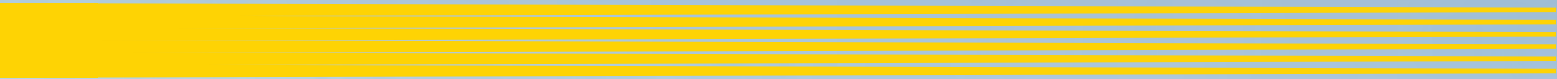


# APV PNEUMATIC SEEDERS

FERTILIZER EDITION



Version: 5.0 EN US / Item.No.: 00230-3-394

AMBITION. PASSION. VISION.



# THE APV FERTILIZER EXPERTS

The Pneumatic Seeders of the Fertilizer Edition leave nothing to be desired, because you can put together your professional equipment according to your individual requirements. With our wide range of hopper sizes, seeding shafts and fan types, we deliver solutions to suit your needs and budget. Our seeding shafts are also available in a special version, suitable for spreading fertilizer. Due to their non-corrosive design, you also benefit during fertilizer distribution from the advantages and the easy handling of our PS units.

## PS 120-300 M1 D / PS 500 M2 D

These non-corrosive "tiny models" are professional seeders to be used in small and medium enterprises. They essentially differ from each other in terms of hopper size. This makes them

ideal for use in confined spaces. Due to their compactness, they also have a lighter weight effect on soil cultivation equipment and seeders. The bigger the hopper, the greater the time saving, as it

does not need to be refilled so often. The devices are versatile and equipped for almost any application.

## PS 800 M1 D / PS 1600 M1 D

The implement features an enormous hopper volume. All components are perfectly adapted for intensive use. This type of seeder is equipped with 16 outlets, a strong hydraulic fan and a steel hopper, as well as many other extras. This also enables you to apply high seed

rates per acre. The spreading material passes from the seed hopper into the air duct via the electrically controlled seeding shaft. This is where the spreading material is conveyed to the baffle plates via plastic hoses with the aid of the fan and distributed evenly and close to the ground.

This enables precise spreading even in windy conditions.

## PS 300 M1 D TWIN

The PS 300 M1 D TWIN makes it possible to spread two entirely different seed types/ seeds with one implement. The 10.6 cu ft / 8.5 U.S.bsh. (300l) hopper is divided in the middle by a partition wall to form two chambers of 5.3 cu ft / 3.75 U.S.bsh. (150l) each. Control Box 5.7 controls each seeding shaft side separately, which means the

spread rate is kept constant. The PS contains a split seeding shaft, which is driven by two independent gearbox motors. It is possible to equip one half of the seeding shaft with fine seed wheels and the other half with coarse seed wheels. This allows two seeds of different sizes to be precisely applied in different quantities. The air valves make it

possible to adjust the air volume to the different seeds. Control Box 5.7 allows each half of the seeding shaft to be controlled separately. This also allows for a calibration test for one half of each seeding shaft.



	<b>PS 120 D</b>	<b>PS 200 D</b>
Working width	up to 19.6 ft (6m)	up to 39 ft (12m)*
Outlets freely selectable up to	16 <sup>1</sup>	16 <sup>1</sup>
Electr. / electr. PLUS / hydraulic fan	x / x / -	x / x / x
Electr. / electr. PLUS / hydr. dimensions (height / width / depth in inches)	35x24x31 (90x60x80cm) 35x24x34 (90x60x86cm) -	39x28x35 (100x70x90cm) 39x28x35 (100x70x90) 39x28x43 (100x70x110)
Hopper	4.23 cu ft / 3.4 U.S.bsh. (120l)	7.1 cu ft / 5.7 U.S.bsh. (200l)
Net weight, electr. / electr. PLUS / hydr. (in lbs)	99 / 117 / -	132 / 150 / 183
Power data	12 V / 25 A	12 V / 25 A
Power data electr. fan PLUS		12 V / 40 A (excl. seed) 12 V / 10 A (for seed)
Max. required pressure	-	2,611 psi (180 bar)
Max. required oil quantity	-	10 US gpm
Complete corrosion-resistant seeder with hose system 82 ft / 246 ft (25m/75m)	x / -	x / -
Seeding shaft for fine seed / coarse seed	x / x	x / x
19.6 ft (6m) cable from the seeder to the Control Box	x	x
Corrosion resistant calibration slide, calibration bag, counter plate (galvanized), seed scale	x	x
Stainless steel agitator	x	x
Display and monitoring of the fan speed on the hydr. fan		x
Non-corrosive dispersion plates	x	x
Galvanized hexagonal bars, 4 units / 8 units	x / -	x / -
Fill level sensor	optional (x)	optional (x)
Foreign object sieve		
Crane straps for easier handling when mounting		
Calibration button, optional	x	x
Extension cable PS MX 7 ft / 16.5 ft / 46 ft (2m / 5m / 14m), optional	x / x / x	x / x / x
Mounting kit for top link, optional	x	x
Sensor system <sup>3</sup> , optional	x	x

\* When using the electr. fan PLUS and the hydr. fan  
<sup>1</sup> optional (8 outlets with 8 Y-dividers (see page 14) or doubling pieces (see page 12) available as accessories)

<sup>2</sup> optional (16 outlets with 16 Y-dividers (see page 14) or doubling pieces (see page 12) available as accessories)

<sup>3</sup> For use with Control Box 5.2, 5.7, 6.2, and ISOBUS

<b>PS 300 D</b>	<b>PS 500 D</b>	<b>PS 800 D</b>	<b>PS 1600 D</b>	<b>PS 300 D TWIN</b>
up to 39 ft (12m)*	up to 39 ft (12m)*	up to 39 ft (12m)	up to 39 ft (12m)	up to 39 ft (12m)*
16'	16'	32 <sup>2</sup>	32 <sup>2</sup>	16'
x / x / x	x / x / x	- / - / x	- / - / x	x / x / x
39x31x39 (100x80x100) 39x31x39 (100x80x100) 39x31x45 (100x80x115)	49x31x47 (125x80x120) 49x31x47 (125x80x120) 49x31x49 (125x80x125)	- - 49x39x67 (125x100x170cm)	65 x 43 x 87 (165 x 110 x 220cm)	41x30x39 (105x75x100) 41x30x39 (105x75x100) 41x30x45 (105x75x115)
10.6 cu ft / 8.5 U.S.bsh. (300l)	17.7 cu ft / 14.2 U.S.bsh. (500l)	28.2 cu ft / 22.7 U.S.bsh. (800l)	56.6 cu ft / 45 U.S. bsh. (1,600l)	10.6 cu ft / 8.5 U.S.bsh. (300l)
154 / 172 / 205	200 / 238 / 271	- / - / 551	- / - / 1,036	200 / 238 / 271
12 V / 25 A	12 V / 25 A	12 V / 25 A	12 V / 25 A	12 V / 40 A
(depending on shaft motor) (depending on shaft motor)				Fan: 12 V / 40 A Seed shaft drive: 12 V / 15 A
2,611 psi (180 bar)	2,611 psi (180 bar)	2,611 psi (180 bar)	2,611 psi (180 bar)	2,611 psi (180 bar)
10 US gpm	10 US gpm	10 US gpm	10 US gpm	10 US gpm
x / -	x / -	- / x	- / x	x / -
x / x	x / x	x / x	x / x	x / x
x	x	x	x	x
x	x	x	x	x
x	x	x	x	x
x	x	x	x	x
x	x	x	x	x
x / -	x / -	- / x	- / x	x / -
optional (x)	x	x	x	x
		x	x	
		x	x	
x	x	x	x	x
x / x / x	x / x / x	x / x / x	x / x / x	
x	x			
x	x	x	x	x

# CONTROL BOXES

## CONTROL BOX 1.2: A SOLID BASE

Control Box 1.2 is the ideal starter module and stands out for its compactness. It controls the fundamental seeding functions and is also compatible with selected machine sensors. Adjustment of the speed of the seeding shaft and fan is easy, quick and straightforward.



## CONTROL BOX 5.2: THE BESTSELLING CONTROL BOX

Control Box 5.2 is the most popular version of the APV control boxes and includes extensive functions. Such functions as adjusting the spread rate to the travel speed, the automatic switch-off on headland, the ability to precisely regulate the electric fan or the automatic execution of the calibration test simplify work enormously.



## CONTROL BOX 6.2: THE TOUCH CONTROL BOX

Control Box 6.2 impresses with even more functionality for the professional farmer and contractor. The large touch display shows all key machine processes at one glance. The menu is designed for intuitive operation with self-explanatory symbols. Due to the additional functions, such as the automatic pre-metering of the seeds and the creation of a seed library, you are able to configure the use of your seeder even more efficiently.



## CONTROL BOX 5.7: THE TWIN CONTROL BOX

Control Box 5.7 completes the PS 300 M1 D TWIN and allows the separate control of two seeding shafts. With the same type of functioning, Control Box 5.7 also offers the possibility to operate up to two APV seeders in parallel and independently of each other with an additional adapter cable. In order to complete the package of the multitasking control box, the control is compatible and can be combined with any sensors.<sup>1</sup>

When jointly using two PS with electric fan or two MDP, pay attention to a possible reduction of the ventilation system performance due to the greater power consumption.



## ISOBUS M2

All Pneumatic Seeders from APV can be controlled via the tractor's own terminal using the ISOBUS function. Only one ISOBUS connection needs to be available on the tractor. This enables even more professional operation and efficient use of the PS. You do not need an additional monitor in the cab and thus have a better overview. There is only one cable from the seeder to the tractor. The Section-Control enables automatic seeding wave shut-off depending on the GPS position. You can name your seed individually in the seed library. All functions of the Control Box 6.2 are available to you.

NEW: If your tractor is not ISOBUS-compatible but you would like to use our seeders with ISOBUS, there is the new ProfiControl, which can be used as a stand-alone solution for ISOBUS implements.



	CONTROL BOX	1.2	5.2	6.2	5.7	ISOBUS <sup>1</sup>	PROFI-CONTROL
<b>FUNCTIONS</b>							
Controlling and monitoring all the electronics		x	x	x	x	x	x
Spread rate adjustment in running operation		x	x	x	x	x	x
Automatic emptying function		x	x	x	x	x	x
Performing a calibration test		x	x	x	x	x	x
Fill level warning option (together with machine sensor. For example: fill level sensor)		x	x	x	x	x	x
Calibration test: display options - lbs/acre and seeds/m <sup>2</sup>			x	x	x	x	x
Headland management (in conjunction with linkage sensor)			x	x	x	x	x
Control Box is sensor-enabled		x	x	x	x	x	x
Pre-metering			x	x	x	x	x
Total hours and acre counter			x	x	x	x	x
Selection of different languages and units of measure (metric, imperial)			x	x	x	x	x
Seed library: Save your standard seeds and change the application at the touch of a button (without a new calibration test)				x		x	x
Remaining-quantity display (area & distance)				x		x	x
Display of rotational speed for the hydraulic fan			x	x	x	x	x
Automatic pre-metering				x		x	x
Operation via color touch display				x		x	x
Update possibility via USB stick				x		x	x
Robust aluminum housing				x	x		
Independent activation of two seeding shafts and an electric fan (PS 300 M1 D TWIN)					x	x	x
Independent, parallel operation of two APV seed drills with electric or hydraulic fan					x	x	x
Section Control: Automatic seeding shaft shut-off depending on the GPS position <sup>2</sup>						x	
Variable Rate Control: Application rate is controlled depending on an application map						x	
<b>SCOPE OF DELIVERY WITH ACCESSORIES KIT</b>							
Control Box		1.2	5.2	6.2	5.7	ISOBUS M2 <sup>1</sup>	PROFI-CONTROL
Cable for the power supply from the 3-pin plug to the Control Box			4.9 ft		26 ft		x
Control box bracket			X				
<b>OPTIMIZED FOR USE WITH THE FOLLOWING IMPLEMENTS</b>							
PS 120 M1 D			x				x
PS 200 M1 D			x				x
PS 300 M1 D			x				x
PS 500 M2 D			x				x
PS 800 M1 D			x				x
PS 1600 M1 D			x				x
PS 300 M1 D TWIN					x		x

<sup>1</sup>Display is not included in the scope of delivery!



<sup>2</sup>Depending on the tractor equipment

# SEEDING SHAFTS

## PS FERTILIZER EDITION






### STANDARD FEATURES

The following seeding shafts are included in the scope of delivery of all Pneumatic Seeders of the fertilizer edition.

TYPE	IMAGE	RELIABLE METERING OF THE FOLLOWING SEEDS		
THE FINE-BLIND fb-f-fb-fb		• White mustard	• Phacelia	• Micro granule
THE FLEX 20 fb-Flex20-fb		• Peas	• Beans	• Fertilizer

### ACCESSORIES



You can purchase the following seeding shafts as accessories.

TYPE	IMAGE	RELIABLE METERING OF THE FOLLOWING SEEDS		
THE FINE-FULL fb-fv-fv-fb		• Clover	• Cress	• Micro granule
THE EXTRA FINE-FULL fb-efv-efv-fb		• Canola		
THE FINE f-f-f-f		• Grass	• White mustard	• Cress
THE FLEX 10 fb-fb-Flex10-fb		• Micro granule • Fertilizer	• Buckwheat	• Vetch
THE FLEX 40 Flex40		• Fertilizer	• Cereals	• Peas

## TWIN-PS

### STANDARD FEATURES

The following seeding shafts are included in the scope of delivery of the Pneumatic Seeder TWIN.

TYPE	IMAGE	RELIABLE METERING OF THE FOLLOWING SEEDS		
THE FINE-BLIND fb-f		• White mustard • Clover	• Phacelia	• Micro granule
THE FLEX 20 Flex20		• Cereals	• Beans	• Buckwheat

### ACCESSORIES

You can purchase the following seeding shafts as accessories.

TYPE	IMAGE	RELIABLE METERING OF THE FOLLOWING SEEDS		
THE FINE f-f		• Grass	• Cereals	• Cress

# FAN

We recommend different types of fans for different applications. The fans differ in air output and connection requirements (electrical system or hydraulic system).

- The PS 120–500 can always be equipped with all three types of fans - the electric fan, the electric fan PLUS and the hydraulic fan. We recommend that you consult with our sales staff or sales partners to determine suitability of the specific fans for your applications.
- For the PS 800-1600 we offer an even more powerful hydraulic fan as standard equipment.<sup>1</sup>

Below you will find an overview of the functions of individual fans.

## ELECTRIC FAN<sup>2</sup>

The electric fan is the basic version. It is suitable for spreading over small working widths. The advantage of the electric fan is that it does not require any hydraulic connection and the seed drill has a lower net weight, therefore making it easier to install.

Electric fan: up to 7,7 lbs/min<sup>3</sup>(3,5 kg/min<sup>3</sup>)

## ELECTRIC FAN PLUS

The electric fan PLUS was developed to make the Pneumatic Seeders even more powerful and yet compact. In terms of performance, it is more than twice as powerful as the electric fan. This makes it possible, for example, to apply fine seeds (mustard, phacelia, oil radish, grass, ...) over a working width of up to 39 ft (12m).

Electric fan PLUS: up to 17,6 lbs/min<sup>3</sup> (8 kg/min<sup>3</sup>)

## HYDRAULIC FAN

If the ventilation system performance of the electric fan is too low, then the hydraulic fan is the right choice. It is recommended for spreading on large working widths or for large spread rates.

**Max. required pressure:** 2,611 psi (180 bar)

**Max. required oil quantity:** 10 US gpm (38l/min)

Hydraulic fan (PS 200–500): up to 30,9 lbs/min<sup>3</sup> (14 kg/min<sup>3</sup>)

Hydraulic fan (PS 800-1600): up to 60 lbs/min<sup>3</sup> (30 kg/min<sup>3</sup>)



## CHOOSING THE RIGHT FAN

Calculate the application rate per minute and use the calculated value to find out whether you need a Pneumatic Seeder with electric or hydraulic fan.<sup>4</sup>

$$\frac{\text{Seed Quantity (lbs/per acre)} \times \text{Speed (mph)} \times \text{Working Width (ft)}}{495} = \text{lbs/min}$$

<sup>1</sup> Due to the special requirements of the PS 800 M1 D and PS 1600 M1 D, only the hydraulic fan can be used here.

<sup>2</sup> The electric fan is a powerful double fan.

<sup>3</sup> Maximum values for standard applications and proper mounting

<sup>4</sup> For heavy seeds (beans, peas, wheat, fertilizer) always use a hydraulic fan!

# WHAT IS THE RIGHT PNEUMATIC SEEDER FOR ME?

## OVERVIEW OF THE APV PS SERIES

- **Standard series:** PS 120 M1, PS 200 M1, PS 300 M1, PS 500 M2, PS 800 M1, PS 1100 M1 and PS 1600 M1
- **Fertilizer Edition:** PS 120 M1 D, PS 200 M1 D, PS 300 M1 D, PS 500 M2 D, PS 800 M1 D and PS 1600 M1 D and PS 300 M1 D TWIN
- **Special applications:** 9–16 outlets (PS 120 M1–PS 500 M2) or 32 outlets (PS 800 M1–PS 1600 M1)

## BASIC CONSIDERATIONS

- What do you want to spread with the Pneumatic Seeder? Please note that our PS units are suitable for versatile applications. Think about the future: If you might want to work with larger working widths or bigger and heavier seeds at a later time, a Pneumatic Seeder with a hydraulic fan instead of an electric fan would probably be more suitable for you.
- If you want to spread corrosive agents (fertilizers or micro granulates), use only Fertilizer Edition Pneumatic Seeders (these are fully corrosion-proof).
- **If equipped with a hydraulic fan, you need one single-acting control unit (size BG 3) and one pressureless return (without reduction, max. 5 bar return pressure) with a size 4 coupling (BG 4). Max. required pressure: 180 bar, max. required oil quantity: 38 l/min**

## SELECTION OF THE RIGHT FAN

Calculate the spread rate per minute and using this value, find out whether you need a Pneumatic Seeder with an electric, electric PLUS or hydraulic fan.<sup>1</sup>

$$\frac{\text{Seed Quantity (lbs/per acre)} \times \text{Speed (mph)} \times \text{Working Width (ft)}}{495} = \text{lbs/min}$$

max. lbs/min (kg/min)	Up to 7.7 lbs/min (3.5 kg/min)	Up to 17.6 lbs/min (8 kg/min)	Up to 30.8 lbs/min (14 kg/min)	Up to 66 lbs/min (30 kg/min)
Suitable seeder	PS 120–500 with elec. fan	PS 120–500 with elec. fan <b>PLUS</b>	PS 200–500 with hydr. fan	PS 800–1600 with hydr. fan

## EXAMPLE

The Johnson family wants to spread 41 lbs of a cover crop mixture/per acre at a speed of 6 mph (10 km/h), the Pneumatic Seeder will be mounted on a 20 ft (6 m) cultivator.

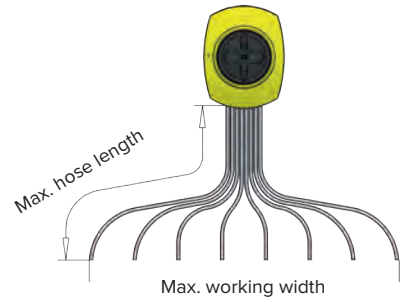
$$\text{Calculation: } \frac{20 \text{ ft} \times 6 \text{ mph} \times 41 \text{ lbs}}{495} = 9.9 \text{ lbs/min}$$

With this result, the Johnson family could purchase a PS of the versions 200–500 with electric fan PLUS or hydraulic fan. The Johnson family does not have a pressureless return on their tractor. Therefore, the hydraulic fan is not possible. For this reason, the Johnson family chooses from the versions PS 200–500 with electric fan PLUS.

<sup>1</sup> A hydraulic fan must always be used for heavy seeds (beans, peas, wheat, fertilizer)!

### SELECTION OF THE RIGHT HOSE LENGTH

Good spreading results depend on the hose lengths and proper hose laying. On hydraulic fans, connect the longest seed hoses starting on the gearbox motor side.



Max. hose length	13 ft (4m)	26 ft (8m)			33 ft (10m)	46 ft (14m)
max. working width	20 ft (6m)	20 ft (6m)	39 ft (12m)	39 ft (12m)	39 ft (12m)	39 - 79 ft (12-24m)
Suitable seeder	PS 120–500 With elec. fan	PS 200–500 With elec. fan <b>PLUS</b> or hydr. fan	PS 120–500 With elec. fan <b>PLUS</b> and Y-divider <b>(fine seed)</b>	PS 200–500 With hydr. fan with Y-divider	PS 800–1600 With hydr. fan	PS 800–1600 With special equipment <sup>2</sup>

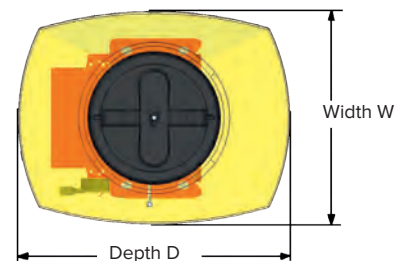
### SELECTION OF THE RIGHT HOPPER SIZE

Pneumatic Seeder with elec. fan / elec. fan PLUS / hydr. fan	Dimensions in inches (Height x Width x Depth)	Weight
PS 120 + elec. fan	35 x 24 x 31	99 lbs
PS 120 + elec. fan PLUS	35 x 24 x 34	117 lbs
PS 200 + elec. fan / PLUS	39 x 28 x 35	132 lbs / 150 lbs
PS 200 + hydr. fan	39 x 28 x 43	183 lbs
PS 300 + elec. fan / PLUS	43 x 31 x 39	154 lbs / 172 lbs
PS 300 + hydr. fan	43 x 31 x 45	205 lbs
PS 500 + elec. fan / PLUS	49 x 31 x 47	220 lbs / 238 lbs
PS 500 + hydr. fan	49 x 31 x 49	271 lbs
PS 800 + hydr. fan	49 x 39 x 67	551 lbs
PS 1100 + hydr. fan	60 x 41 x 67	639 lbs
PS 1600 + hydr. fan	65 x 43 x 87	1,036 lbs
PS 1600 + hydr. fan with MT2	89 x 87 x 59	1,764 lbs
PS 300 TWIN + elec. fan / PLUS	41 x 30 x 39	220 lbs / 238 lbs
PS 300 TWIN + hydr. fan	41 x 30 x 45	271 lbs

### OPTIMUM POSITIONING OF THE PS

Determine the optimum position of the PS on the soil tillage implement based on the following criteria:

- Short, sloping hoses
- Installation position and installation height of the dispersion plates (approx. 1.40 ft (40cm) over the worked soil, max. 2.50 ft (75cm) from dispersion plate center to dispersion plate center)
- Safe filling, calibrating, & changing seeding shafts
- Enough space when the implement will be folded (hopper!)
- Are the cables long enough? (Implement cable 20 ft (6m))
- Are the hydraulic hoses 20 ft (6m) long enough?



<sup>2</sup> Please contact your sales representative!

# DISTRIBUTION HEAD

## 12 / 24 / 32 / 36 / 48 OUTLETS

The APV Distribution Head offers greater flexibility in the number of outlets. It also extends the application range of Pneumatic Seeders. The accurate metering of the proven APV seeders is maintained. The Distribution Head also takes up less space than a Pneumatic Seeder, allowing the seeder to be mounted on the front of the tractor or on the machine's drawbar, for example. The Distribution Head can also be used for fertilizer due to its corrosion resistance.

### TECHNICAL DATA

	DISTRIBUTION HEAD
Working width	3 - 79 ft (1 - 24m) (1 Distribution Head for maximum 19.6 ft (6m) working width)
Diameter of riser pipe and PS outlet	2.96 in or 4.4 in (75mm or 110mm)
Diameter of the outlets	<b>12; 24; 32; 36 outlets: 1 inch (25mm)</b> <b>48 outlets: 3/4 inch (19mm)</b>
Dimensions	H 31 in / W 10.6 - 22.9 in (H 800mm / W 270 - 580mm)
<b>Required fan type of the PS</b>	<b>hydraulic</b>

⚠ One single-acting control unit and pressureless return required for Pneumatic Seeders!

⚠ For 64 outlets, 2x32 Distribution Heads are used (only for PS 800-1600).

### POSSIBLE COMBINATIONS DISTRIBUTION HEAD

DISTRIBUTION HEAD SETS <sup>1</sup>	MAX. NUMBER OF POSSIBLE DISTRIBUTION HEADS	
	PS 200–500 H	PS 800–1600
Set APV Distribution Head 12 outlets 4.4 in (D110) riser pipe	1	2
Set APV Distribution Head 12 outlets 2.96 in (D75) riser pipe	2	4
Set APV Distribution Head 24 outlets	1	2
Set APV Distribution Head 32 outlets	1	2
Set APV Distribution Head 36 outlets	1	2
Set APV Distribution Head 48 outlets (3/4"-outlets) <sup>2</sup>	1	2

<sup>1</sup> Set includes: Distribution Head, 90° bend, riser pipe + U bracket for mounting, hose clamps

<sup>2</sup> Especially for row dependent applications (e.g. micro granules)

## ADVANTAGES

- Individual number of outlets from 6 - 64
- High flexibility for the mounting of the seeder
- Front tank applications possible
- Distribution coefficient in the range of well-known seed drill manufacturers
- Exact metering of the APV seeders
- Can apply fine to large seeds and fertilizer
- Cost effective alternative to pneumatic seed drills
- Simple implementation of tine seeders possible

## APPLICATIONS

- Cover crop seeding with dispersion plates
- Cover crops placed behind cultivator coulters → deeper placement, especially with large seeds
- Micro-granules placed directly in the furrow at the time of seeding (drilling or precision seeding)
- Fertilizer placement in row crops
- Nurse crop application during hoeing or harrowing
- Front tank applications
- Alternative to pneumatic seed drills
  - Grain seeding
  - Canola seeding
  - Legume seeding

## EXAMPLE

Mr / Mrs Johnson would like to place a seeder on their cultivator with 44 tines and place seed behind each tine. For this purpose he/she would like to obtain sowing shoes from APV.

Mr / Mrs Johnson orders the following:

- PS 800 configured with outlet 16-2 4.4 in (D110mm)
- 2 pcs. set Distribution Head 24 outlets (= 48 outlets)
- 4 pcs. 1" blind plates (for each Distribution Head 2 outlets are blanking opposite each other)
- Hose 4.4 in (D110mm) (by the metre as required)
- 4 rolls of 1" hose each 82 ft (25m)
- 44 sowing shoe kits
- Fixing material as required: riser pipe bracket, tube 4.4 in (D110) 10.8 ft (3.3m) + bracket, hose tensioning



## STEP BY STEP GUIDE



**1.** You need a Pneumatic Seeder with hydraulic fan!

OUTLETS PS DISTRIBUTION HEAD <sup>1</sup>	POSSIBLE COMBINATION	
	PS 200-500 H	PS 800-1600
Accessory kit outlet 8-1 4.4 in (D110mm)	X	
Accessory kit outlet 8-2 2.96 in (D75mm)	X	
Accessory kit outlet 16-1 4.4 in (D110mm)		X
Accessory kit outlet 16-2 4.4 in (D110mm)		X
Accessory kit outlet 16-4 2.96 in (D75mm)		X

<b>3.</b> CONVEYOR LINE FROM PNEUMATIC SEEDER TO DISTRIBUTION HEAD
Hose 4.4 in (D110mm)
Hose PUR 2.96 in (D75mm)
Accessory kit D110 5.5 ft (1.65m) tube + bracket
Accessory kit D110 11 ft (3.3m) tube + bracket
Accessory kit D110 pipe 16.5 ft (5m) + bracket

<b>4.</b> DISTRIBUTION HEAD SETS <sup>2</sup>	OUTLETS (NUMBER)	Ø HOSE (MM)	
		HP	DISTRIBUTION HEAD
Set APV Distribution Head 12 4.4 in (D110mm)	12	110	1" (25.4 mm)
Set APV Distribution Head 12 2.96 in (D75mm)	12	75	1" (25.4 mm)
Set APV Distribution Head 24 4.4 in (D110mm)	24	110	1" (25.4 mm)
Set APV Distribution Head 32 4.4 in (D110mm)	32	110	1" (25.4 mm)
Set APV Distribution Head 36 4.4 in (D110mm)	36	110	1" (25.4 mm)
Set APV Distribution Head 48 (3/4") <sup>3</sup>	48	110	3/4" (19 mm)

<sup>1</sup> Conversion kits for existing Pneumatic Seeders

<sup>2</sup> Set includes: Distribution Head, 90° bend, riser pipe + U bracket for mounting, hose clamps

<sup>3</sup> Especially for row-dependent applications (e.g.: microgranules)

# 5.

## ACCESSORIES

1 roll of 1" (82 ft / 25m) hose

1" (25 mm) blanking plate

1 roll of 3/4" (82 ft / 25m) hose

3/4" (19 mm) blind plate

Accessory kit riser pipe bracket

Accessory kit tensioning kit (tensioning ropes for hose laying)

Sowing shoe kit (for tine seeding)

**⚠ IMPORTANT: For the configuration of a Pneumatic Seeder „PS with transition Distribution Head“, please contact your APV sales representative, we will be pleased to answer your special requests!**

**⚠** The following can be selected for the configured PS:

- Which hopper size should the Pneumatic Seeder have?
- Number of outlets?
- With or without hexagonal bar or counter plate?
- Which seeding shafts?
- Hoses, dispersion plates, hexagonal bars must be ordered separately as required!



# PS FOR SPECIAL APPLICATIONS

The “PS for special applications” expands the hose outlets of your PS. Users can only get it when purchasing a new PS, as the entire seeder is adapted to the extension of the outlets. This is how we guarantee exact metering and best lateral distribution.

## YOUR BENEFITS

- The PS 120-500 is available with 9 - 16 outlets
- With the PS 800 and the PS 1600 we offer doubling from 16 to 32 outlets
- Precise seed lateral distribution on large working widths
- Precise placement of the seed
- Direct metering of the seed in up to 16 seeding blades<sup>1</sup> (PS 120-500) and up to 32 seeding blades (PS 800-1600)
- Individual adjustment: All PS components are adjusted for the extended outflows in the APV factory
- Easy hose system
- All quality standards remain in place



## NOTE

Pneumatic Seeders for special applications

- are not suitable for large and heavy seeds (e.g. peas, beans).
- can only be acquired when purchasing a new seeder, as the configuration is directly adjusted in the APV factory.



When buying, ask for advice regarding the other planned applications.

<sup>1</sup> The seeding blade is not provided by APV.

# SENSORS

So that you can fully harness the entire functions of your Pneumatic Seeder, we offer a wide range of sensors as accessories. Choosing the right sensor depends on various factors. Allow our experts to guide you in the selection of a matching sensor.

## SPEED SENSORS

Speed sensors transmit your travel speed to the control box<sup>1</sup>. Based on this information, the control box adjusts the spread rate automatically to the travel speed.

Depending on your needs, you may choose from the following sensors:

- GPSa sensor
- Radar sensor MX 35
- Wheel sensor
- 7-pin signal cable

## SENSORS FOR HEADLAND MANAGEMENT

When you lift your machine, this sensor automatically transmits this information to the control box<sup>1</sup>. The seeding shaft stops and starts automatically when the machine is ready for operation again.

Depending on your needs, you may choose from the following sensors:

- Linkage sensor top link
- Linkage sensor chassis
- Linkage sensor pull switch
- Linkage sensor hydraulic
- Linkage sensor inductive

## SENSORS FOR IMPLEMENT MONITORING

We offer implement sensors, such as the fill level sensor and the fan speed sensor. These allow you to work more comfortably.

- The **fill level sensor** tells you when the seed hopper is running empty.
- The **fan speed sensor for hydraulic fans** continuously checks the right speed of the hydraulic fan for your application.



7-pin signal cable



GPSa sensor



Linkage sensor top link



Wheel sensor

<sup>1</sup> Control Box 5.2, 5.7, 6.2 or Isobus are required

# ADDITIONAL ACCESSORIES

## CALIBRATION BUTTON<sup>1</sup>

Affix the calibration button with the integrated magnet in your desired position. **Your benefit:** Execute the calibration test and the hopper discharge directly on the machine. With the calibration button you can decide the duration of the calibration test.



## FILL LEVEL SENSOR FOR PS<sup>2</sup>

The fill level sensor triggers an alarm on the control box if there are too few seeds or if there is too little fertilizer in the hopper. **Your benefit:** You will be alerted in a timely manner that the seed / fertilizer needs to be refilled.



## HOSE COUPLER

Our quick connection system is used in order to switch the PS between several soil tillage implements.

**Your benefit:** The separation process can be done without tools.



## AIR SEPARATOR AIR GUARD

This adjustable air separator makes sure that the air flow is separated and fertilizer / micro granules are securely placed in the desired location and also stay there (they are no longer blown out of the channel). **Your benefit:** Safe and careful placement of your fertilizer.



## Y-DIVIDER SMOOTH

The Y-divider is installed in order to split a hose. It provides a homogeneous mix of the seed and an optimal distribution on the two other hoses.

**Your benefit:** Obtain precise lateral distribution despite the splitting of the hoses.



## ACCESSORIES KIT FOR PS

The accessories kit contains the key parts for mounting the PS 120 - 500 on a second soil tillage implement.

**Your benefit:** This means that these parts do not need to be dismantled and assembled.



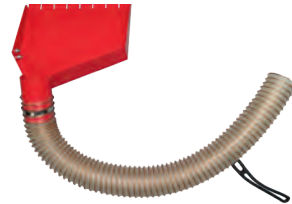
<sup>1</sup> For use with the Control Box 5.2, 5.7, 6.2 & ISOBUS M2

<sup>2</sup> Can be used with all Control Boxes.

# ADDITIONAL ACCESSORIES

## CALIBRATION SLIDE

The calibration slide with hose simplifies the calibration test and the residual evacuation of the PS hopper in places that are difficult to access. **Your benefit:** Simple calibration test



## SUBSEQUENT INSTALLATION OF THE 3-PIN STANDARD PLUG<sup>1</sup>

The 26 ft (8m) cable is screwed on the battery side directly with the battery poles and a 3-pin standard plug is mounted on the tractor at the other end, which can be installed permanently in the tractor. **Your benefit:** This simplifies the dismantling and assembly of implements with a 3-pin standard plug.



## PLATFORM KIT MODULAR

This kit allows you to retrofit a platform including a ladder on your soil tillage implement. **Your benefit:** You can conveniently access your seeder.



## MOUNTING AND PLATFORM KIT UNIVERSAL

This bracket for Disc Spreaders, Multi-Metering Systems and Pneumatic Seeders is mounted on the rearmost crossbar of the soil tillage implement so that the spreader can be assembled. The mounting kit includes a platform with access ladder and an angle-adjustable bracket for mounting a Disc Spreader, a Multi-Metering System or a Pneumatic Seeder PS 120 - 500 (with electric or hydraulic fan). **Your benefit:** Use your spreader even if there is no space to mount it on the soil tillage implement.



## CONTROL BOX BRACKET

The control box bracket can be mounted on an already existing Müller bracket (pipe). **Your benefit:** Optimal fixing of the control box on your tractor.



<sup>1</sup> Not suitable for TWIN PS.



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