



# altek Catalog

## Contents



# altek Catalog Contents

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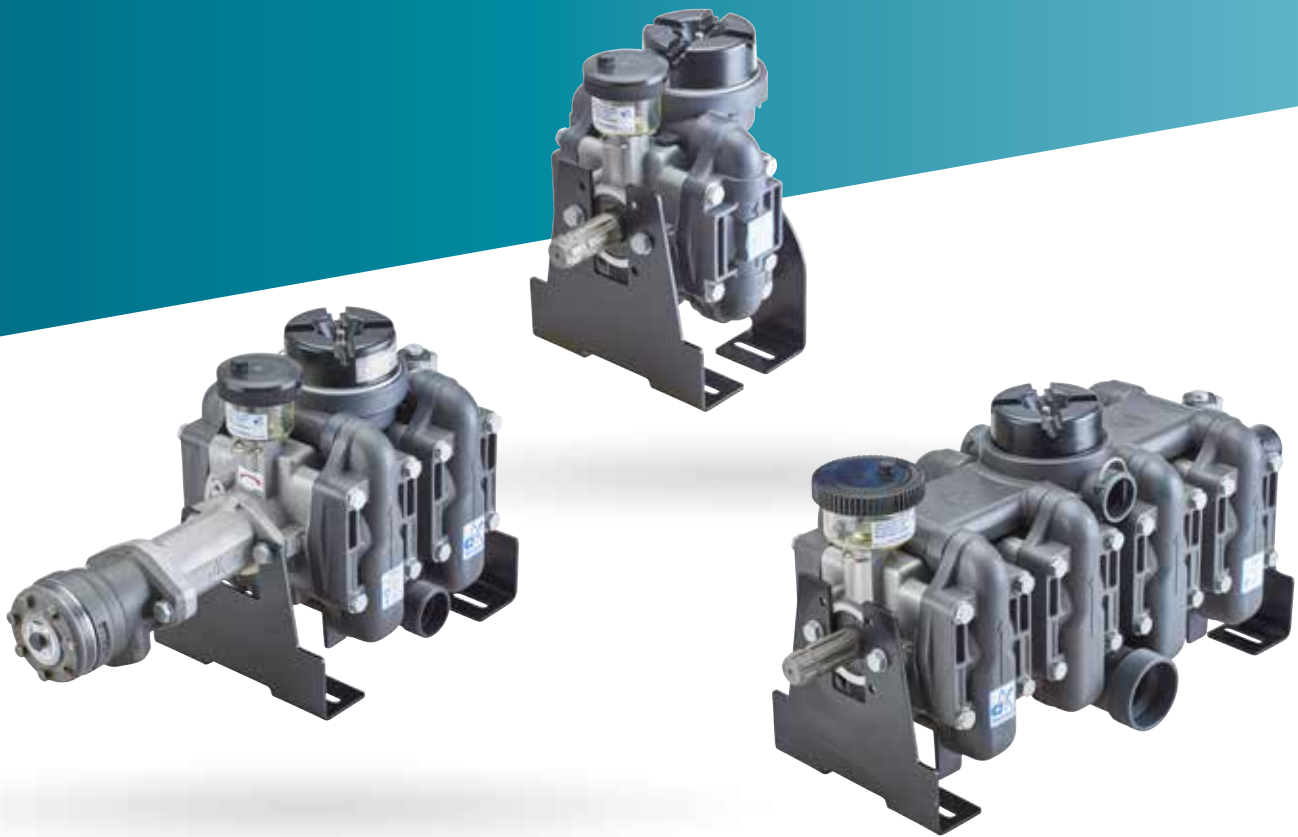
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## Pumps Diaphragm Pump

altek produces high-quality products. This is reflected in everything we do. Thus, it is one of our principles that our performance data represent genuine values under practical conditions. Besides other attributes, altek pumps are especially well known for their robustness, reliability and long service life. Due to its compact design, altek piston diaphragm pumps can be easily mounted in a wide range of sprayers. In addition to that, thanks to the modular principle utilised by altek, all pumps can be constructed in such way, that suction and pressure connections can be fitted on the left- and the right-hand side of the machine.

- **Long service life and operational reliability**
- **Easy to repair**
- **Flexible mounting**
- **Safe to run dry (Liquid)**
- **Liquid fertiliser-proof**
- **Self-priming up to 4 meters**
- **Integrated accumulator ensures, that constant pressure is maintained**
- **Perbunan® (NBR) or Desmopan® (dp) diaphragms**



## P70

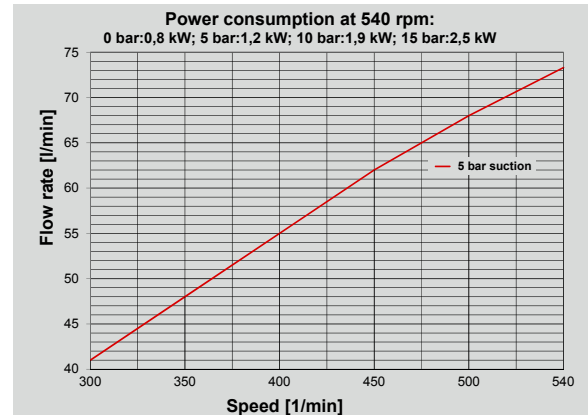
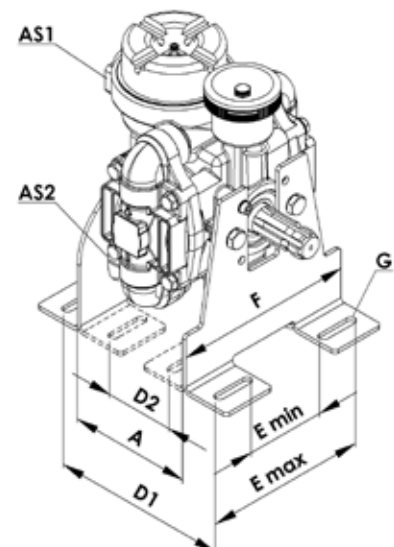
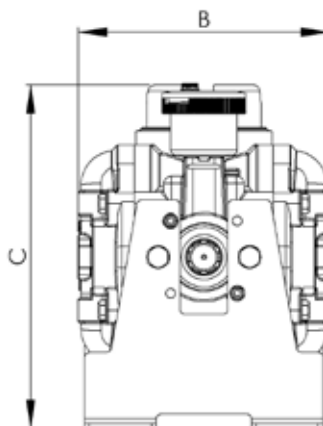
- linear steady state characteristics
- integrated hydraulic accumulator
- safe to run dry (liquid)
- self-priming up to 4 meters depth
- liquid fertiliser-proof (AHL/UAN)

Capacity at 5 bar:	70 l/min
Nominal speed:	540 rpm
Operating time pressure:	max. 15 bar
Short-term pressure:	max. 20 bar
Speed range:	450-600 rpm
Spline shaft:	DIN 9611 / ISO 500
Standard working diaphragms:	2 x NBR
Accumulator diaphragms:	1 x NBR
Inlet-ø suction side:	AS40
Outlet-ø pressure side:	AS30
Lubrication:	Oil bath
Weight:	8,7 kg
Material:	Cast aluminium, partially anodised, NBR seals, POM, stainless steel: 1.4305

### Options:

- **Desmopan® diaphragms**
- **Through shaft**
- **Hydraulic drive**

A	B	C	D1	D2	E <sub>Min</sub>	E <sub>Max</sub>	F	G
152	250	351	282	132	110	225	250	M12
specified in mm								



### Pump options

Article-No.	Type
82372	Piston diaphragm pump P70 with bracket and pto protection
More variations on request	

### Recommended fittings inlet (AS2)

08275	Plug-in hose tail AS40/ø39/90° cpl
06247	Plug-in hose tail AS40/ø39 cpl

### Recommended fittings outlet (AS1)

08337	Plug-in hose tail AS30/ø25/90° cpl
33793	Plug-in hose tail AS30/ø33/90° cpl
81119	Plug-in hose tail AS30/ø25 cpl
01399	Plug-in hose tail AS30/ø33 cpl



## P100

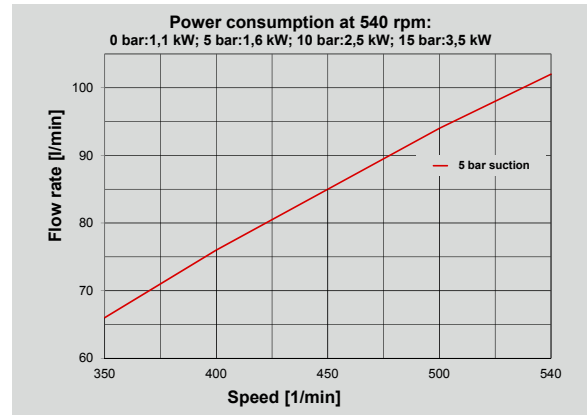
- linear steady state characteristics
- integrated hydraulic accumulator
- safe to run dry (liquid)
- self-priming up to 4 meters depth
- liquid fertiliser-proof (AHL/UAN)

Capacity at 5 bar:	100 litres/min
Nominal speed:	540 rpm
Operating time pressure:	max. 15 bar
Short-term pressure:	max. 20 bar
Speed range:	450-600 rpm
Spline shaft:	DIN 9611 / ISO 500
Standard working diaphragms:	2 x NBR
Accumulator diaphragms:	1 x NBR
Inlet-ø suction side:	AS40
Outlet-ø pressure side:	AS30
Lubrication:	Oil bath
Weight:	11,8 kg
Material:	Cast aluminium, partially anodised, NBR seals, POM, stainless steel: 1.4305

### Options:

- Desmopan® diaphragms
- Hydraulic drive

A	B	C	D1	D2	E <sub>Min</sub>	E <sub>Max</sub>	F	G
170	264	361	245	95	110	225	250	M12
specified in mm								



### Pump options

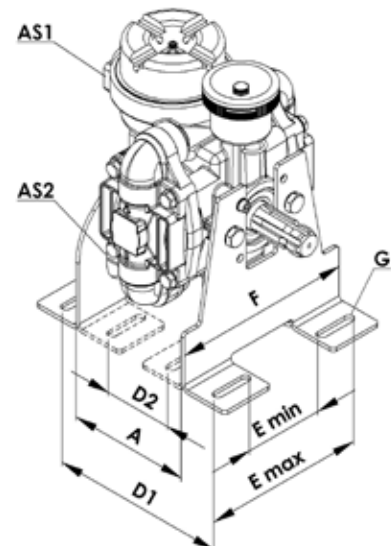
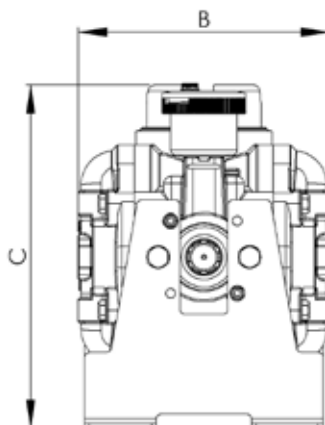
Article-No.	Type
83117	Piston diaphragm pump P100 with bracket and pto protection
More variations on request	

### Recommended fittings inlet (AS2)

17409	Plug-in hose tail AS40/ø46 cpl
08275	Plug-in hose tail AS40/ø39/90° cpl
06247	Plug-in hose tail AS40/ø39 cpl

### Recommended fittings outlet (AS1)

08337	Plug-in hose tail AS30/ø25/90° cpl
33793	Plug-in hose tail AS30/ø33/90° cpl
81119	Plug-in hose tail AS30/ø25 cpl
01399	Plug-in hose tail AS30/ø33 cpl





## P120

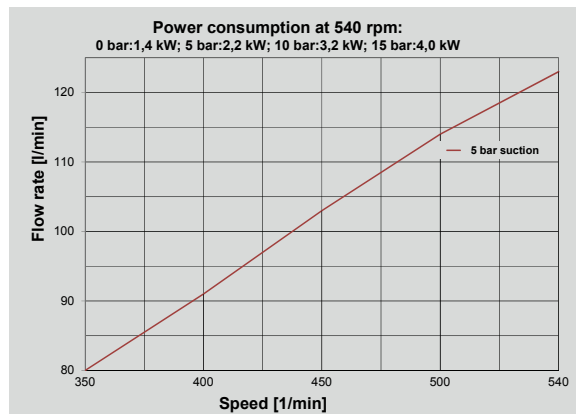
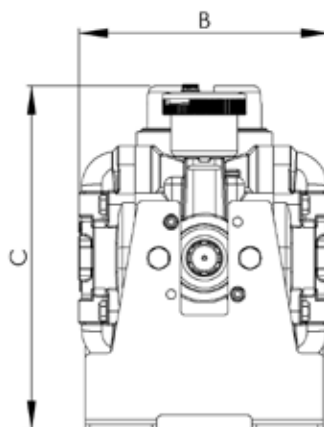
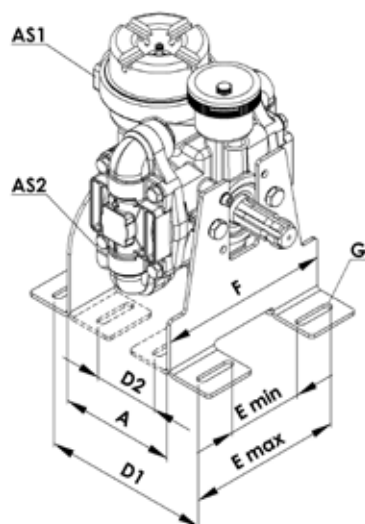
- linear steady state characteristics
- integrated hydraulic accumulator
- safe to run dry (liquid)
- self-priming up to 4 meters depth
- liquid fertiliser-proof (AHL/UAN)

Capacity at 5 bar:	120 l/min
Nominal speed:	540 U/min
Operating time pressure:	max. 15 bar
Short-term pressure:	max. 20 bar
Speed range:	450-600 U/min
Spline shaft:	DIN 9611/ISO 500
Standard working diaphragms:	2 x NBR
Accumulator diaphragms:	2 x NBR
Inlet-ø suction side:	AS50
Outlet-ø pressure side:	AS30
Lubrication:	Oil bath
Weight:	13,2 kg
Material:	Cast aluminium, partially anodised, NBR seals, POM, stainless steel: 1.4305

### Options:

- **Desmopan® diaphragms**
- **Hydraulic drive**

A	B	C	D1	D2	E <sub>Min</sub>	E <sub>Max</sub>	F	G
174	264	364	254	104	110	225	250	M12
Specified in mm								



### Pump options

Article-No.	Type
83035	Piston diaphragm pump P120 with bracket and pto protection
More variations on request	

### Recommended fittings inlet (AS2)

17157	Plug-in hose tail AS50/ø46 cpl
17330	Plug-in hose tail AS50/ø46/90° cpl
22040	Plug-in hose tail AS50/ø39 cpl
24891	Plug-in hose tail AS50/ø39/90° cpl

### Recommended fittings outlet (AS1)

08337	Plug-in hose tail AS30/ø25/90° cpl
33793	Plug-in hose tail AS30/ø33/90° cpl
81119	Plug-in hose tail AS30/ø25 cpl
01399	Plug-in hose tail AS30/ø33 cpl



## P150

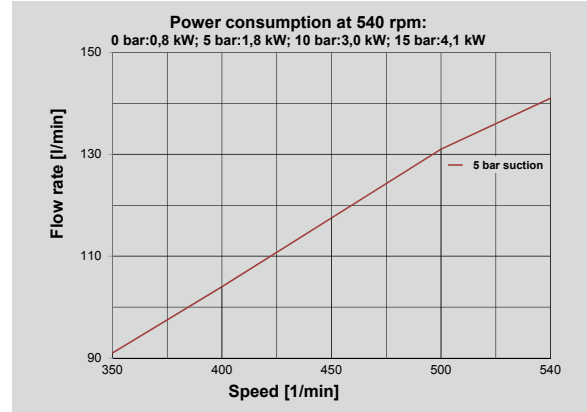
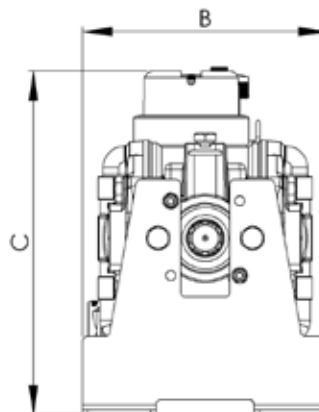
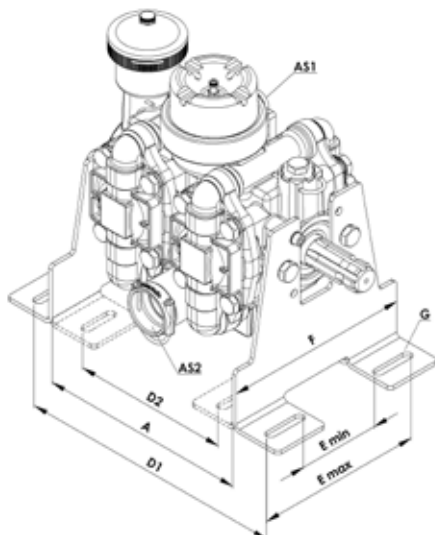
- linear steady state characteristics
- integrated hydraulic accumulator
- safe to run dry (liquid)
- self-priming up to 4 meters depth
- liquid fertiliser-proof (AHL/UAN)

Capacity at 5 bar:	150 l/min
Nominal speed:	540 U/min
Operating time pressure:	max. 15 bar
Short-term pressure:	max. 20 bar
Speed range:	450-600 U/min
Spline shaft:	DIN 9611/ISO 500
Standard working diaphragms:	4 x NBR
Accumulator diaphragms:	1 x NBR
Inlet-ø suction side:	AS50
Outlet-ø pressure side:	AS30
Lubrication:	Oil bath
Weight:	16,2 kg
Material:	Cast aluminium, partially anodised, NBR seals, POM, stainless steel: 1.4305

### Options:

- **Desmopan® diaphragms**
- **Hydraulic drive**

A	B	C	D1	D2	E <sub>Min</sub>	E <sub>Max</sub>	F	G
281	250	350,5	361	211	110	225	250	M12
Specified in mm								



### Pump options

Article-No.	Type
82378	Piston diaphragm pump P150 with bracket and pto protection
More variations on request	

### Recommended fittings inlet (AS2)

17157	Plug-in hose tail AS50/ø46 cpl
17330	Plug-in hose tail AS50/ø46/90° cpl
22040	Plug-in hose tail AS50/ø39 cpl
24891	Plug-in hose tail AS50/ø39/90° cpl

### Recommended fittings outlet (AS1)

08337	Plug-in hose tail AS30/ø25/90° cpl
33793	Plug-in hose tail AS30/ø33/90° cpl
81119	Plug-in hose tail AS30/ø25 cpl
01399	Plug-in hose tail AS30/ø33 cpl



## P200

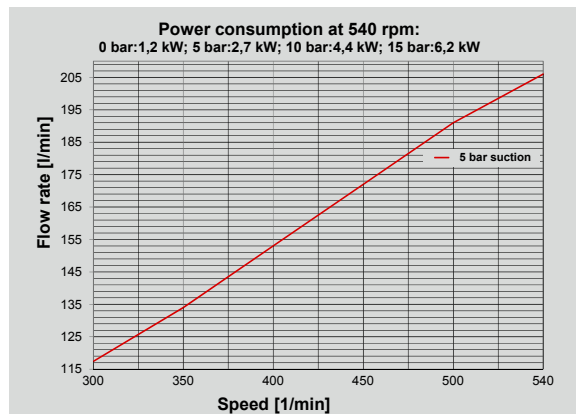
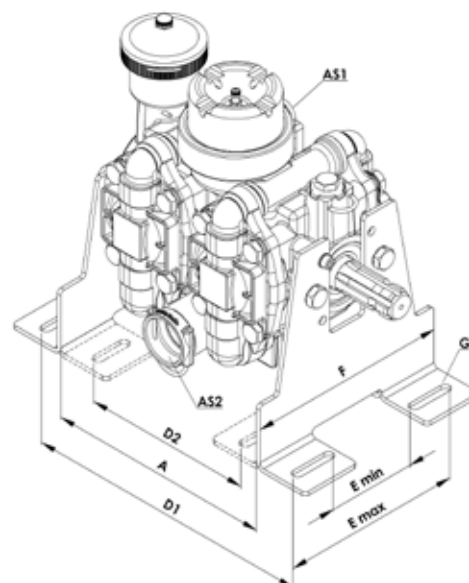
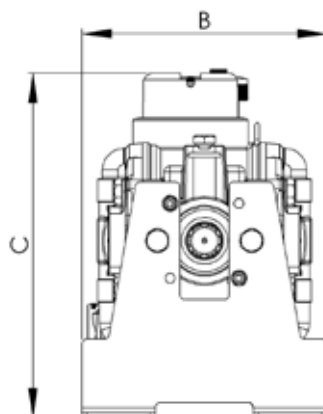
- linear steady state characteristics
- integrated hydraulic accumulator
- through shaft
- safe to run dry (liquid)
- self-priming up to 4 meters depth
- liquid fertiliser-proof (AHL/UAN)

Capacity at 5 bar:	200 l/min
Nominal speed:	540 U/min
Operating time pressure:	max. 15 bar
Short-term pressure:	max. 20 bar
Speed range:	450-600 U/min
Spline shaft:	DIN 9611/ISO 500
Standard working diaphragms:	4 x NBR
Accumulator diaphragms:	1 x NBR
Inlet-ø suction side:	AS50
Outlet-ø pressure side:	AS30
Lubrication:	Oil bath
Weight:	22 kg/26 kg
Material:	Cast aluminium, partially anodised, NBR seals, POM, stainless steel: 1.4305

### Options:

- **Desmopan® diaphragms**
- **Through shaft**
- **Hydraulic drive**

A	B	C	D1	D2	E <sub>Min</sub>	E <sub>Max</sub>	F	G
310	274	357	390	240	110	225	250	M12
Specified in mm								



### Pump options

Article-No.	Type
82406	Piston diaphragm pump P200 with bracket and pto protection
More variations on request	

### Recommended fittings inlet (AS2)

17330	Plug-in hose tail AS50/ø46/90° cpl
17157	Plug-in hose tail AS50/ø46 cpl

### Recommended fittings outlet (AS1)

08337	Plug-in hose tail AS30/ø25/90° cpl
33793	Plug-in hose tail AS30/ø33/90° cpl
81119	Plug-in hose tail AS30/ø25 cpl
01399	Plug-in hose tail AS30/ø33 cpl





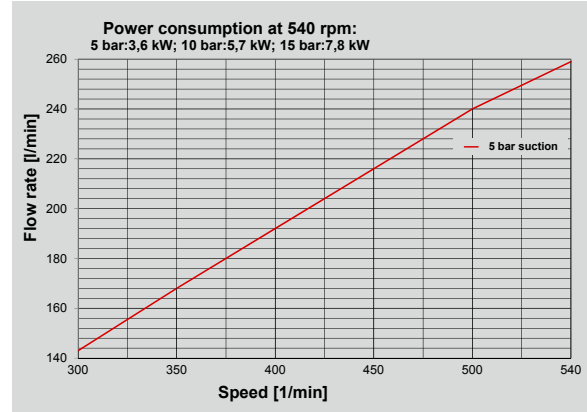
## P260

- linear steady state characteristics
- integrated hydraulic accumulator
- through shaft
- safe to run dry (liquid)
- self-priming up to 4 meters depth
- liquid fertiliser-proof (AHL/UAN)

Capacity at 5 bar:	260 l/min
Nominal speed:	540 U/min
Operating time pressure:	max. 15 bar
Short-term pressure:	max. 20 bar
Speed range:	450-600 U/min
Spline shaft:	DIN 9611/ISO 500
Standard working diaphragms:	4 x NBR
Accumulator diaphragms:	1 x NBR
Inlet-ø suction side:	G2 (BSP) male; d=47
Outlet-ø pressure side:	AS30
Lubrication:	Oil bath
Weight:	30 kg
Material:	Cast aluminium, partially anodised, NBR seals, POM, stainless steel: 1.4305

### Options:

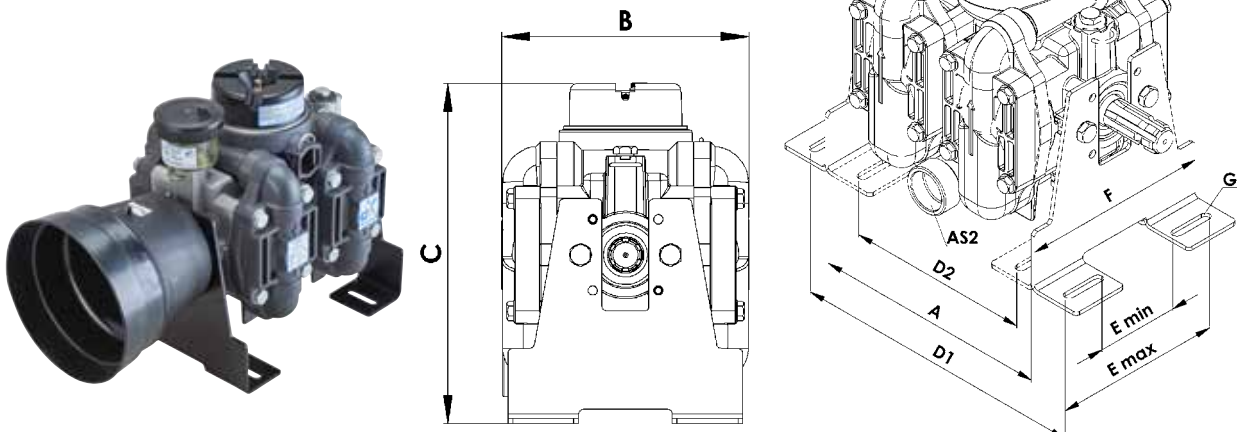
- **Desmopan® diaphragms**
- **Through shaft**
- **Hydraulic drive**



### Pump options

Article-No.	Type
82386	Piston diaphragm pump P260 with bracket and pto protection
82454	Piston diaphragm pump P260 with hydraulic motor OMR 50 and bracket
More variations on request	
Recommended fittings inlet (AS2)	
--	Fittings to suit G2 male
Recommended fittings outlet (AS1)	
33793	Plug-in hose tail AS30/ø33/90° cpl
01399	Plug-in hose tail AS30/ø33 cpl

A	B	C	D1	D2	E <sub>Min</sub>	E <sub>Max</sub>	F	G
316	264	360	396	246	110	225	250	M12
Specified in mm								





## P300

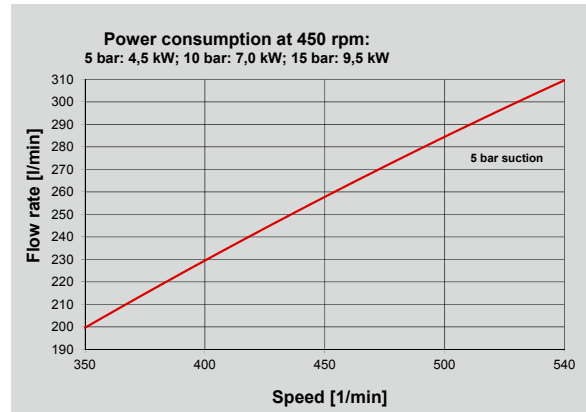
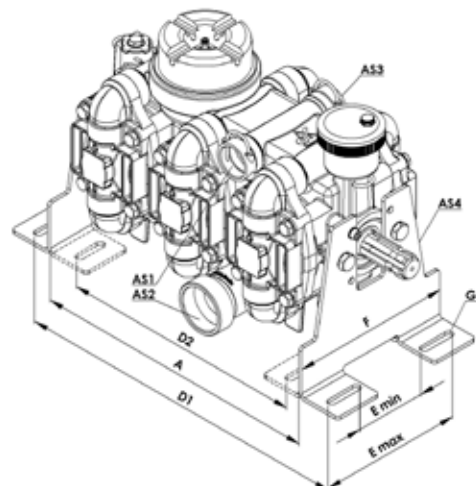
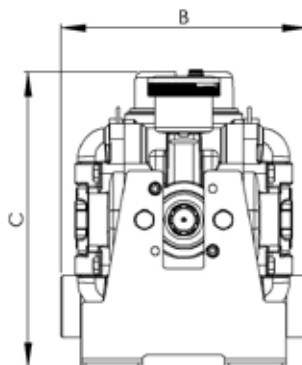
- linear steady state characteristics
- integrated hydraulic accumulator
- through shaft
- safe to run dry (liquid)
- self-priming up to 4 meters dept
- liquid fertiliser-proof (AHL/UAN)

Capacity at 5 bar:	300 l/min
Nominal speed:	540 U/min
Operating time pressure:	max. 15 bar
Short-term pressure:	max. 20 bar
Speed range:	450-600 U/min
Spline shaft:	DIN 9611/ISO 500
Standard working diaphragms:	6 x NBR
Accumulator diaphragms:	1 x NBR
Inlet-ø suction side:	2 x G2½ (BSP)
Outlet-ø pressure side:	AS40
Lubrication:	Oil bath
Weight:	38 kg
Material:	Cast aluminium, partially anodised, NBR seals, POM, stainless steel: 1.4305

### Options:

- **Desmopan® diaphragms**
- **Through shaft**
- **Hydraulic drive**
- **Through shaft**

A	B	C	D1	D2	E <sub>Min</sub>	E <sub>Max</sub>	F	G
450	300	360	530	390	110	225	250	M12
Specified in mm								



### Pump options

Article-No.	Type
81942	Piston diaphragm pump P300 with bracket and pto protection
More variations on request	
Recommended fittings inlet (AS2 and AS4)	
--	Fittings G2½ male
Recommended fittings outlet (AS1 and AS3)	
08874	Plug-in hose tail AS40/ø33/90° cpl
08275	Plug-in hose tail AS40/ø39/90° cpl
04581	Plug-in hose tail AS40/ø33 cpl
06247	Plug-in hose tail AS40/ø39 cpl
80333	Blank Plug AS40 cpl





## P380

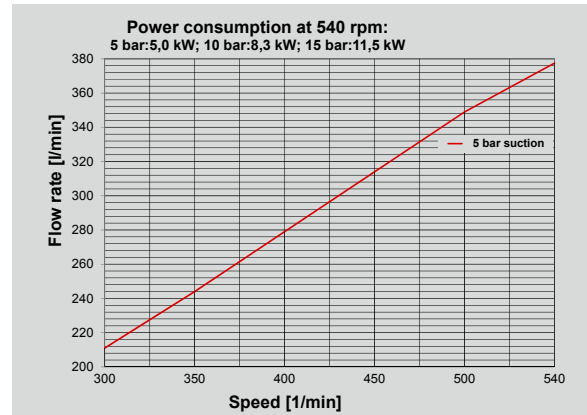
- linear steady state characteristics
- integrated hydraulic accumulator
- through shaft
- safe to run dry (liquid)
- self-priming up to 4 meters depth
- liquid fertiliser-proof (AHL/UAN)

Capacity at 5 bar:	380 l/min
Nominal speed:	540 U/min
Operating time pressure:	max. 15 bar
Short-term pressure:	max. 20 bar
Speed range:	450-600 U/min
Spline shaft:	DIN 9611/ISO 500
Standard working diaphragms:	6 x NBR
Accumulator diaphragms:	1 x NBR
Inlet-ø suction side:	2 x G2½ (BSP)
Outlet-ø pressure side:	2 x AS40
Lubrication:	Oil bath
Weight:	44 kg
Material:	Cast aluminium, partially anodised, NBR seals, POM, stainless steel: 1.4305

### Options:

- **Desmopan® diaphragms**
- **Through shaft**
- **Hydraulic drive**
- **Through shaft**

A	B	C	D1	D2	E <sub>Min</sub>	E <sub>Max</sub>	F	G
456	300	363	536	386	110	225	250	M12
Specified in mm								



### Pump options

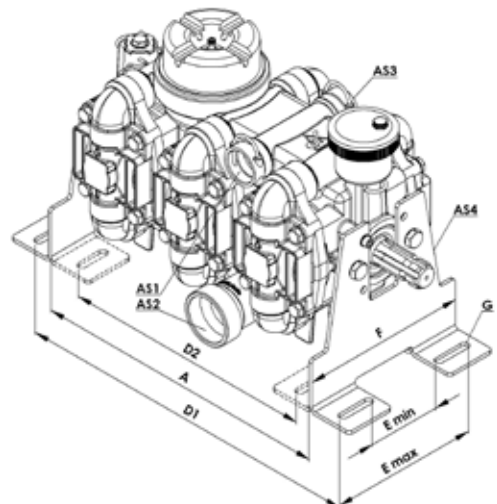
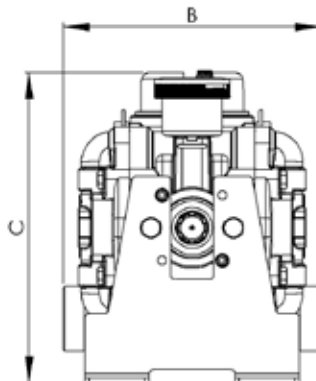
Article-No.	Type
83887	Piston diaphragm pump P380
83888	Piston diaphragm pump P380 with bracket and pto protection
82714	Piston diaphragm pump with hyd drive

### Recommended fittings inlet (AS2 and AS4)

--	Fittings G2½ male
----	-------------------

### Recommended fittings outlet (AS1 and AS3)

08874	Plug-in hose tail AS40/ø33/90° cpl
08275	Plug-in hose tail AS40/ø39/90° cpl
04581	Plug-in hose tail AS40/ø33 cpl
06247	Plug-in hose tail AS40/ø39 cpl
80333	Blank Plug AS40 cpl





## P200/P200

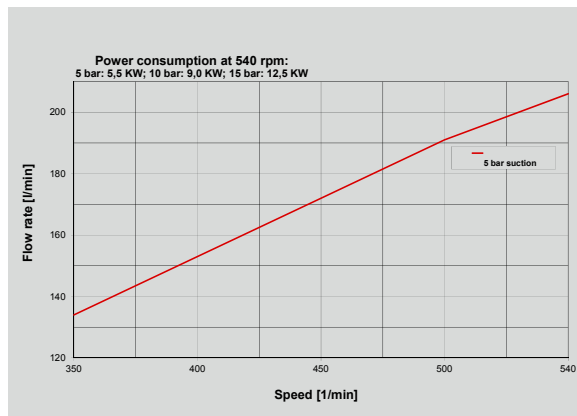
- linear steady state characteristics
- integrated hydraulic accumulator
- safe to run dry (liquid)
- self-priming up to 4 meters depth
- liquid fertiliser-proof (AHL/UAN)

Capacity at 5 bar:	2 x200 l/min
Nominal speed:	540 U/min
Operating time pressure:	max. 15 bar
Short-term pressure:	max. 20 bar
Speed range:	450-600 U/min
Spline shaft:	DIN 9611/ISO 500
Standard working diaphragms:	8 x NBR
Accumulator diaphragms:	2 x NBR
Inlet-ø suction side:	2 x AS50
Outlet-ø pressure side:	2 x AS30
Lubrication:	Oil bath
Weight:	49,6 kg
Material:	Cast aluminium, partially anodised, NBR seals, POM, stainless steel: 1.4305

### Options:

- **Desmopan® diaphragms**
- **Hydraulic drive**

A	B	C	D1	D2	E <sub>Min</sub>	E <sub>Max</sub>	F	G
590	283	357	670	520	110	225	250	M12
Specified in mm								



### Pump options

Article-No.	Type
83126	Piston diaphragm pump with bracket and pto protection with two separate P200/P200 out puts

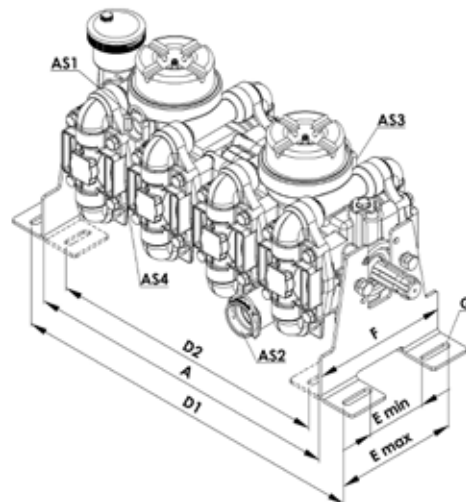
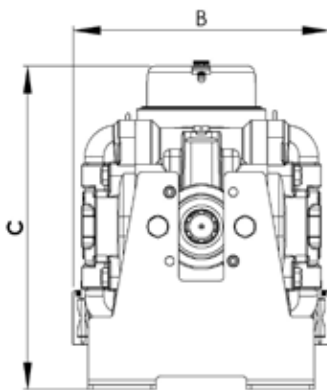
More variations on request

### Recommended fittings inlet (AS2 and AS4)

17330	Plug-in hose tail AS50/ø46/90° cpl
17157	Plug-in hose tail AS50/ø46 cpl

### Recommended fittings outlet (AS1 and AS3)

08337	Plug-in hose tail AS30/ø25/90° cpl
33793	Plug-in hose tail AS30/ø33/90° cpl
81119	Plug-in hose tail AS30/ø25 cpl
01399	Plug-in hose tail AS30/ø33 cpl





## P500

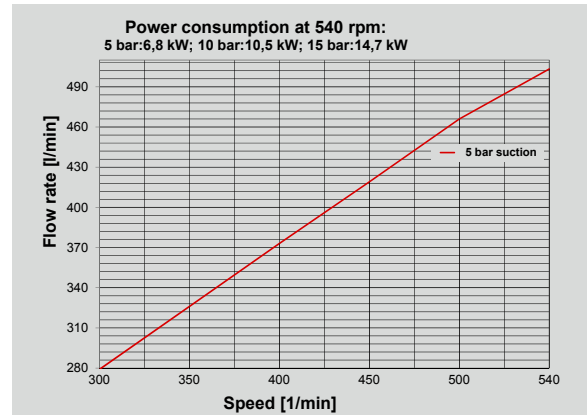
- linear steady state characteristics
- integrated hydraulic accumulator
- safe to run dry (liquid)
- self-priming up to 4 meters depth
- liquid fertiliser-proof (AHL/UAN)

Capacity at 5 bar:	500 l/min
Nominal speed:	540 U/min
Operating time pressure:	max. 15 bar
Short-term pressure:	max. 20 bar
Speed range:	450-600 U/min
Spline shaft:	DIN 9611/ISO 500
Standard working diaphragms:	8 x Desmopan®
Accumulator diaphragms:	1 x NBR
Inlet-Ø suction side:	2 x G3 male; d=75 mm
Outlet-Ø pressure side:	AS40
Lubrication:	Oil bath
Weight:	52,5 kg
Material:	Cast aluminium, partially anodised, NBR seals, POM, stainless steel: 1.4305

### Options:

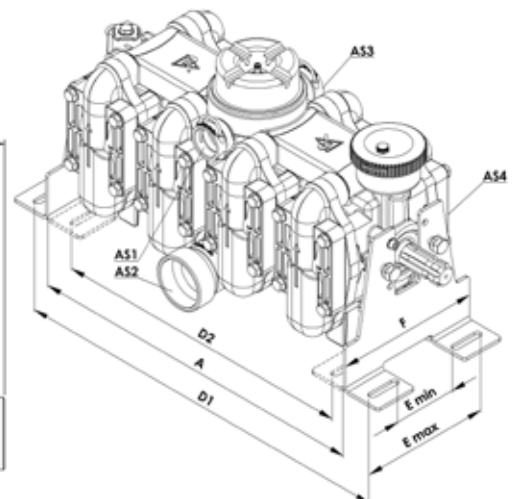
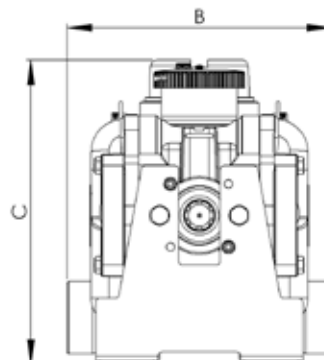
- NBR diaphragms
- Hydraulic drive

A	B	C	D1	D2	E <sub>Min</sub>	E <sub>Max</sub>	F	G
596	320	367,5	676	526	110	225	250	M12
Specified in mm								



### Pump options

Article-No.	Type
83528	Piston diaphragm pump P500 with bracket and pto protection
More variations on request	
Recommended fittings inlet (AS2 and AS4)	
--	Fittings to G3 male
Recommended fittings outlet (AS1 and AS3)	
08874	Plug-in hose tail AS40/Ø33/90° cpl
08275	Plug-in hose tail AS40/Ø39/90° cpl
04581	Plug-in hose tail AS40/Ø33 cpl
06247	Plug-in hose tail AS40/Ø39 cpl
80333	Blank Plug AS40 cpl





## P260/P260

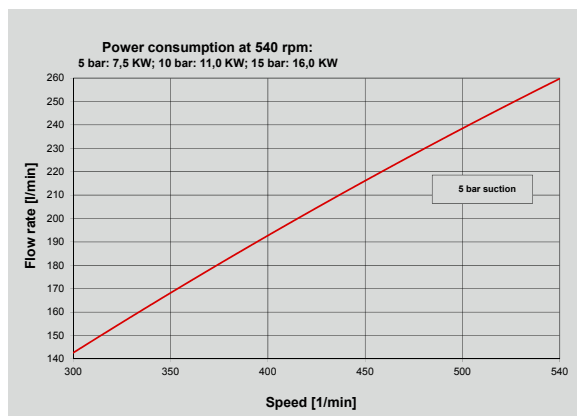
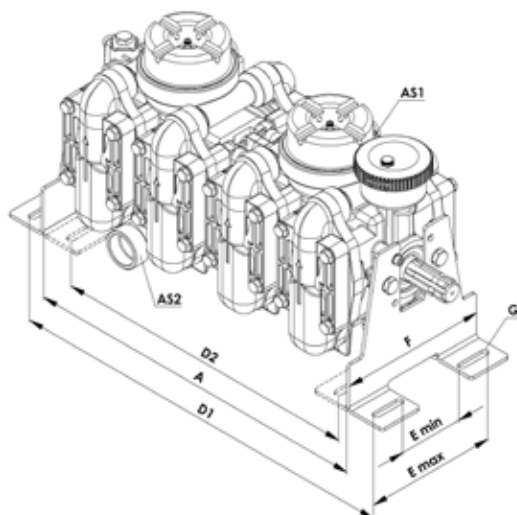
- linear steady state characteristics
- integrated hydraulic accumulator
- safe to run dry (liquid)
- self-priming up to 4 metres depth
- liquid fertiliser-proof (AHL/UAN)

Capacity at 5 bar:	2 x 260 l/min
Nominal speed:	540 U/min
Operating time pressure:	max. 15 bar
Short-term pressure:	max. 20 bar
Speed range:	450-600 U/min
Spline shaft:	DIN 9611/ISO 500
Standard working diaphragms:	8 x NBR
Accumulator diaphragms:	2 x NBR
Inlet-ø suction side:	2 x G2 male, d=47
Outlet-ø pressure side:	2 x AS30
Lubrication:	Oil bath
Weight:	56 kg
Material:	Cast aluminium, partially anodised, NBR seals, POM, stainless steel: 1.4305

### Options:

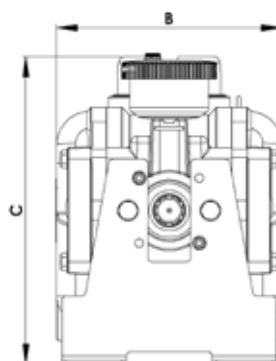
- Desmopan® diaphragms
- Hydraulic drive

A	B	C	D1	D2	E <sub>Min</sub>	E <sub>Max</sub>	F	G
596	262	360	676	526	110	225	250	M12
Specified in mm								



### Pump options

Article-No.	Type
83419	Kolbran pump P260/P260 with pto protection
More variations on request	
Recommended fittings inlet (AS2)	
--	Fittings G2 BSP male
Recommended fittings outlet (AS1)	
33793	Plug-in hose tail AS30/ø33/90° cpl
01399	Plug-in hose tail AS30/ø33 cpl





## P260/P260/P260

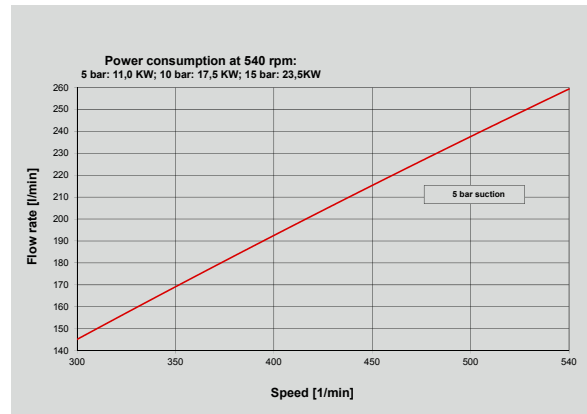
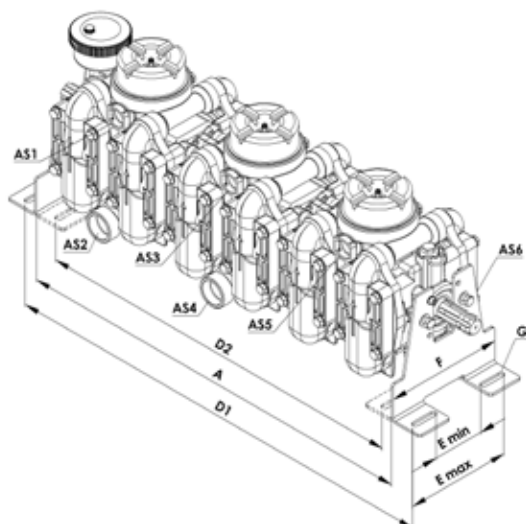
- linear steady state characteristics
- integrated hydraulic accumulator
- safe to run dry (liquid)
- self-priming up to 4 metres depth
- liquid fertiliser-proof (AHL/UAN)

Capacity at 5 bar:	3 x 260 l/min
Nominal speed:	540 U/min
Operating time pressure:	max. 15 bar
Short-term pressure:	max. 20 bar
Speed range:	450-600 U/min
Spline shaft:	DIN 9611/ISO 500
Standard working diaphragms:	12 Desmopan®
Accumulator diaphragms:	3 x NBR
Inlet-ø suction side:	3 x G2 male; d=47
Outlet-ø pressure side:	3 x AS30
Lubrication:	Oil bath
Weight:	86 kg
Material:	Cast aluminium, partially anodised, NBR seals, POM, stainless steel: 1.4305

### Options:

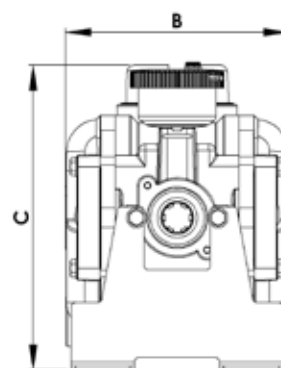
- Hydraulic drive

A	B	C	D1	D2	E <sub>Min</sub>	E <sub>Max</sub>	F	G
876	264	360	956	806	110	225	250	M12
Specified in mm								



### Pump options

Article-No.	Type
83347	piston diaphragm pump P260/P260/P260 with pto protection
More variations on request	
Recommended fittings inlet (AS2 / AS4 / AS6)	
--	Fittings to G3 male
Recommended fittings outlet (AS1 / AS2 / AS5)	
33793	Plug-in hose tail AS30/ø33/90° cpl
01399	Plug-in hose tail AS30/ø33 cpl







## Working diaphragms

- high durability
- materials for all purposes
- solvent proof
- low cost

Product	Article-No.	Type	Material	D mm	d mm
<b>1 Working diaphragms</b> 	80629	Diaphragm N P70/P150 with double-side lip and hole, standard series	NBR	106	--
	80630	Diaphragm N P100/P200/P300 with double-side lip and hole, standard series	NBR	121	--
	81522	Diaphragm N P120/P260/P380/P500 with double-side lip and hole, standard series	NBR	127	14
<b>2 Working diaphragms</b> 	83443	Diaphragm D-LL P70/P150 with double-side lip and hole	Desmopan®	106	14
	83441	Diaphragm D-LL P100/P200/P300 with double-side lip and hole,	Desmopan®	121	14
	83228	Diaphragm D-LL P120/P260/P380/P500 with double-side lip and hole	Desmopan®	127	14
<b>3.1 Working diaphragms</b> 	07239	Diaphragm N P70/P150 without hole	NBR	106	–
	22800	Diaphragm N P100/P200/P300 without hole	NBR	121	–
	19056	Diaphragm N P120 without hole	NBR	127	–
	80075	Diaphragm N P260/P380/P500 with hole and one-side lip	NBR	127	14
<b>3.2 Working diaphragms</b> 	13969	Diaphragm V P70/P150 without hole	Viton®	106	–
	19057	Diaphragm V P120 without hole	Viton®	127	–
<b>4 Accumulator diaphragms</b> 	02627	Accumulator diaphragms N P70/P150/P50	NBR	101	–
	02709	Accumulator diaphragms N P100/P120/P200/P260/P300/P380/P500	NBR	128	–





## Hydraulic drive P70–P380

- retrofitable to existing pumps
- hydraulic easy mounting of motors

P70–P380		
Article-No.	Type	Material
81572	Coupling hydraulic motor P70-P380	Steel
81574	Mounting flansh for hydraulic motor P70- P380	Aluminium
81576	Hydraulic motor OMR 50 151-0710	Steel
81571	Shim (4x)	Steel
02622	Bracket	Steel
47561	Bolt for bracket (2x)	Steel
02644	Bolt for mounting flansh for hydrulic motor (2x)	Steel



81574



81572



81576



81571



## Mounting parts hydraulic drive P500

- retrofitable to existing pumps
- hydraulic easy mounting of motors

> P500		
Article-No.	Type	Material
83442	Coupling for hydraulic motor P500	Steel
82607	Mounting flansh for hydraulic motor P500	Aluminium
83387	Hydraulic motor OMS 100	Steel
81571	Shim (4x)	Steel
02622	Bracket	Steel
47561	Bolt for bracket (2x)	Steel
02644	Bolt for mounting flansh for hydrulic motor (2x)	Steel



82607



83442



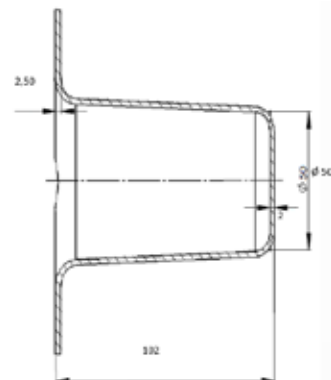
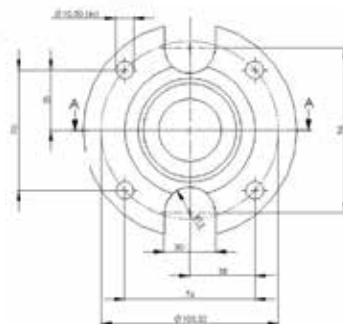
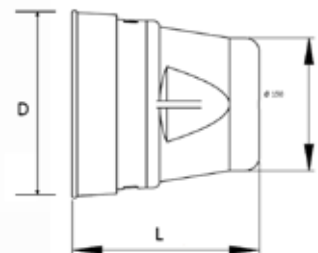
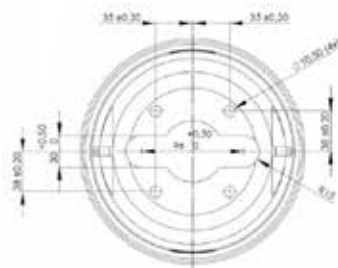
83387



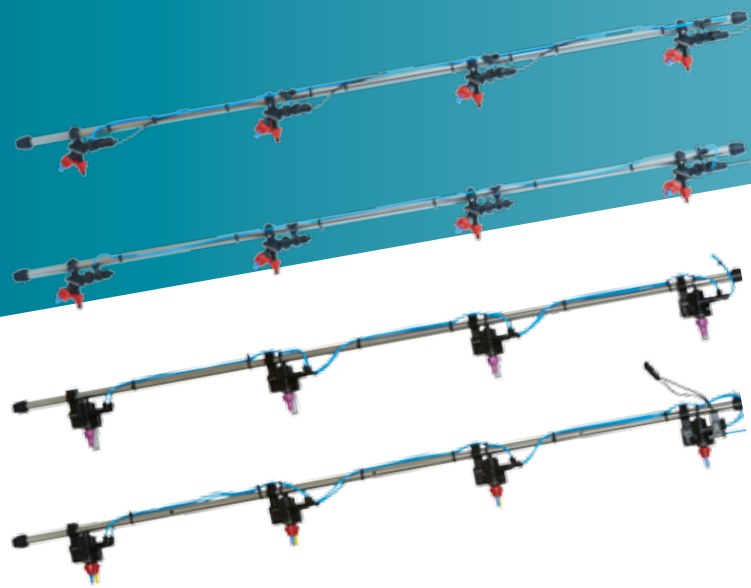
81571



Mounting parts pump variation	
Article-No.	Type
81568	Safety cap through drive pump
81595	Pto guard, D= 210 mm; L = 19 mm
83925	Pto guard, D= 260 mm; L = 210 mm







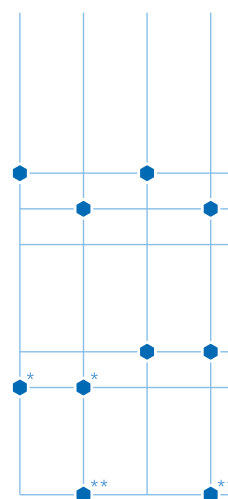
## Nozzle Body Control pneumatic / electro pneumatic / electric

As a specialist producer of precision application products, altek offers agricultural sprayer manufacturers a complete range of system solutions for nozzle body control.

From the reliable, cost-effective pneumatic shut-off valve "Spray-Stop" to the very latest electronic nozzle body control – altek is able to deliver.

For further information please ask a member of our experienced altek team to find the best solution to suit your requirements.

Spray-Stop  
Spray-Stop Direct Control Single/Master  
Multi-Spray Twin/Quad  
Multi-Spray Direct Control Master  
Twin/Quad and Single Twin/Quad



### Type

pneumatic  
electro pneumatic  
electric

### Nozzle Body

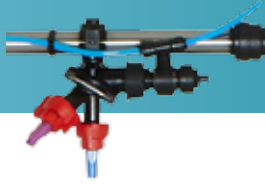
integrated  
retrofit

### Control

single nozzle control  
section control

\* Capable of fitting all common nozzle bodies

\*\* Additional controller, interface, CAN-Bus etc. required



## Nozzle Body Control

### Spray-Stop

**Pneumatic control valve, opens with air pressure and closes by mechanical spring pressure**

#### Specifications:

- Proven long life integrated altek piston / viton lip seal
- Pneumatic supply can be positioned through 360°
- Maximum spray liquid pressure: 12 bar
- Minimum pneumatic pressure: 4,5 bar
- Maximum pneumatic pressure: 6,5 bar
- Low air volume required: 1.570 mm<sup>3</sup>

#### System integration into the field sprayer:

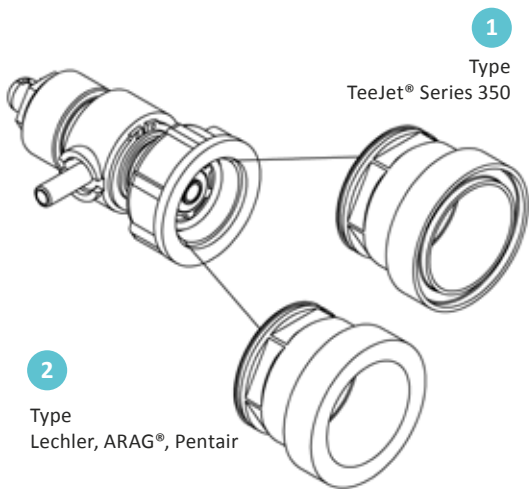
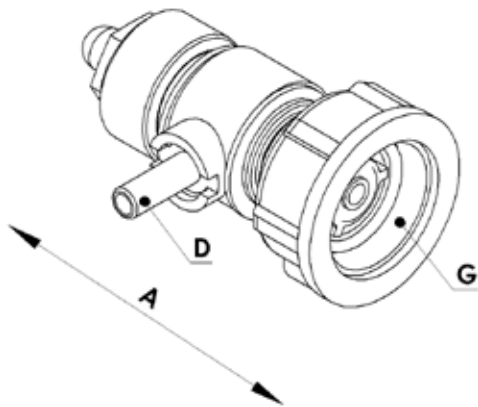
- Pneumatic supply required for ON/OFF control of each section
- Automatic rate controller required
- For OEM original fitment and retrofitting (fits all common nozzle bodies)
- Replaces the standard section valves and hoses
- Reduction in residual liquids, recirculation possible by mounting hoses in a ring line

#### Benefits for the end user:

- Fast and safe ON/OFF control reduces chance of over application
- Pressure recirculation system possible
- Instant liquid spray pressure at all nozzles when turning on (circulation system)
- Minimal residual chemicals = less waste, reduced costs and safer environment



# Spray-Stop



Spray-Stop					
Art-No.	Type	Type	A	D mm	G
83055	Spray-Stop cpl, 4 mm	2	73	Ø4	G¼
80923	Spray-Stop cpl, 6 mm	2	73	Ø6	G¼
83044	Spray-Stop cpl, 4 mm	1	73	Ø4	G¼
81375	Spray-Stop cpl, 6 mm	1	73	Ø6	G¼



### Spray-Stop Direct Control Master

**Master-Slave section control option capable of operating up to 8 standard Spray-Stops**

#### Specifications:

- Control current < 0,06A
- 12 V Voltage
- Pneumatic supply can be positioned through 360°
- Maximum spray liquid pressure: 12 bar
- Minimum pneumatic pressure: 4,5 bar
- Maximum pneumatic pressure: 6,5 bar

#### System integration into the field sprayer:

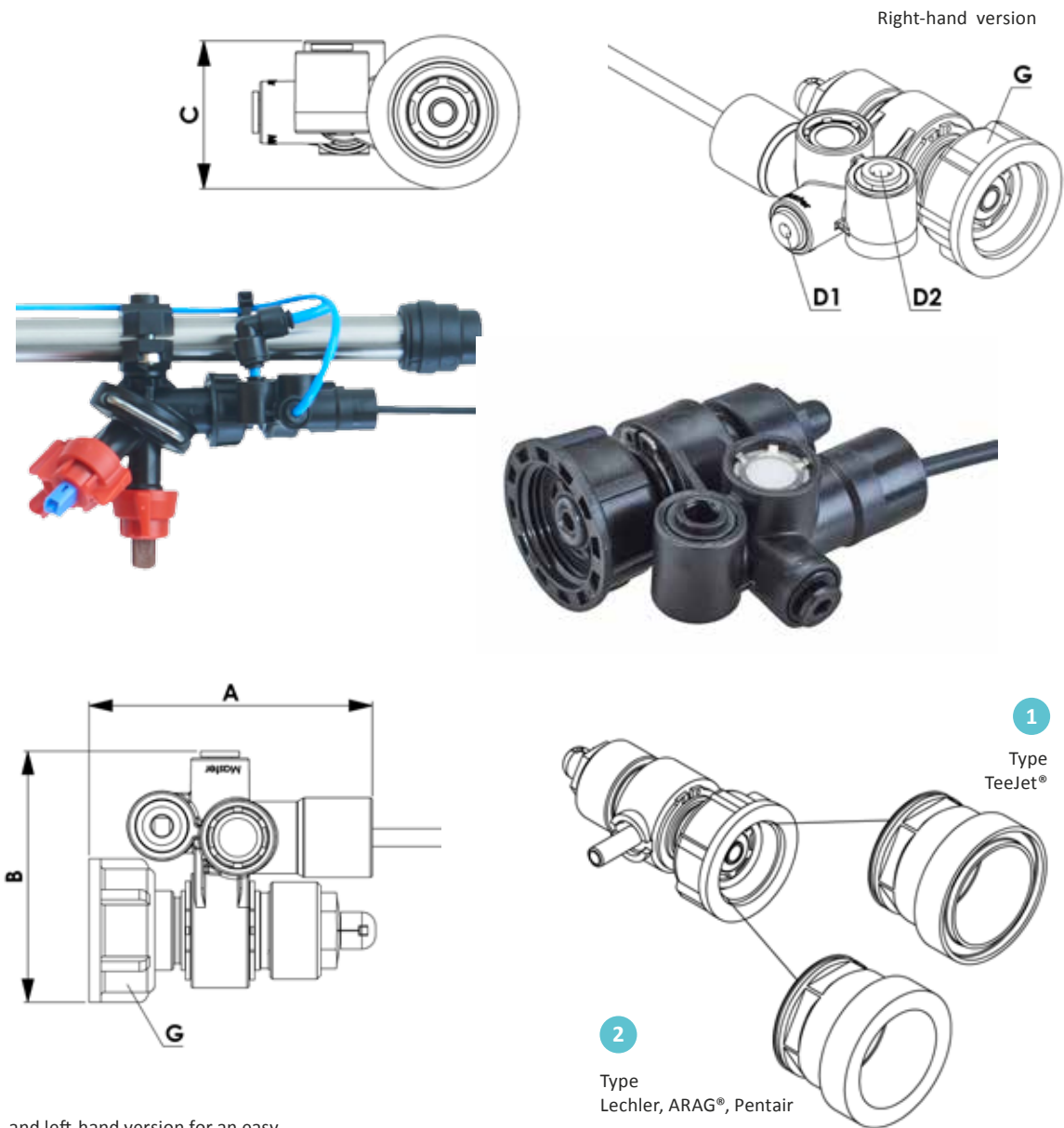
- For modern field sprayers with pneumatic supply and electronical control
- For OEM original fitment and retrofitting (fits all common nozzle bodies)
- Replaces the standard section valves and hoses
- Only one electrical line per section (Master-Slave version)
- Reduction in residual liquids, recirculation possible by mounting hoses in a ring line
- No additional electro pneumatic valve bank required
- Easy mounting of the pneumatic hoses
- Flexible configuration of the sections easily achieved

#### Benefits for the end user:

- Nozzle control is operated directly on the spray line
- Fast and safe ON/OFF control reduces chance of over application
- GPS section / individual nozzle control is possible (additional controllers required)
- Pressure recirculation system possible
- Instant liquid spray pressure at all nozzles when turning on (circulation system)
- Minimal residual chemicals = less waste, reduced costs and safer environment



# Spray-Stop Direct Control Master



Right- and left-hand version for an easy installation on the boom.

Spray-Stop Direct-Control Master								
Art-No.	Type	Type	A	B	C	D1 mm	D2 mm	G mm
83215	Direct-Control Master left	1	73	65	36	Ø4	Ø6	G¾
83214	Direct-Control Master right	1	73	65	36	Ø4	Ø6	G¾
84153	Direct-Control Master left	2	73	65	36	Ø4	Ø6	G¾
84152	Direct-Control Master right	2	73	65	36	Ø4	Ø6	G¾



## Spray-Stop Direct Control Single

**Spray-Stop with integrated electro pneumatic ON/OFF control of single nozzle body**

### Specifications:

- Control current < 0,06A
- 12 V Voltage
- Pneumatic supply can be positioned through 360°
- Maximum spray liquid pressure: 12 bar
- Minimum pneumatic pressure: 4,5 bar
- Maximum pneumatic pressure: 6,5 bar

### System integration into the field sprayer:

- For modern field sprayers with pneumatic supply and electronical control
- For OEM original fitment and retrofitting (fits all common nozzle bodies)
- Replaces the standard section valves and hoses
- Only one electrical line per section (Master-Slave version)
- Reduction in residual liquids, recirculation possible by mounting hoses in a ring line
- No additional electro pneumatic valve bank required
- Easy mounting of the pneumatic hoses
- Flexible configuration of the sections easily achieved

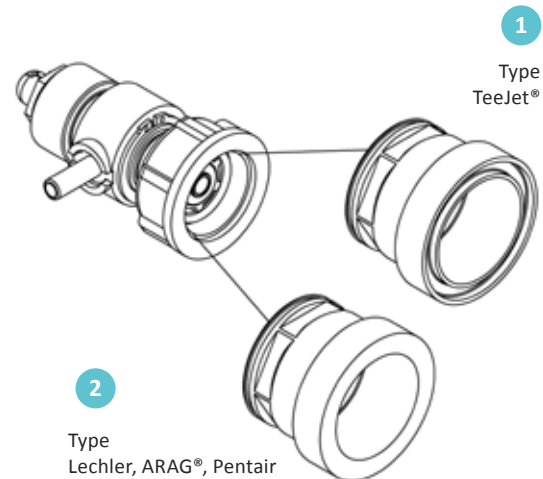
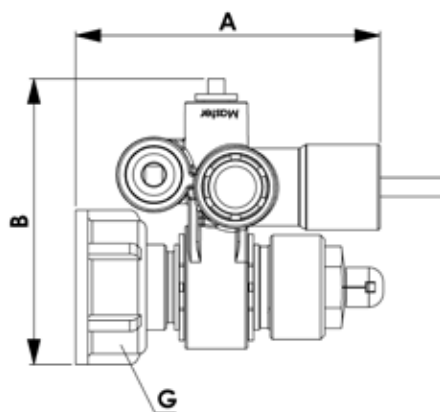
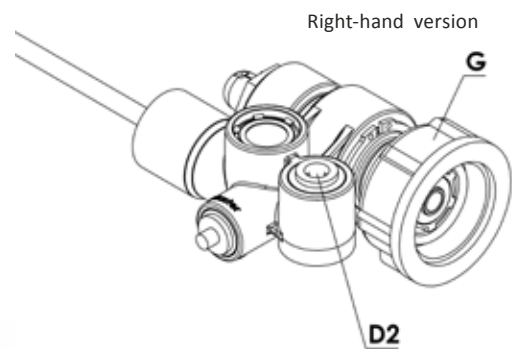
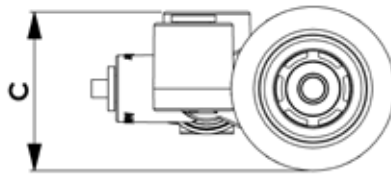
### Benefits for the end user:

- Dozzle control is operated directly on the spray line
- Fast and safe ON/OFF control reduces chance of overapplication
- GPS section / individual nozzle control is possible (additional controllers required)
- Pressure recirculation system possible
- Instant liquid spray pressure at all nozzles when turning on (circulation system)
- Minimal residual chemicals = less waste, reduced costs and safer environment



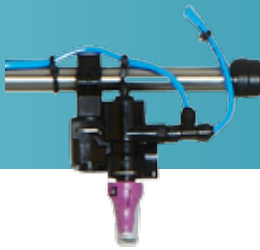


# Spray-Stop Direct Control Single



Right- and left-hand version for an easy installation on the boom.

Spray-Stop Direct-Control Single								
Art-No.	Type	Type	A mm	B mm	C mm	D1 mm	D2 mm	G mm
83219	Direct-Control cpl left	1	73	68,5	36	--	Ø6	G¾
83218	Direct-Control cpl right	1	73	68,5	36	--	Ø6	G¾
83217	Direct-Control cpl left	2	73	68,5	36	--	Ø6	G¾
83216	Direct-Control cpl right	2	73	68,5	36	--	Ø6	G¾



### Multi-Spray Twin

**Pneumatic nozzle body, opens with air pressure and closes by mechanical spring pressure**

#### Specifications:

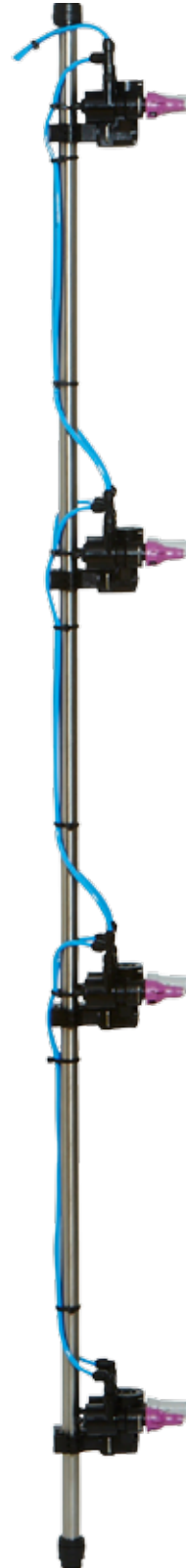
- Each line can be operated either independently or combined (Twin = 2 lines)
- Proven long life integrated altek piston / viton lip seal
- Manual nozzle selection / variable rate operation possible
- Maximum spray liquid pressure: 15 bar
- Minimum pneumatic pressure: 4,5 bar
- Maximum pneumatic pressure: 6,5 bar
- Low air volume required: 4.770 mm<sup>3</sup>

#### System integration into the field sprayer:

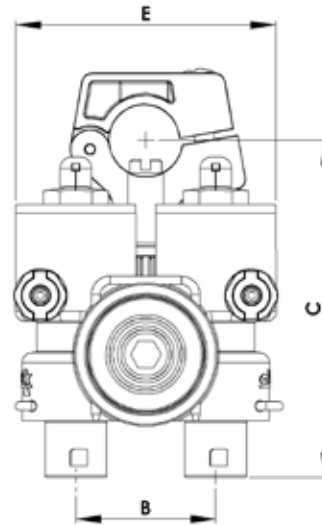
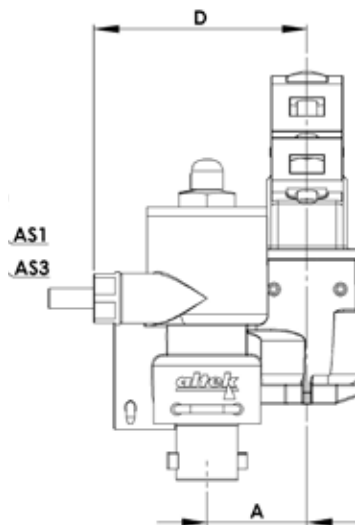
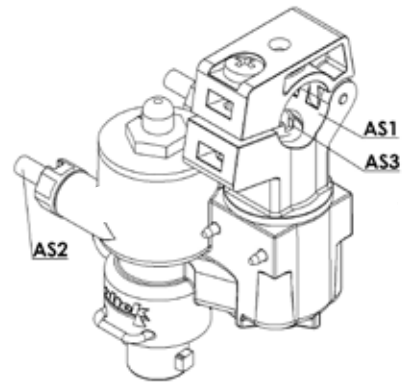
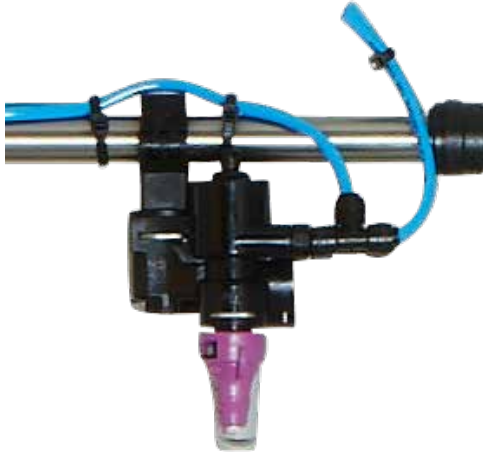
- For OEM original fitment and retrofitting
- Replaces the standard section valves and hoses
- Reduction in residual liquids, recirculation possible by mounting hoses in a ring line
- Infrastructure/facilities for pneumatic required for ON/OFF control

#### Benefits for the end user:

- Ideal for spray operators requiring different application rates/drop sizes/fast and easy nozzle change
- Safe OFF control up to 15 bar spraying pressure
- Fast and safe ON/OFF control reduces chance of overapplication
- Selective manual or automatic nozzle-switching is possible, depending on the electronic equipment
- Pressure recirculation system possible
- Minimal residual chemicals = less waste, reduced costs and safer environment

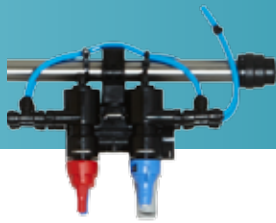


# Multi-Spray Twin



Multi-Spray Twin nozzle position 0°/0°

Art-No.	Type	A mm	B mm	C mm	D mm	E mm	AS1 mm	AS2 mm	AS3 mm
82059	Multi-Spray 2N; ½" ; Ø9,5	30	42	103	64	78	½"	Ø6	Ø9,5
82060	Multi-Spray 2N; 20mm; Ø9,5	30	42	102	64	78	20	Ø6	Ø9,5
82061	Multi-Spray 2N; ¾" ; Ø9,5	30	42	109	64	78	¾"	Ø6	Ø9,5
82062	Multi-Spray 2N; ¾" ; Ø11	30	42	109	64	78	¾"	Ø6	Ø11
82063	Multi-Spray 2N; 1" ; Ø9,5	30	42	114	64	78	1"	Ø6	Ø9,5
82064	Multi-Spray 2N; 1" ; Ø11	30	42	114	64	78	1"	Ø6	Ø11



## Nozzle Body Control

### Multi-Spray Quad

**Pneumatic nozzle body, opens with air pressure and closes by mechanical spring pressure**

#### Specifications:

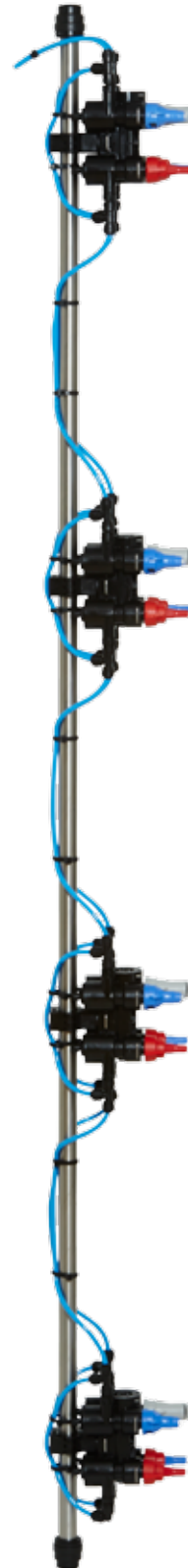
- Each line can be operated either independently or combined (Quad = 4 lines)
- Proven long life integrated altek piston / viton lip seal
- Manual nozzle selection / variable rate operation possible
- Maximum spray liquid pressure: 15 bar
- Minimum pneumatic pressure: 4,5 bar
- Maximum pneumatic pressure: 6,5 bar
- Low air volume required: 4.770 mm<sup>3</sup>

#### System integration into the field sprayer:

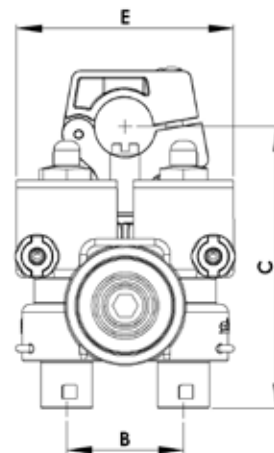
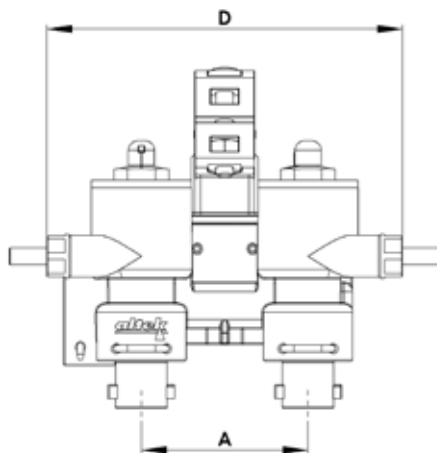
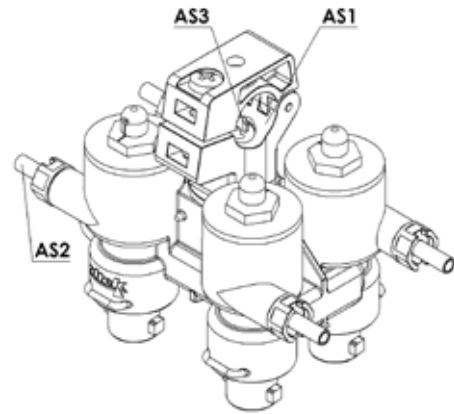
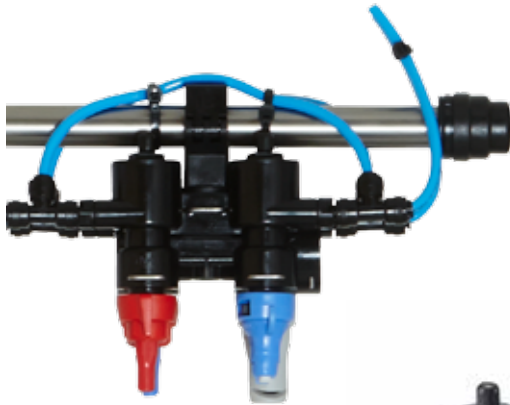
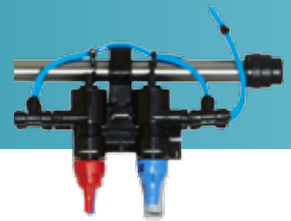
- For OEM original fitment and retrofitting
- Replaces the standard section valves and hoses
- Reduction in residual liquids, recirculation possible by mounting hoses in a ring line
- Infrastructure/facilities for pneumatic required for ON/OFF control

#### Benefits for the end user:

- Ideal for spray operators requiring different application rates/drop sizes/fast and easy nozzle change
- Safe OFF control up to 15 bar spraying pressure
- Fast and safe ON/OFF control reduces chance of overapplication
- Selective manual or automatic nozzle-switching is possible, depending on the electronic equipment
- Pressure recirculation system possible
- Minimal residual chemicals = less waste, reduced costs and safer environment



# Multi-Spray Quad



## Muti-Spray Twin nozzle position 0°/0°

Art-No.	Type	A mm	B mm	C mm	D mm	E mm	AS1 mm	AS2 mm	AS3 mm
82113	Multi-Spray 4N; ½" ; Ø9,5	60	42	103	128	64	½"	78	Ø9,5
82114	Multi-Spray 4N; 20mm; Ø9,5	60	42	102	128	64	20	78	Ø9,5
82115	Multi-Spray 4N; ¾" ; Ø9,5	60	42	109	128	64	¾"	78	Ø9,5
82116	Multi-Spray 4N; ¾" ; Ø11	60	42	109	128	64	¾"	78	Ø11
82117	Multi-Spray 4N; 1" ; Ø9,5	60	42	114	128	64	1"	78	Ø9,5
82118	Multi-Spray 4N; 1" ; Ø11	60	42	114	128	64	1"	78	Ø11



### Multi-Spray Direct Control Master Twin

**Master-Slave section control option capable of operating up to 8 standard Multi-Spray bodies**

#### Specifications:

- Electro pneumatic valve for ON and OFF operation is mounted directly on the nozzle body
- Control current < 0,06A
- 12 V Voltage
- Maximum spray liquid pressure: 15 bar
- Minimum pneumatic pressure: 4,5 bar
- Maximum pneumatic pressure: 6,5 bar

#### System integration into the field sprayer:

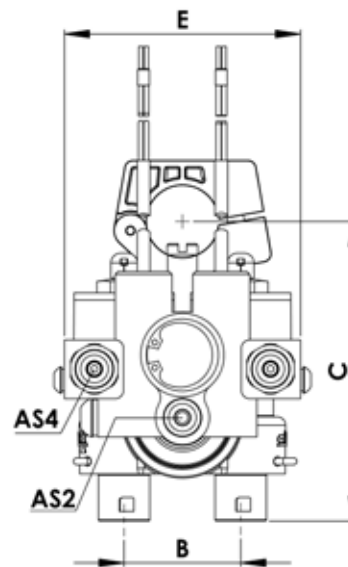
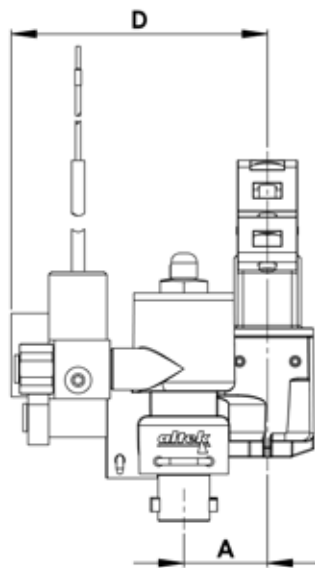
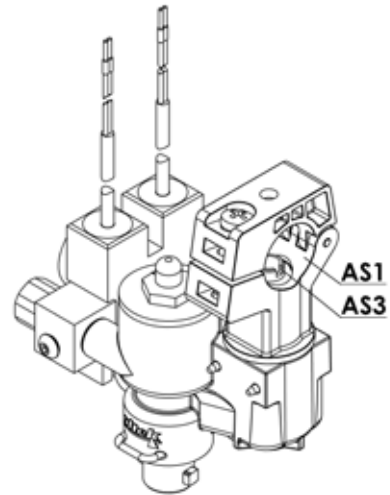
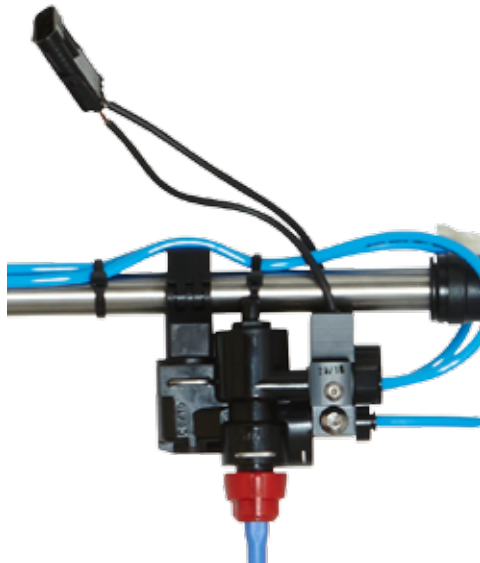
- For OEM original fitment and retrofitting
- Replaces the standard section valves and hoses
- Only one electrical line per orifice and section required (Master-Slave version)
- Reduction in residual liquids, recirculation possible by mounting hoses in a ring line
- No additional electro pneumatic valve bank required
- Easy mounting of the pneumatic hoses
- Individual nozzle control possible with additional controller

#### Benefits for the end user:

- Ideal for spray operators requiring different application rates/drop sizes/fast and easy nozzle change
- Nozzle control is operated directly on the spray line
- Fast and safe ON/OFF control reduces chance of overapplication
- Selective manual or automatic nozzle-switching is possible, depending on the electronic equipment
- GPS-controlled single nozzle or section control is possible with additional controllers
- Instant liquid spray pressure at all nozzles when turning on (circulation system)
- Pressure recirculation system possible
- Minimal residual chemicals = less waste, reduced costs and safer environment



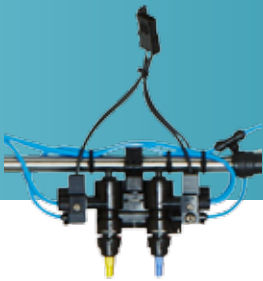
# Multi-Spray Direct Control Master Twin



## Multi-Spray Direct Control Master Twin

Art-No.	Type	A mm	B mm	C mm	D mm	E mm	AS1 mm	AS2 mm	AS3 mm	AS4 mm
83771	Multi-Spray Master Valve Valve 2N; 20 mm; Ø9,5	30	42	109	92	85	20	Ø6	Ø9,5	Ø6
83818	Multi-Spray Master Valve Valve 2N; ¾"; Ø9,5	30	42	109	92	85	¾"	Ø6	Ø9,5	Ø6
84069	Multi-Spray Master Valve Valve 2N; ¾" ; Ø11	30	42	109	92	85	¾"	Ø6	Ø11	Ø6





### Multi-Spray Direct Control Master Quad

**Master-Slave section control option capable of operating up to 8 standard Multi-Spray bodies**

#### Specifications:

- Electro pneumatic valve for ON and OFF operation is mounted directly on the nozzle body
- Control current < 0,06A
- 12 V Voltage
- Maximum spray liquid pressure: 15 bar
- Minimum pneumatic pressure: 4,5 bar
- Maximum pneumatic pressure: 6,5 bar

#### System integration into the field sprayer:

- For OEM original fitment and retrofitting
- Replaces the standard section valves and hoses
- Only one electrical line per orifice and section required (Master-Slave version)
- Reduction in residual liquids, recirculation possible by mounting hoses in a ring line
- No additional electro pneumatic valve bank required
- Easy mounting of the pneumatic hoses
- Individual nozzle control possible with additional controller

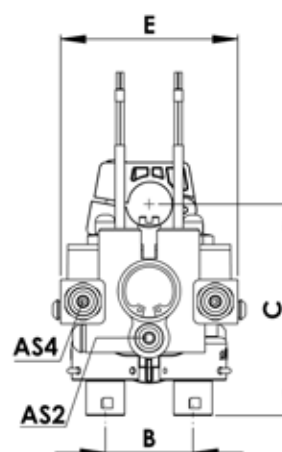
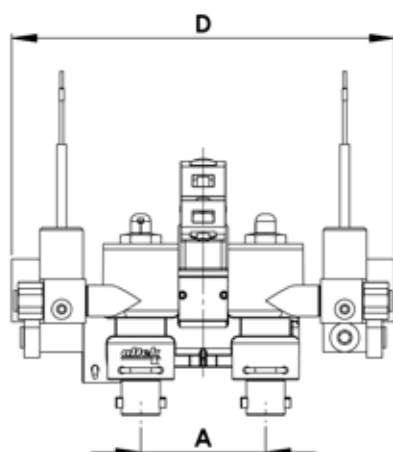
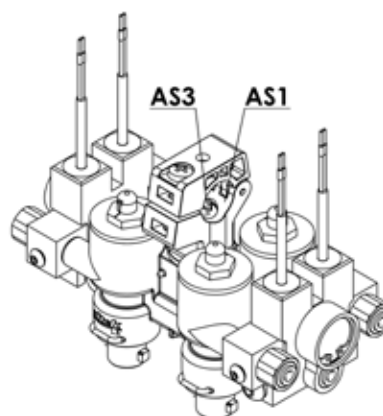
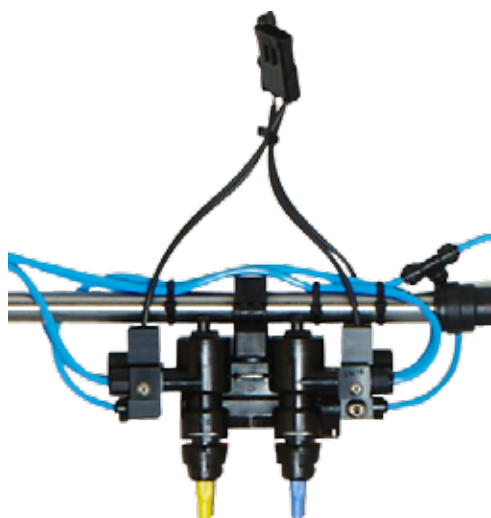
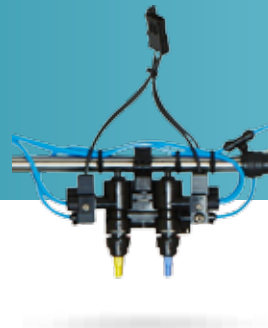
#### Benefits for the end user:

- Ideal for spray operators requiring different application rates/drop sizes/fast and easy nozzle change
- Nozzle control is operated directly on the spray line
- Fast and safe ON/OFF control reduces chance of overapplication
- Selective manual or automatic nozzle-switching is possible, depending on the electronic equipment
- GPS-controlled single nozzle or section control is possible with additional controllers
- Instant liquid spray pressure at all nozzles when turning on (circulation system)
- Pressure recirculation system possible
- Minimal residual chemicals = less waste, reduced costs and safer environment





# Multi-Spray Direct Control Master Quad



## Multi-Spray Direct Control Master Quad

Art-No.	Type	A mm	B mm	C mm	D mm	E mm	AS1 mm	AS2 mm	AS3 mm	AS4 mm
83935	Multi-Spray Master Valve 4N; ½"; Ø9,5	60	42	103	184	85	½"	Ø6	Ø9,5	Ø6



### Multi-Spray Direct Control Single Twin

**Pneumatic nozzle body with additional electro pneumatic valves mounted on the body**

#### Specifications:

- Electro pneumatic valve for ON and OFF operation is mounted directly on the nozzle body
- Control current < 0,06A
- 12 V Voltage
- Maximum spray liquid pressure: 15 bar
- Minimum pneumatic pressure: 4,5 bar
- Maximum pneumatic pressure: 6,5 bar

#### System integration into the field sprayer:

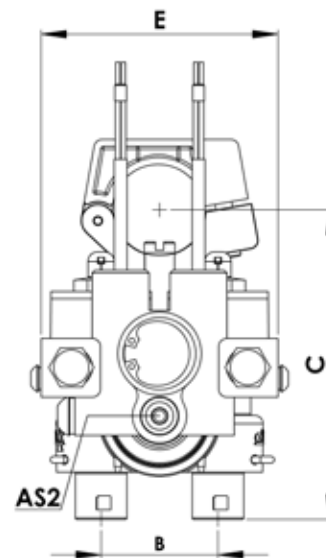
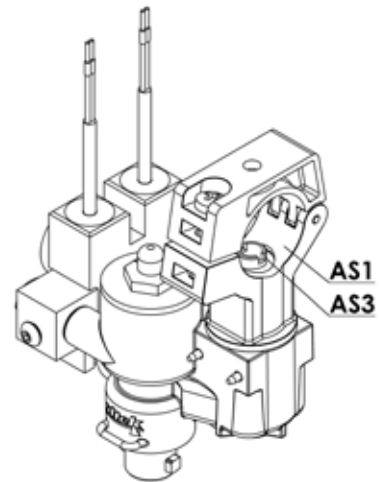
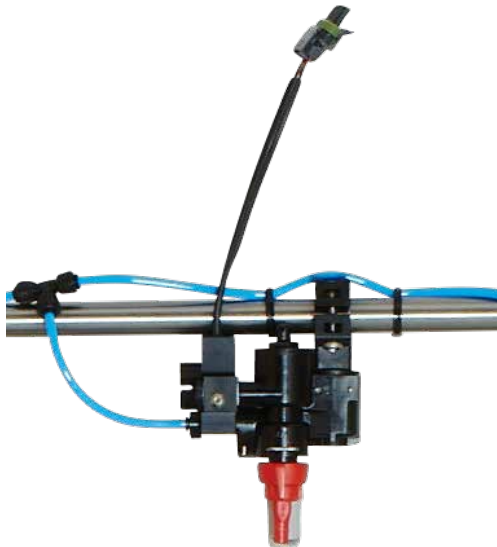
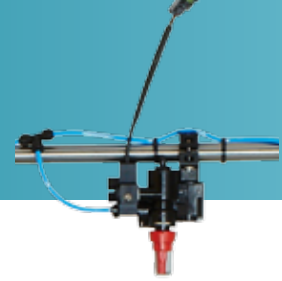
- For OEM original fitment and retrofitting
- Replaces the standard section valves and hoses
- Only one electrical line per orifice and section required (Master-Slave version)
- Reduction in residual liquids, recirculation possible by mounting hoses in a ring line
- No additional electropneumatic valve bank required
- Easy mounting of the pneumatic hoses
- Individual nozzle control possible with additional controller

#### Benefits for the end user:

- Ideal for spray operators requiring different application rates/drop sizes/fast and easy nozzle change
- Nozzle control is operated directly on the spray line
- Fast and safe ON/OFF control reduces chance of overapplication
- Selective manual or automatic nozzle-switching is possible, depending on the electronic equipment
- GPS-controlled single nozzle or section control is possible with additional controllers
- Instant liquid spray pressure at all nozzles when turning on (circulation system)
- Pressure recirculation system possible
- Minimal residual chemicals = less waste, reduced costs and safer environment

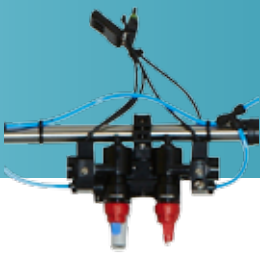


# Multi-Spray Direct Control Single Twin



## Multi-Spray Direct Control Single Twin position 0°/0°

Art-No.	Type	A mm	B mm	C mm	D mm	E mm	AS1 mm	AS2 mm	AS3 mm
83303	Multi-Spray Direct-Control 2N; ½" ; Ø9,5	30	42	103	92	85	½"	Ø6	Ø9,5
83304	Multi-Spray Direct-Control 2N; ¾" ; Ø9,5	30	42	109	92	85	¾"	Ø6	Ø9,5
83305	Multi-Spray Direct-Control 2N; ¾" ; Ø11	30	42	109	92	85	¾"	Ø6	Ø11
83306	Multi-Spray Direct-Control 2N; 1" ; Ø9,5	30	42	114	92	85	1"	Ø6	Ø9,5
83307	Multi-Spray Direct-Control 2N; 1" ; Ø11	30	42	114	92	85	1"	Ø6	Ø11



## Multi-Spray Direct Control Quad

**Pneumatic nozzle body with additional electro pneumatic valves mounted on the body**

### Specifications:

- Electropneumatic valve for ON and OFF operation is mounted directly on the nozzle body
- Control current < 0,06A
- 12 V Voltage
- Maximum spray liquid pressure: 15 bar
- Minimum pneumatic pressure: 4,5 bar
- Maximum pneumatic pressure: 6,5 bar

### System integration into the field sprayer:

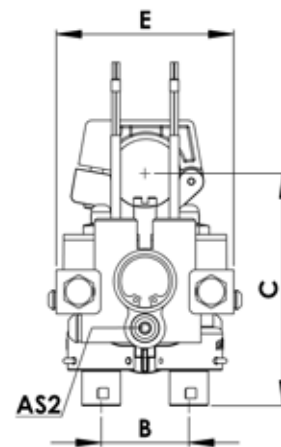
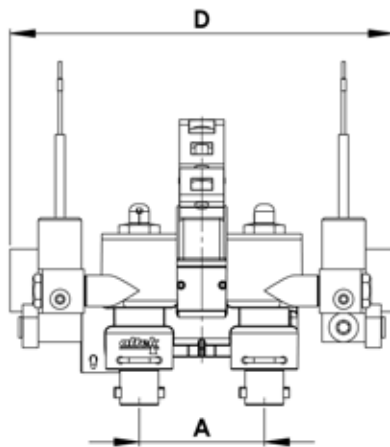
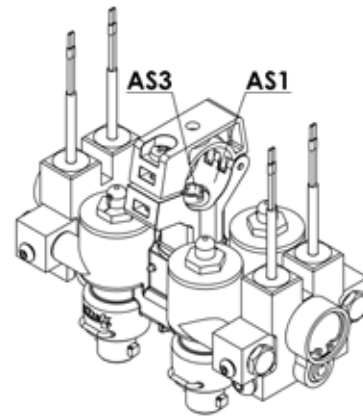
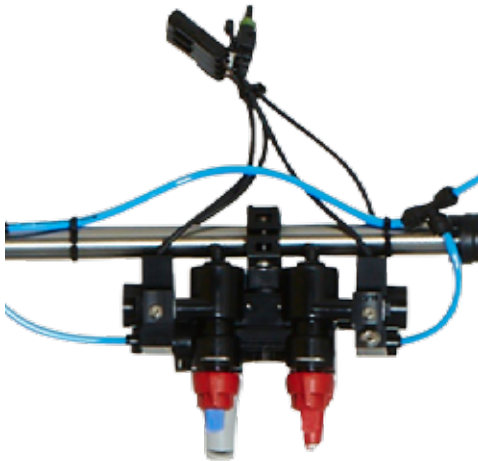
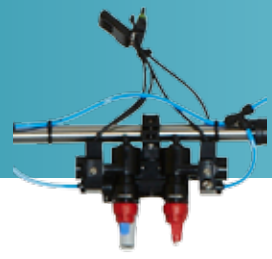
- For OEM original fitment and retrofitting
- Replaces the standard section valves and hoses
- Only one electrical line per orifice and section required (Master-Slave version)
- Reduction in residual liquids, recirculation possible by mounting hoses in a ring line
- No additional electropneumatic valve bank required
- Easy mounting of the pneumatic hoses
- Individual nozzle control possible with additional controller

### Benefits for the end user:

- Ideal for spray operators requiring different application rates/drop sizes/fast and easy nozzle change
- Nozzle control is operated directly on the spray line
- Fast and safe ON/OFF control reduces chance of overapplication
- Selective manual or automatic nozzle-switching is possible, depending on the electronic equipment
- GPS-controlled single nozzle or section control is possible with additional controllers
- Instant liquid spray pressure at all nozzles when turning on (circulation system)
- Pressure recirculation system possible
- Minimal residual chemicals = less waste, reduced costs and safer environment



# Multi-Spray Direct Control Quad



## Multi-Spray Direct Control Quad position 0°/0°

Art-No.	Type	A mm	B mm	C mm	D mm	E mm	AS1 mm	AS2 mm	AS3 mm
83253	Multi-Spray Direct-Control 4N; ½" ; Ø9,5	60	42	103	184	85	½"	Ø6	Ø9,5
83254	Multi-Spray Direct-Control 4N; ¾" ; Ø9,5	60	42	109	184	85	½"	Ø6	Ø9,5
83255	Multi-Spray Direct-Control 4N; ¾" ; Ø11	60	42	109	184	85	¾"	Ø6	Ø11
83256	Multi-Spray Direct-Control 4N; 1" ; Ø9,5	60	42	114	184	85	1"	Ø6	Ø9,5
83257	Multi-Spray Direct-Control 4N; 1" ; Ø11	60	42	114	184	85	1"	Ø6	Ø11





## Electrical Boom Section Valve Modular-Fit / Quick-Fit

The modular construction of altek's valves allows unlimited configuration possibilities for section valves. The variants range from a simple "shut off valve" for 13 mm hose line, up to complete boom section assembly with

integrated constant pressure system and integrated pressure relief. The electrical connection can be carried out through connection via cable, by cube plug DIN 175301 or AMP-plug.

### Characteristics:

- Flow rate up to 50 l/min at only 0,5 bar pressure loss
- Switching time: 0,5 s
- Individually configurable boom section valves up to 15 valves
- High compatibility rate of valves to existing systems

### Electrical operation options of the motor drive:

- Control directly with 2 wires (plus/minus)
- Control with 3 wires (control circuit 7mA), 12 volt/ 0 volt = open/closed
- Control with 3 wires (control circuit 7mA), 12 volt/ 0 volt = closed/open



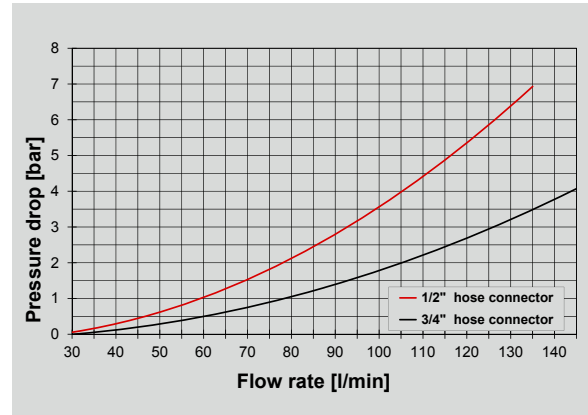


## Electrical Boom Section Valve . Electrical shut off valve

### Electrical shut off valve 36/AS24

- simple mechanical shut off valve for hoses up to  $\varnothing 19$  mm
- specifically designed for our regulator systems
- individual choice of valve alignment
- robust and reliable design
- gear motor
- compatible with the altek modular system

Maximum pressure:	12 bar
Inlet- $\varnothing$ :	36 mm, tuned to fit the modular system
Outlet- $\varnothing$ :	AS24
Material:	stainless steel: 1.4305, FPM and NBR seals, POM, PA
Voltage:	12 Volt
Control current:	7 mA
Switch time:	0,5 s - control gear

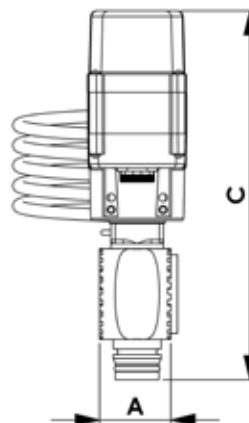
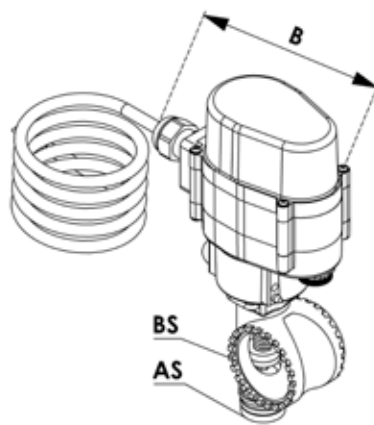


#### Recommended Fittings outlet

Article-No.	Type
34230	Female hose tail AS24/ $\varnothing 15$
34229	Female hose tail AS24/ $\varnothing 17$
34227	Female hose tail AS24/ $\varnothing 20$
More Fittings: See AS plug-in fittings, AS24	
Recommended safety pins	
18545	Pin AS24

Article-No.	Type	Remarks control gear
47942	Electrical shut off valve 36/AS24	Control gear forward-turned
47943	Electrical shut off valve 36/AS24	Control gear backward-turned
82646	Spacer ring 36/AS24 to connect electrical shut off valves 36/AS24	

BS mm	AS	A mm
36	24	35
B mm	C mm	
120	185	



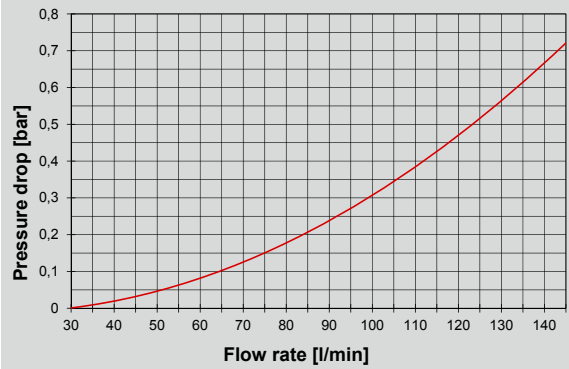
# Electrical Boom Section Valve . Electrical shut off valve



## Electrical shut off valve 36/ø25 mm

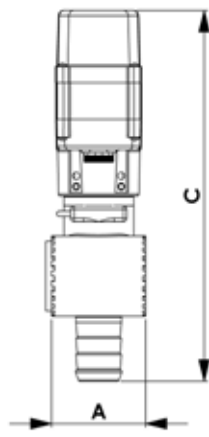
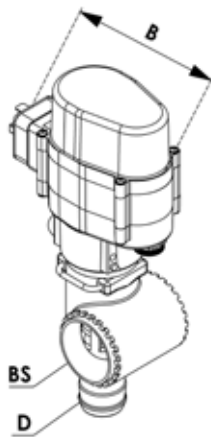
- simple mechanical shut off valve for hoses up to ø19 mm
- specifically designed for our regulator systems
- individual choice of valve alignment
- robust and reliable design
- gear motor
- compatible with the altek modular system

Maximum pressure:	12 bar
Inlet-ø:	36 mm, tuned to fit the altek modular system
Outlet-ø:	25 mm hose connection
Material:	stainless steel: 1.4305, FPM and NBR seals, POM, PA,
Voltage:	12 Volt
Control current:	7 mA
Switch time:	0,5 s - control gear



Article-No.	Type	Remarks control gear
47945	Electrical shut off valve 36/ø25 mm	Control gear forward-turned
47946	Electrical shut off valve 36/ø25 mm	Control gear backward-turned
More Fittings: See AS plug-in fittings		

BS mm	D mm	A mm
36	25	54
B mm	C mm	
120	210	



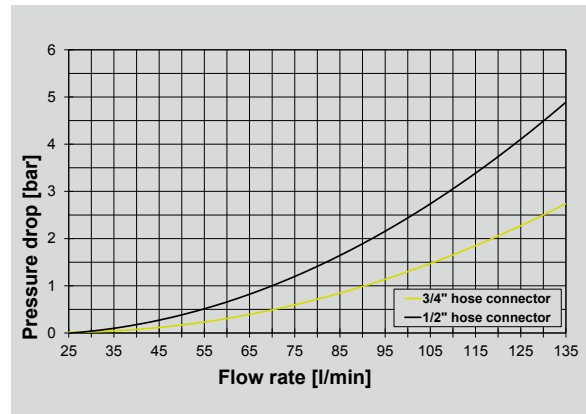


## Electrical Boom Section Valve . Modular-Fit Valve

### Modular-Fit Valve, 2-way with pressure relief

- modular pressure relief and/or circulating system
- three different electrical connections
- direct electrical control (plus/minus) or with control signal (7mA) by relay
- high flow rates with low pressure loss
- valve assemblies available to individual configuration
- for section hoses up to  $\varnothing 19$  mm
- modular building assembly

Maximum pressure: 12 bar  
 Voltage: 12 Volt  
 drive options: direct plus/minus or control signal 7mA by relay  
 Switch time: 0,5 s - control gear  
 Material: stainless steel: 1.4305, POM GF 25, FPM and NBR seal



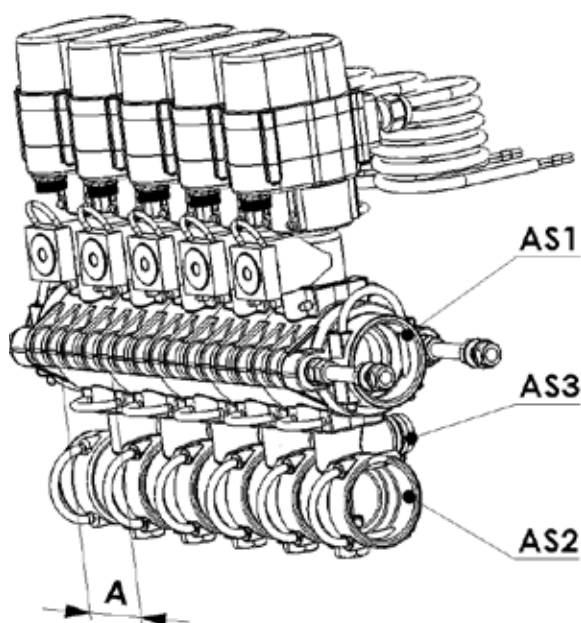
Modular-Fit valve assemblies are possible from 1 to 15 sections valves. All valve assemblies can be made to your specific requirements.

#### Options:

- Special pressure gauge connection for testing equipment
- Additional bypass-valves
- Individual alignment of the gear motor
- Valve assemblies available to individual requirements and can be delivered just in time for production line use

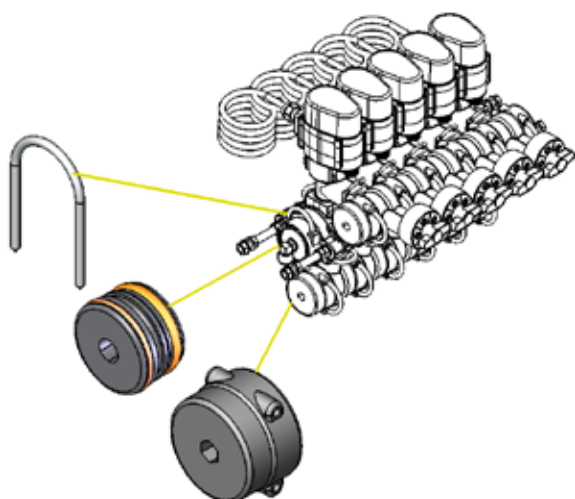
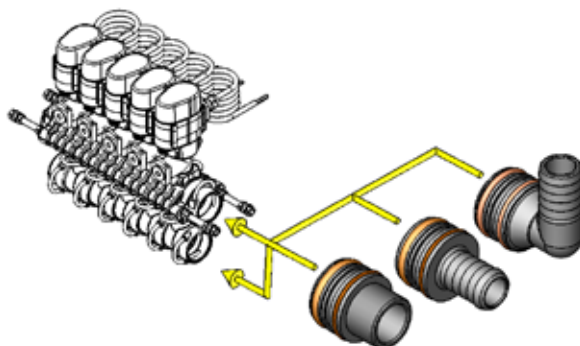
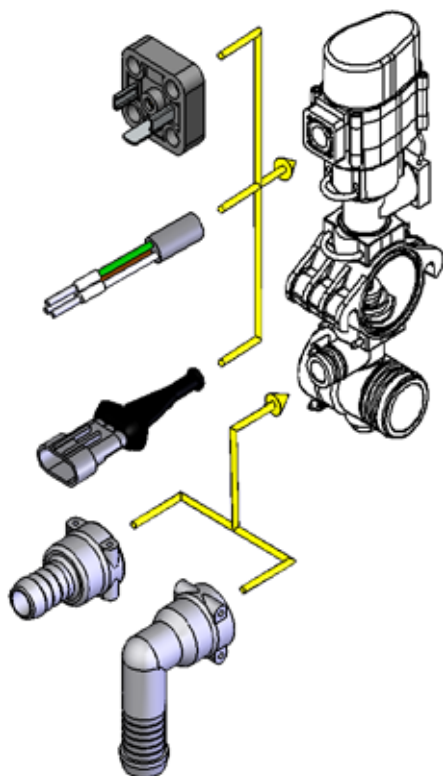
Each valve assembly contains:

- 1x Dummy plug AS40/G $\frac{3}{4}$  female cpl
- 1x Blind cap at the pressure relief canal
- 1x Safety pin AS40



AS1	AS2
40	40
AS3	A mm
24	51

# Electrical Boom Section Valve . Modular-Fit Valve



## Electrical connections

Plug-in connection DIN-EN 175 301

Cable 1m

AMP - plug

## Electrical drive

Three wire, control by relay  
control signal (-): 12Volt/0Volt=closed/open (7 mA)

Three wire, control by relay  
control signal (+): 12Volt/0Volt=open/closed (7 mA)

Two wire direct control - plus/minus

## Recommended Fittings AS24

Article-No.	Type
34230	Female hose tail AS24/ø15
34229	Female hose tail AS24/ø17
34227	Female hose tail AS24/ø20
80349	Female hose tail AS24/ø15/90°
80350	Female hose tail AS24/ø20/90°
47094	Female hose tail AS24/AS20 cpl

## Recommended Fittings AS40

80361	Plug-in hose tail AS40/G1/male cpl
80398	Plug-in hose tail AS40/G1½/male cpl
04595	Plug-in hose tail AS40/ø25 cpl
04581	Plug-in hose tail AS40/ø33 cpl
09184	Plug-in hose tail AS40/ø25/90° cpl
08874	Plug-in hose tail AS40/ø33/90° cpl

More Fittings: see AS plug-in fittings, AS40

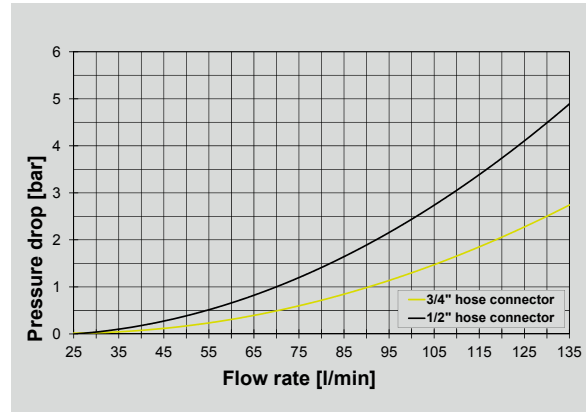


## Electrical Boom Section Valve . Modular-Fit Valve

### Modular-Fit Valve, 3-way with pressure relief and constant pressure system

- modular pressure relief and/or circulating system
- three different electrical connections
- direct electrical control (plus/minus) or with control signal (7mA) by relay
- high flow rates with low pressure loss
- valve assemblies available to individual configuration
- for section hoses up to  $\varnothing 19$  mm
- modular building assembly

Maximum pressure:	12 bar
Voltage:	12 Volt
Control options:	direct plus/minus or control signal 7mA by relay
Switch time:	0,5 s - control gear
Material:	POM GF 25, stainless steel: 1.4305, FPM and NBR seals



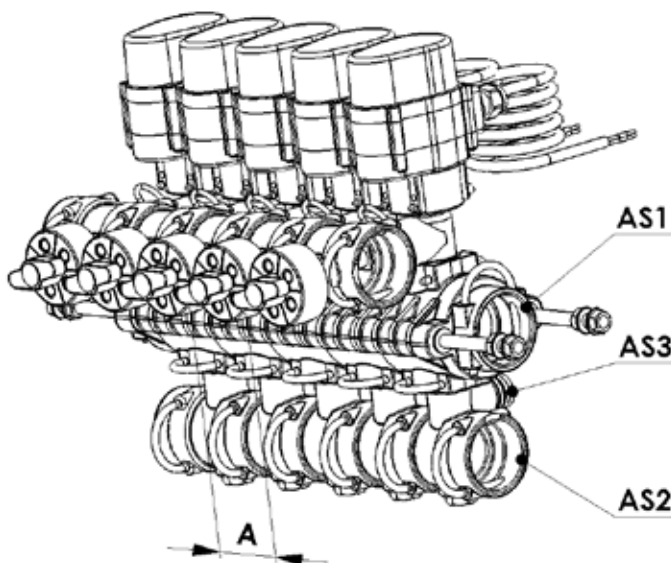
Modular-Fit valve assemblies are possible from 1 to 15 sections valves. All valve assemblies can be made to your specific requirements.

#### Options:

- Special pressure gauge connection for testing equipment
- Additional bypass-valves
- Individual alignment of the gear motor
- Valve assemblies available to individual requirements and can be delivered just in time for production line use

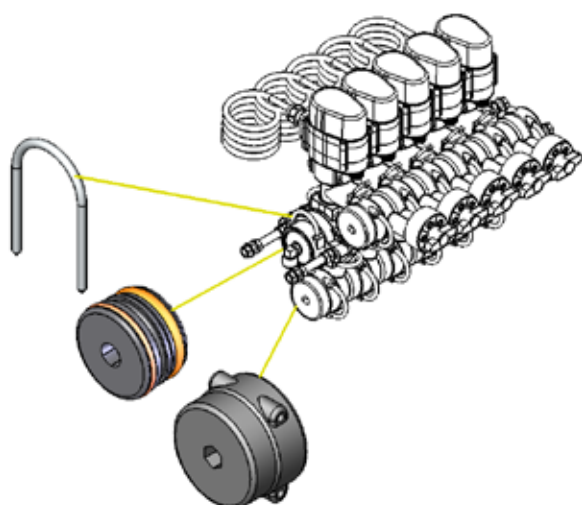
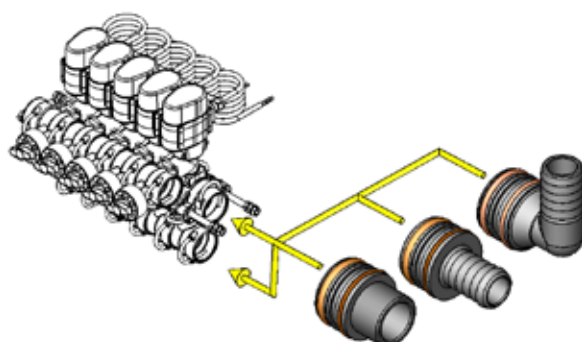
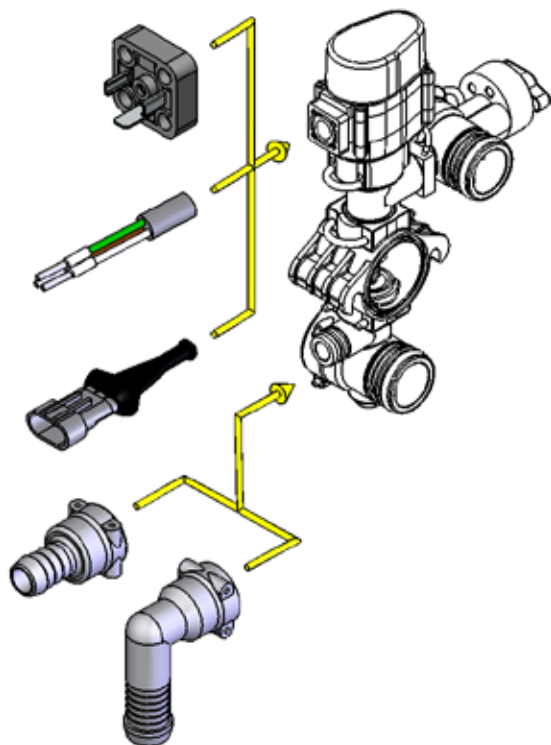
Each valve assembly contains:

- 1x Dummy plug AS40/G $\frac{1}{4}$  female cpl
- 1x Blind cap at the pressure relief canal
- 1x Safety pin AS40



AS1	AS2
40	40
AS3	A mm
24	51

## Electrical Boom Section Valve . Modular-Fit Valve



### Electrical connections

Plug-in connection DIN-EN 175 301

Cable 1m

AMP - plug

### Electrical drive

Three wire, control by relay  
control signal (-): 12Volt/0Volt=closed/open (7 mA)

Three wire, control by relay  
control signal (+): 12Volt/0Volt=open/closed (7 mA)

Two wire direct control - plus/minus

### Recommended Fittings AS24

Article-No.	Type
34230	Female hose tail AS24/ø15
34229	Female hose tail AS24/ø17
34227	Female hose tail AS24/ø20
80349	Female hose tail AS24/ø15/90°
80350	Female hose tail AS24/ø20/90°
47094	Female hose tail AS24/AS20 cpl

### Recommended Fittings AS40

80361	Plug-in hose tail AS40/G1/male cpl
80398	Plug-in hose tail AS40/G1¼/male cpl
04595	Plug-in hose tail AS40/ø25 cpl
04581	Plug-in hose tail AS40/ø33 cpl
09184	Plug-in hose tail AS40/ø25/90° cpl
08874	Plug-in hose tail AS40/ø33/90° cpl

More Fittings: see AS plug-in fittings, AS40





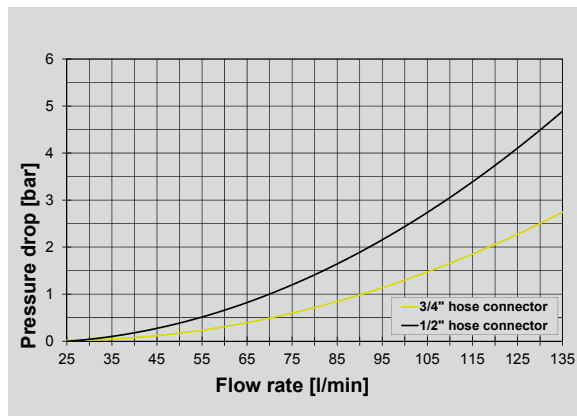
## Electrical Boom Section Valve . Modular-Fit Valve

### Modular-Fit Valve, 3-way with constant pressure system

- modular pressure relief and/or circulating system
- three different electrical connections
- direct electrical control (plus/minus) or with control signal (7mA) by relay
- high flow rates with low pressure loss
- valve assemblies available to individual configuration
- for section hoses up to  $\varnothing 19$  mm
- modular building assembly

Maximum pressure:	12 bar
Voltage:	12 Volt
Control options:	direct plus/minus or control signal 7mA by relay
Switch time:	0,5 s - control gear
Material:	POM GF 25, stainless steel:
	1.4305, FPM and NBR seals

AS1	AS2	A mm
40	24	51



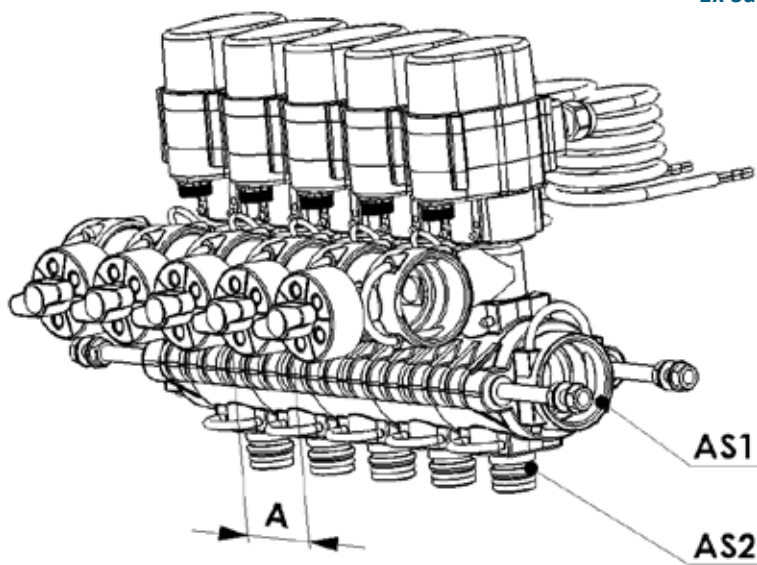
Modular-Fit valve assemblies are possible from 1 to 15 sections valves. All valve assemblies can be made to your specific requirements.

#### Options:

- Special pressure gauge connection for testing equipment
- Additional bypass-valves
- Individual alignment of the gear motor
- Valve assemblies available to individual requirements and can be delivered just in time for production line use

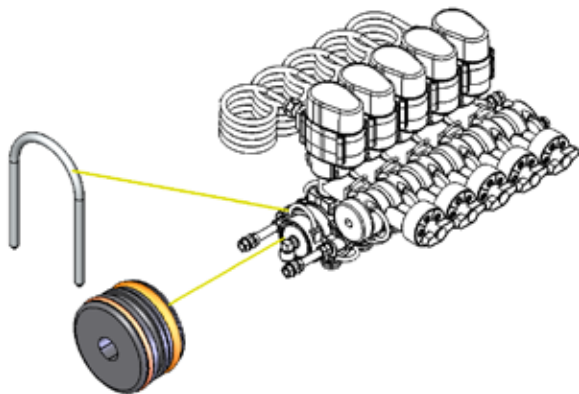
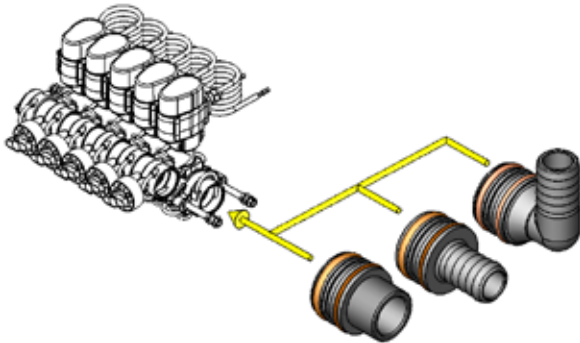
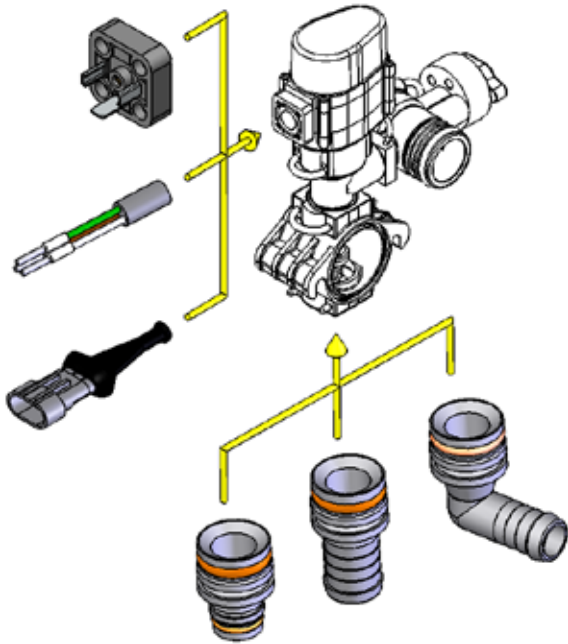
Each valve assembly contains:

- 1x Dummy plug AS40 G $\frac{1}{4}$  female cpl
- 1x Blind cap at the pressure relief canal
- 1x Safety pin AS40





# Electrical Boom Section Valve . Modular-Fit Valve



## Electrical connections

Plug-in connection DIN-EN 175 301

Cable 1m

AMP - plug; 3-polar; superseal series 1.5

## Electrical drive

Three wire, control by relay  
control signal (-): 12Volt/0Volt=closed/open (7 mA)

Three wire, control by relay  
control signal (+): 12Volt/0Volt=open/closed (7 mA)

Two wire direct control - plus/minus

## Recommended fittings AS30 with valve seat 120°

Article-No.	Type
00420	Plug-in hose tail AS30/ø20 cpl
81119	Plug-in hose tail AS30/ø25 cpl
01399	Plug-in hose tail AS30/ø33 cpl
33793	Plug-in hose tail AS30/ø33/90° cpl
80378	Plug-in hose tail AS30/AS24 cpl

## Recommended Fittings AS40

80361	Plug-in hose tail AS40/G1/male cpl
80398	Plug-in hose tail AS40/G1¼/male cpl
04595	Plug-in hose tail AS40/ø25 cpl
04581	Plug-in hose tail AS40/ø33 cpl
09184	Plug-in hose tail AS40/ø25/90° cpl
08874	Plug-in hose tail AS40/ø33/90° cpl

More Fittings: see AS plug-in fittings, AS40





## Quick-fit valve

By utilising altek's plug-in system, the assembling time of the valves can be vastly reduced. Due to its compact and flexible construction, the valve can be perfectly used as section valve mounted close to the nozzle on the spray boom. Additionally its compactness allows

positioning and attaching the valve to the spray boom in a flexible manner. The electrical connection can be carried out through connection via cable, by cube plug DIN 175301 or AMP-plug.

### Characteristics:

- Flow rate up to 75 l/min at only 0,5 bar pressure loss
- Switching time: 0,5 s.
- Individually configurable boom section valves up to 15 valves
- High compatibility rate of valves to existing systems

### Electrical operation options of the motor drive:

- Control directly with 2 wires (plus/minus)
- Control with 3 wires (control circuit 7mA), 12 volt/ 0 volt = open/closed
- Control with 3 wires (control circuit 7mA), 12 volt/ 0 volt = closed/open

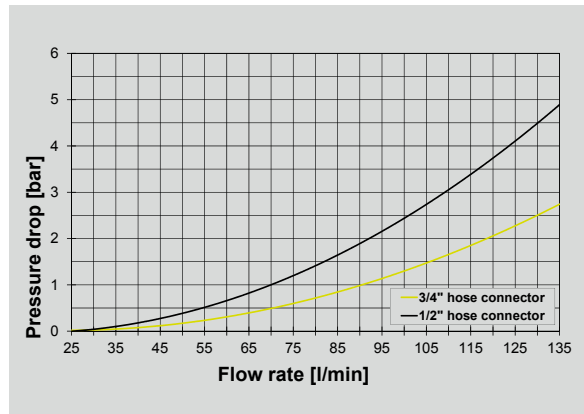


## Electrical Boom Section Valve . Quick-Fit Valve

### Quick-Fit Valve, 2-way

- fastest possible sprayer assembly with the altek plug-in system
- built extremely slim to be fully integrated into the spray boom
- three different electrical connections
- direct electrical control (plus/minus) or with control signal (7mA) by relay
- large flow rates at a low pressure drop
- for boom section hoses up to  $\varnothing 32$  mm
- modular building system

Maximum pressure: 12 bar  
 Voltage: 12 Volt  
 Control options: direct plus/minus or control signal 7mA by relay  
 Switch time: 0,5 s - control gear  
 Material: POM GF 25, stainless steel: 1.4305, FPM and NBR seals



#### Recommended Fittings AS24

Article-No.	Type
34230	Female hose tail AS24/ $\varnothing 15$
34229	Female hose tail AS24/ $\varnothing 17$
34227	Female hose tail AS24/ $\varnothing 20$
80349	Female hose tail AS24/ $\varnothing 15/90^\circ$
80350	Female hose tail AS24/ $\varnothing 20/90^\circ$
47094	Female hose tail AS24/AS20 cpl

#### Recommended Fittings AS40

04595	Plug-in hose tail AS40/ $\varnothing 25$ cpl
04581	Plug-in hose tail AS40/ $\varnothing 33$ cpl
09184	Plug-in hose tail AS40/ $\varnothing 25/90^\circ$ cpl
80357	Female hose tail AS40/ $\varnothing 25$
34232	Female hose tail AS40/ $\varnothing 33$
47993	Blind cap AS40

#### Recommended Fittings AS30 with valve seat $120^\circ$

00420	Plug-in hose tail AS30/ $\varnothing 20$ cpl
81119	Plug-in hose tail AS30/ $\varnothing 25$ cpl
01399	Plug-in hose tail AS30/ $\varnothing 33$ cpl
33793	Plug-in hose tail AS30/ $\varnothing 33/90^\circ$ cpl
80378	Plug-in hose tail AS30/AS24 cpl

More Fittings: see AS plug-in fittings, AS30

#### Electrical drive

Three wire, control by relay  
 control signal (-): 12Volt/0Volt=closed/open

Three wire, control by relay  
 control signal (+): 12Volt/0Volt=open/closed

Two wire direct control - plus/minus

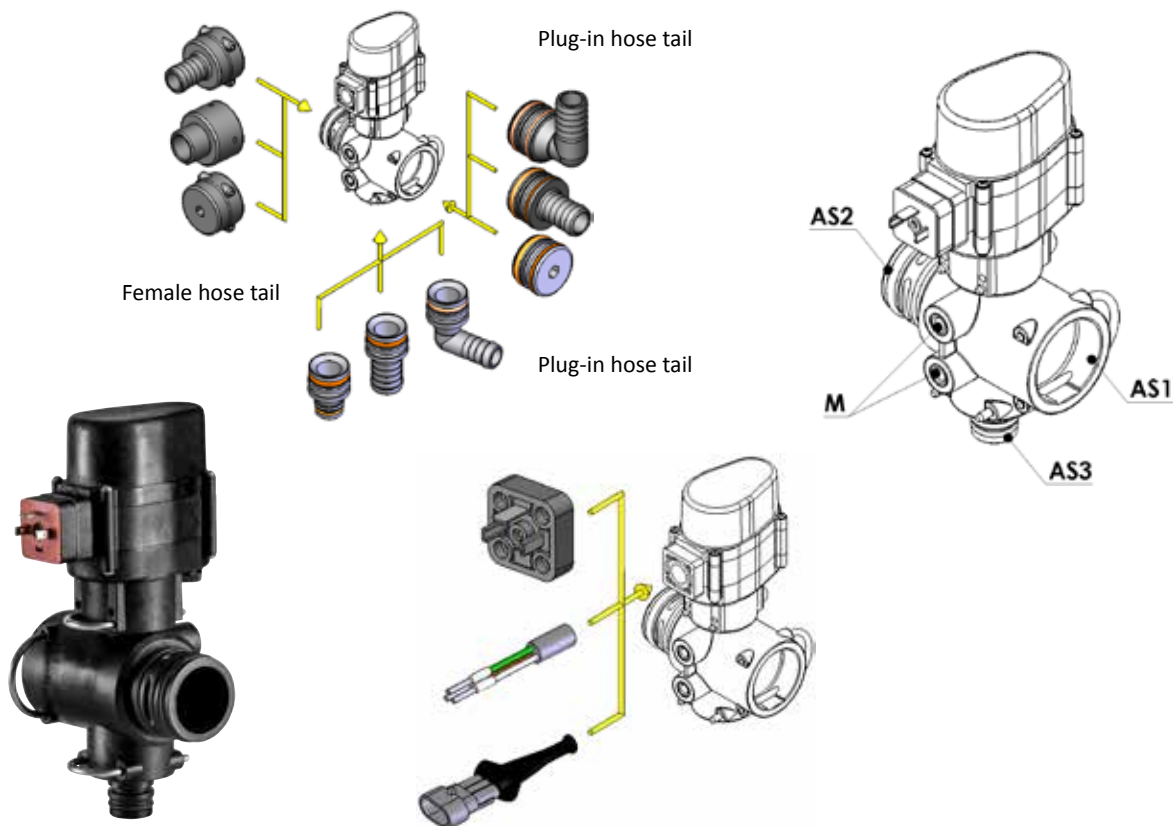
#### Electrical connections

Plug-in connection DIN-EN 175 301

Cable 1m

AMP - plug

# Electrical Boom Section Valve . Quick-Fit Valve



Valve with cable 1m						
Article-No.	Type	AS1	AS2	AS3	M	D
80553	Quick-Fit Valve, 2-WAY, AS24, 3-W, L=1m, (-)	40	40	24	M8	-
80556	Quick-Fit Valve; 2-WAY, AS24, 3-W, L=1m, (+)	40	40	24	M8	-
80558	Quick-Fit Valve, 2-WAY, AS24, 2-W, L=1m	40	40	24	M8	-
81534	Quick-Fit Valve, 2-WAY, AS30/ø25, L=1m, (+)	40	40	-	M8	ø25
Valve with plug connection DIN 175301						
80554	Quick-Fit Valve, 2-WAY, AS24, 3-W, DIN 175301, (-)	40	40	24	M8	-
80557	Quick-Fit Valve, 2-WAY, AS24, 3-W, DIN 175301, (+)	40	40	24	M8	-
81172	Quick-Fit Valve, 2-WAY, AS24, 2-W, DIN 175301	40	40	24	M8	-
81535	Quick-Fit Valve, 2-WAY, AS30/ø25, DIN 175301, (+)	40	40	-	M8	ø25
Valves with AMP-plug						
81533	Quick-Fit Valve, 2-WAY, AS24, 3-W, AMP, (-)	40	40	24	M8	-
80503	Quick-Fit Valve, 2-WAY, AS24, 3-W, AMP, (+)	40	40	24	M8	-
80559	Quick-Fit Valve, 2-WAY, AS24, 2-W, AMP	40	40	24	M8	-
81536	Quick-Fit Valve, 2-WAY, AS30/ø25, AMP, (+)	40	40	-	M8	ø25

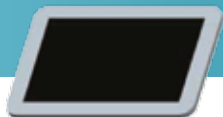




## Controller Individual Nozzle Control

It is altek's objective to provide the complete solution in regards to components utilised in the production of field sprayers. This includes providing our customers with electronic controllers. To fulfill this aim, altek set up a strategic alliance with other companies which have the same attitude towards quality and willingness to perform at highest level. With the Smart Nozzle System altek provides absolute precision, highest environmental protection and maximized operating comfort concerning electronic controllers. The possibility of controlling all nozzles individually along the sprayline is unique.





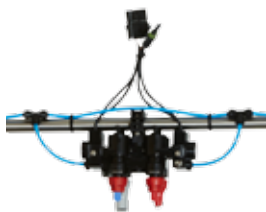
### SMART NOZZLE

- reduces spray overlap to a minimum
- saves chemical
- radio control nozzle check
- guidance
- capable to retrofit to most makes of sprayers

Smart Nozzle GPS control of single nozzles providing excellent application accuracy and efficiency.



DIRECT CONTROL



MULTI-SPRAY  
DIRECT CONTROL

Using GPS the Smart Nozzle System allows the control of each individual nozzle on the spray line. Each nozzle is a section. This individual nozzle control opens up new dimensions and precision in crop protection.

#### SMART NOZZLE:

Smart Nozzle uses altek valves fitted to each nozzle, either Direct Control / Multi-Spray twin or quad / Elektra depending on the customers requirements.

#### APPLICATION SAVINGS:

Reduction in overlaps results in chemical application savings in excess of 10%. In addition by filling the sprayer with the volume of chemical actually required less chemical is wasted in washing out operations.

Increased accuracy during liquid fertilizer application reduces the possibility of crop damage from over / under application.

#### WHAT USERS SAY:

"We no longer send excess chemical back to the manufacturer as we only buy the quantities we need. We were expecting the reductions in overlaps to bring slight savings in chemical applications of around 4-5%, but in reality, the savings we have seen are a minimum of 10%."

Ian Wilson, H. A. DAY, Greet Farm Gloucestershire,  
in: Arable Farming, March 2014 (3 seasons)

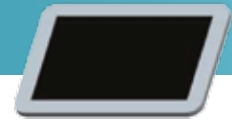
"My original objective in purchasing the Smart Nozzle System was to reduce the unacceptable spray overlap caused as my sprayer, an Alanco Sprayranger, had only 3 sections on a 18 m boom. Now into my 4th season we have seen our chemical use reduced by 13-14%.

The initial cost of the system was recouped in less than 3 years on a 500 acre farm. An unexpected benefit of the system was the sheer ease of use in field with the Smart Nozzle System taking care of all the nozzle switching. Prior to the start of this season we have upgraded our system to the latest Android Tablet, this is very user friendly and the new guidance added to the system is the business! The system can be transferred fairly easily should sprayer be changed."

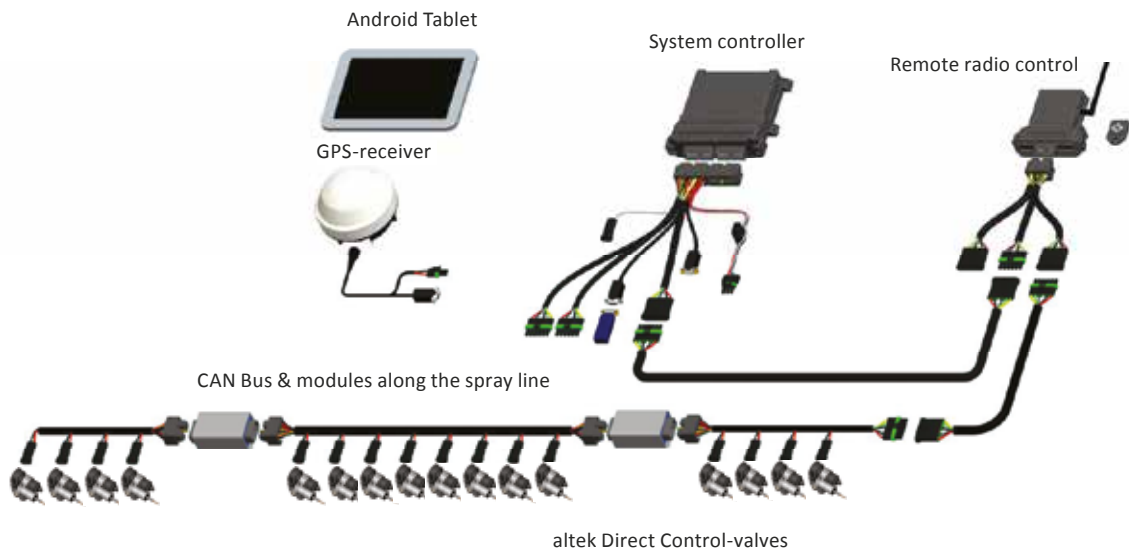
Giles Swift, Wealden, Kent, March 2014 (4 seasons)

"This is our second smart nozzle system, the original system we had fitted to a nine year old trailed Knight laser sprayer. We have a lot of irregular shaped fields so it is very difficult to avoid "double dosing" which was easy to spot in particular after liquid nitrogen applications by the Vs that we had in the field. The savings on chemical, time, operator fatigue and reduced crop damage, made it an easy decision when we purchased a new Hardi Navigator 2 years ago to have the latest Android / Bluetooth smart nozzle system fitted."

Richard Day, Wrawby, Brigg, North Lincolnshire,  
March 2014 (5 Saisons)



### THE ALTEK / HARRISON GPS - OPERATED SMART NOZZLE SYSTEM NOW WITH BLUETOOTH CONNECTIVITY AND GUIDANCE



APPLICATION ACCURACY AND COST BENEFITS WITH INDIVIDUAL NOZZLE CONTROL



## Controller · Electronic Upgrade Kit

### Electronic Upgrade Kit for sprayers

- for all makes of sprayers
- 5–9 sections
- makes your farming work easier
- efficient, economical and environmentally friendly

#### Electric Control upgrade kits for all brands of field sprayers

Article-No.	Type
83079	Electronic Upgrade kit for sprayers, 5 sections
80612	Electronic, SPRAYDOS-Computer, 5 sections
80613	Electronic, basic equipment (wheel sensor, battery cable, installation material)
83609	Electronic, distributor for SPRAYDOS, 39 pins
83097	Flowmeter cpl Rapid Check 1" ceramic 50 bar, 25 mm fittings
83089	Sensor Rapid Check 1" cpl with AMP plug Super Seal
81746	Electric proportional regulator 400
83477	Pressure filter with back rinsing cock
81493	Pressure control valve QFPR, 10 bar
81034	Modular-Fit Valve Assembly 5V 3-Way AS24 2-W CP PR DIN175301
80790	Quick-Fit Valve manually 2-Way AS24
09184	Plug-in hose tail AS40/ø25/90° cpl
34230	Female hose tail AS24/ø15
18545	Safety pin AS24
81602	Plug-in hose tail AS40/AS40 cpl
80604	Mounting brackets for section valve Modular-Fit block 90°

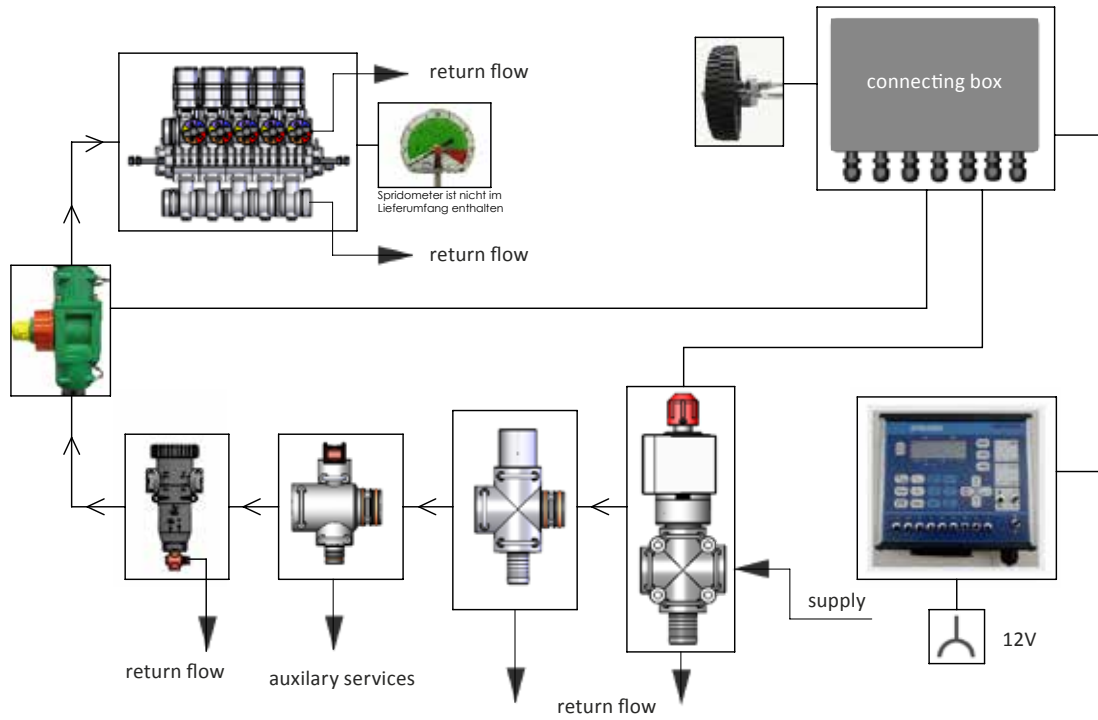
#### On request

Article-No.	Type
83430	Electronic Upgrade kit for sprayers, 7 sections
83431	Electronic Upgrade kit for sprayers, 9 sections

# Controller · Electronic Upgrade Kit



altek complete system, easy to fit





## Controller · altek conversion kit MFV for RAU/ Kverneland-Telemat-remote control

### altek conversion kit Modular-Fit-Valves (MFV)

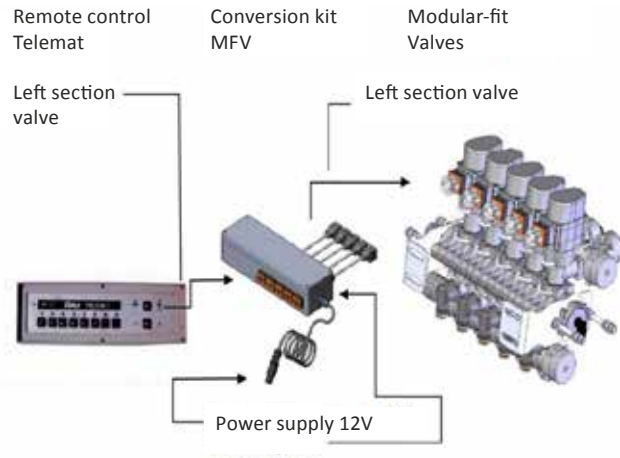
for an easy conversion of sprayers with integrated RAU/Kverneland-Telemat remote control (Telemat EV and EVD) to altek-MFV operation

- simple replacement of solenoid section valves with up to date Modular Fit Valves
- modern technology and best operational safety
- Simple and fast maintenance
- secure spare parts supply for the future
- existing Telemat can be used also in the future

Contains:

altek conversion kit for Telemat with MFV and the corresponding section valve block:

Article-No.	Type
83802	Conversion kit MFV for Telemat for 5 TB (5 sections)
83408	Conversion kit MFV for Telemat for 6-9 TB
83470	Modular-Fit Valve Assembly 5 TB 5V 3-Way AS24 3-W CP PR DIN175301 (+) - Upgrade kit
83471	Modular-Fit Valve Assembly 7 TB 7V 3-Way AS24 3-W CP PR DIN175301 (+) - Upgrade kit
83472	Modular-Fit Valve Assembly 8 TB 8V 3-Way AS24 3-W CP PR DIN175301 (+) - Upgrade kit
83473	Modular-Fit Valve Assembly 9 TB 9V 3-Way AS24 3-W CP PR DIN175301 (+) - Upgrade kit
83446	Cable extension 6,5 m with 3-pole plugs to ISO 12369



Please consider the following:

- Depending on the type of sprayer, more hose tails and connectors will be needed.
- Additionally a 12 Volts power outlet can be required.
- When required more return hoses have to be reverted to the barrel.
- Metal supports have to be modified and adjusted.

Please contact us, if you are interested – we would like to support you!



## altek conversion kit Modular-Fit-Valves (MFV)

for an easy conversion of sprayers with altek solenoid valves (older Amazone UF-, US-, UG-sprayers) to altek Modular-Fit Valves

- simple replacement of solenoid section valves with up to date Modular Fit Valves with actuator motors
- modern technology and best operational safety
- Simple and fast maintenance
- secure spare parts supply for the future
- existing electronics assembly/Telemat can be used also in the future



Contains:

altek conversion kit for Telemat with MFV and the corresponding section valve block

Article-No.	Type
83623	Modular-Fit Valve Assembly for conversion kit, AMAZONE 5V 3-Way AS24 3-W CP PR DIN175301 (+)
83624	Modular-Fit Valve Assembly for conversion kit, AMAZONE 7V 3-Way AS24 3-W CP PR DIN175301 (+)
83802	Conversion kit MFV for 5 TB (sections)
83408	Controller telemat MFV for 6-9 TB



Please consider the following:

- Depending on the type of sprayer, more hose tails and connectors will be needed.
- Additionally a 12 Volts power outlet can be required.
- When required more return hoses have to be reverted to the barrel.
- Metal supports have to be modified and adjusted.

Please contact us, if you are interested – we would like to support you!



## Controller · Control unit for electrical ball valves

### Control unit for electrical ball valves

- Simple to retrofit all makes of Sprayers with electrical ball valves
- simple to operate from alongside the Sprayer or from the cabine
- ball valves can be fitted in location to suit the sprayer system to reduce hose lengths

Article-No.	Description
83351	Sprayer Mounted Master Control including .... Power supply loom ( 2 core with fuse) Valve looms – 10m cable to both valves Remote panel connection Worklight control and connection (LED LAMP) Pressure washer / Aux Supply control and connection
84298	In-Cab remote Control including connection loom from cab to Master Controller







## Ball Valves general

Ball valves applied in sprayers are available for suction applications as well as for pressure application. They are available in different sizes and material strength. altek offers for both suction and pressure ball valves in different sizes 1¼", 2" and 3". They are available in both manual and electric operation.

The ball inside is manufactured from a mixture of  
\* POM & Teflon which produces easy slide properties. The sealing rings inside the housing are adjustable. This ensures long term functionality and safe operation of the sprayer.

\* 3 way central valve has Stainless Steel ball



## Manual and electrical Ball Valves

altek are continually updating the ball valves to deal with continually rising flow rates of modern sprayers. Accordingly, with the use of new material combinations developed in-house we vastly increased the wear-resistance of the internal ball, which is able to withstand even highly abrasive substances. In addition it is possible to adjust for wear by the use of adjustable seals to improve resistancy.

- **Extremely compact design**
- **High wear-resistance**
- **Manual operation with low effort**
- **Special fittings on request**
- **Adaptable to altek plug-in system for 5-way ball valve 1 1/4" and 2"**
- **With the 5-way 2" ball valve, hose diameters up to 60 mm possible**



## Ball valves · 5-way 1½"

### 5-way ball valve 1½"

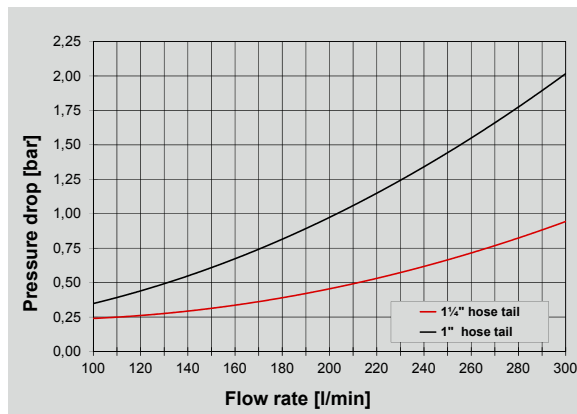
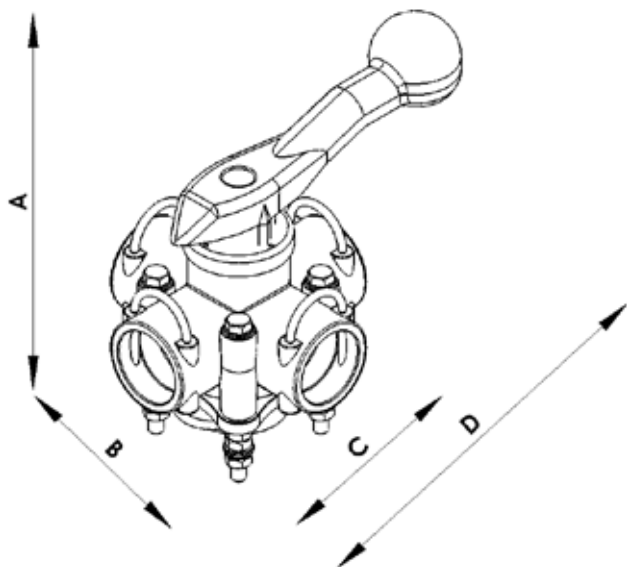
- individual adjustable seal
- high wear resistance
- retrofitable with electric drive
- Optional: Special connectors are available

Operating time pressure: max. 15 bar  
 Flow rate: max. 300 l/min  
 Inlet-ø: 1x AS40  
 Outlet-ø: 4x AS40  
 Ball valve: POM+PTFE  
 Material: POM GF 25, PA, FPM and NBR seals

#### Options:

- Adapter for special connectors
- configurations of several ball valves are available upon request

A	B	C	D
180	140	140	215
Specified in mm			



Article-No.	Type
61128	Kugelventil 5-Wege 1½"
Recommended fittings	
80352	Plug-in hose tail AS40/ø20/90° cpl
09184	Plug-in hose tail AS40/ø25/90° cpl
08874	Plug-in hose tail AS40/ø33/90° cpl
08275	Plug-in hose tail AS40/ø39/90° cpl
80353	Plug-in hose tail AS40/ø20 cpl
04595	Plug-in hose tail AS40/ø25 cpl
04581	Plug-in hose tail AS40/ø33 cpl
06247	Plug-in hose tail AS40/ø39 cpl
80333	Blindstopfen AS40 cpl
82614	Adapter Plug-in hose tail AS40/ Banjo 2" cpl
More Fittings: see section Fittings AS40	





## Electrical 5-way ball valve 1¼"

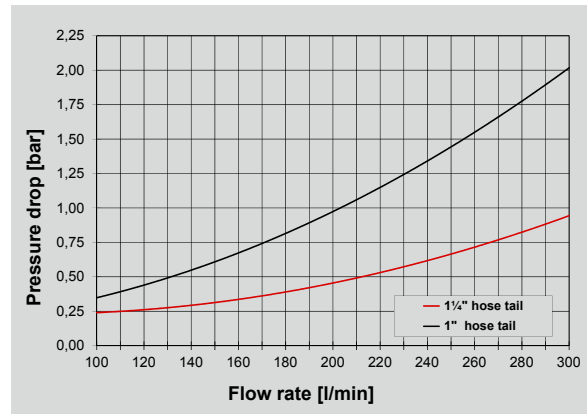
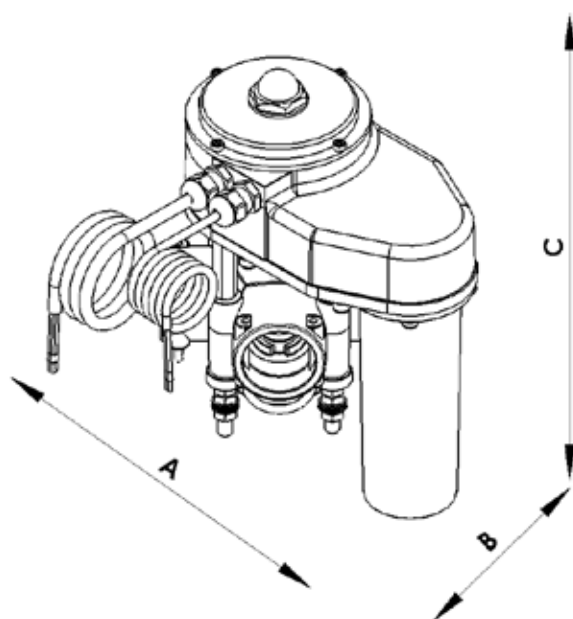
- individual adjustable seals
- high wear resistance
- integrated emergency operation
- optional: special connectors are available

Operating time pressure:	max. 15 bar
Flow rate:	max. 300 l/min
Inlet-ø:	1x AS40
Outlet-ø:	4x AS40
Ball valve:	POM+PTFE
Nominal voltage:	12 Volt
Switch time:	360°/3,0 s
Material:	POM GF 25, PA, FPM and NBR seals

### Options:

- Adapter for special connectors
- configurations of several ball valves are available upon request

A	B	C
235	190	190
Specified in mm		



Article-No.	Type
47947	Electrical 5-way ball valve ¼"
Recommended fittings	
80352	Plug-in hose tail AS40/ø20/90° cpl
09184	Plug-in hose tail AS40/ø25/90° cpl
08874	Plug-in hose tail AS40/ø33/90° cpl
08275	Plug-in hose tail AS40/ø39/90° cpl
80353	Plug-in hose tail AS40/ø20 cpl
04595	Plug-in hose tail AS40/ø25 cpl
04581	Plug-in hose tail AS40/ø33 cpl
06247	Plug-in hose tail AS40/ø39 cpl
80333	Blindstopfen AS40 cpl
82614	Adapter Plug-in hose tail AS40/ Banjo 2" cpl
More Fittings: see section Fittings AS40	





## Ball valves · 5-way 2"

### 5-way ball valve 2"

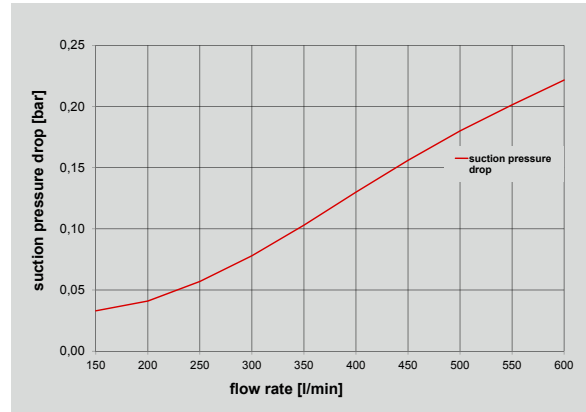
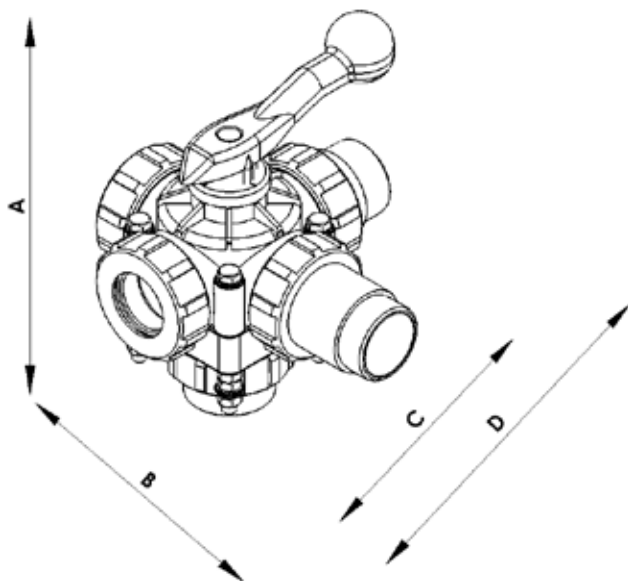
- individual adjustable seal
- high wear resistance
- retrofitable with electric drive
- optional: special connectors are available
- fittings for  $\varnothing 60$  mm hoses

Operating time pressure: max. 3 bar  
 Flow rate: max. 600 l/min  
 Inlet- $\varnothing$ : 2"  
 Outlet- $\varnothing$ : 2"  
 Ball valve: POM+PTFE  
 Material: POM GF 25, PA, FPM and NBR seals

#### Options:

- Adapter for special connectors
- configurations of several ball valves are available upon request

A	B	C	D
235	190	190	260
Specified in mm			



Article-No.	Type
82757	5-way ball valve 2"
Recommended fittings	
47713	Adapter for connector KH2/D1=47 cpl
47883	Adapter for connector KH2/D1=63 cpl
47737	Fitting G2/female cpl
47735	Fitting G2/male/L=47,5 cpl
47736	Fitting G2/male/L=75 cpl
47587	Nut G2 $\frac{3}{4}$ for Fitting G2 Di=52,5 mm
47733	Nut G2 $\frac{3}{4}$ for Fitting G2 Di=68 mm
More Fittings: see section AS Fittings	





## Electrical 5-way ball valve 2"

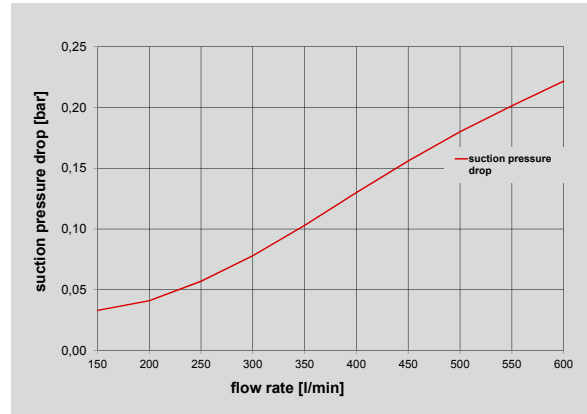
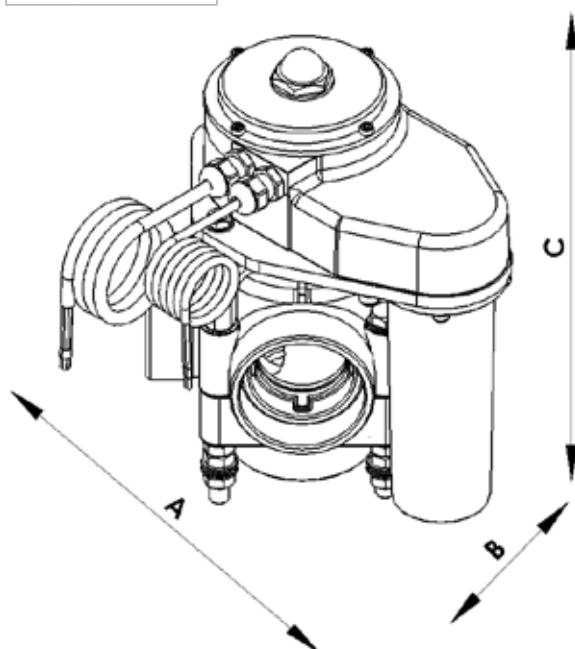
- individual adjustable seals
- high wear resistance
- integrated emergency operation
- optional: special connectors are available
- fittings for Ø60 mm hoses
- optional: electric control with potentiometer

Operating time pressure:	max. 3 bar
Flow rate:	max. 600 l/min
Inlet-Ø:	2"
Outlet-Ø:	2"
Ball valve:	POM+PTFE
Nominal voltage:	12 Volt
Schaltzeit	360°/3,0 s
Material:	POM GF 25, PA, FPM and NBR seals

### Options:

- Adapter for special connectors
- configurations of several ball valves are available upon request

A	B	C
220	155	235
Specified in mm		



Article-No.	Type
47948	Electrical 5-way ball valve 2"
Recommended fittings	
47713	Adapter for connector KH2/D1=47 cpl
47883	Adapter for connector KH2/D1=63 cpl
47737	Fitting G2/female cpl
47735	Fitting G2/male/L=47,5 cpl
47736	Fitting G2/male/L=75 cpl
47587	Nut G2½ for Fitting G2 Di=52,5 mm
47733	Nut G2½ for Fitting G2 Di=68 mm
More Fittings: see section AS Fittings	





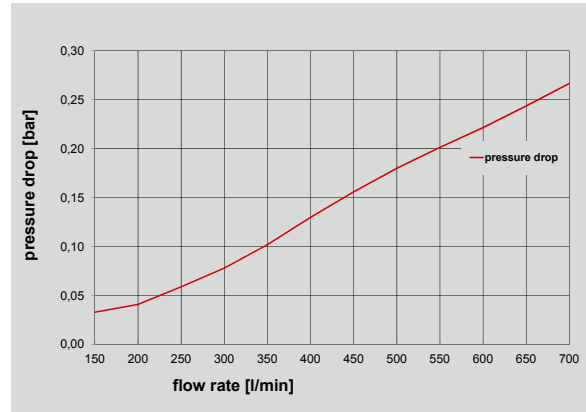
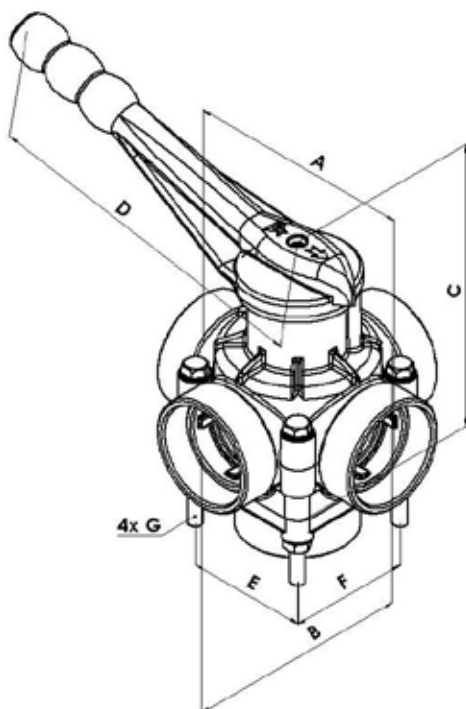
## Ball valves · Manually 5-way 2", 15 bar

### Manually 5-way ball valve 2", 15 bar

- individual adjustable seals
- high wear resistance
- ball bearing shaft
- retrofitable with electric drive
- optional: special connectors are available
- fittings for  $\varnothing 60$  mm hoses
- Body made from liquid fertilizer proof anodised aluminium

Operating time pressure: max. 15 bar  
 Flow rate: max. 700 l/min  
 Inlet- $\varnothing$ : 2"  
 Outlet- $\varnothing$ : 2"  
 Ball valve: POM+PTFE  
 Material: POM GF 25, PA, FPM and NBR seals

A	B	C	D	E	F	G
175	175	270	220	93	93	M10
Specified in mm						



Article-No.	Type
83091	5-way ball valve 2", 15 bar
Recommended fittings	
47713	Adapter for connector KH2/D1=47 cpl
47883	Adapter for connector KH2/D1=63 cpl
47737	Fitting G2/female cpl
47735	Fitting G2/male/L=47,5 cpl
47736	Fitting G2/male/L=75 cpl
82648	Nut G2 3/4 for 2" pressure valve
More Fittings: see section AS Fittings	







## Electrical 5-way ball valve 2", 15 bar Ball bearing shaft

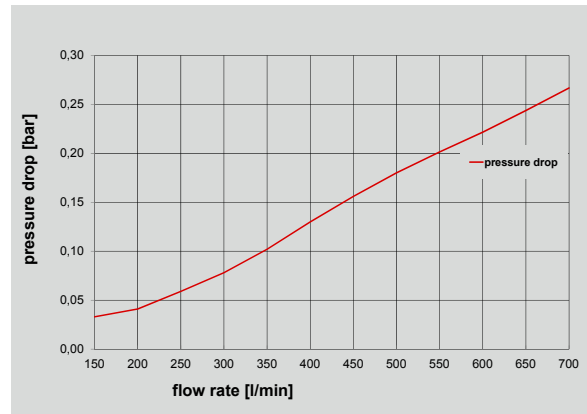
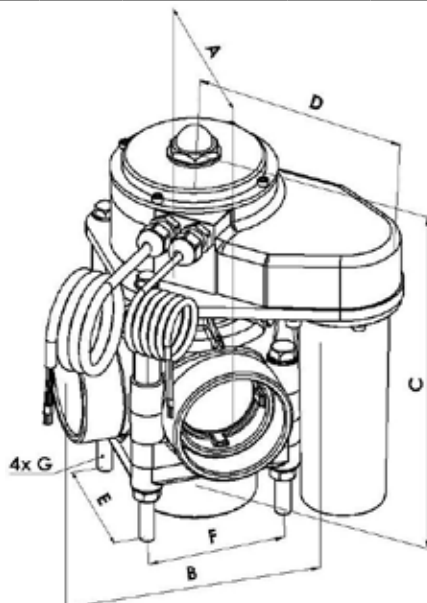
- individual adjustable seals
- high wear resistance
- ball bearing shaft
- integrated emergency operation
- optional: special connectors are available
- fittings for ø60 mm hoses
- optional: electric control with potentiometer
- Body made from liquid fertilizer proof anodised aluminium

Operating time pressure:	max. 15 bar
Flow rate:	max. 700 l/min
Inlet-ø:	2"
Outlet-ø:	2"
Ball valve:	POM+PTFE
Nominal voltage:	12 Volt
Switch time:	360°/3,0 s
Material:	POM GF 25, PA, Aluminium, FPM and NBR seals

### Options:

- Adapter for special connectors  
(e.g. with threads smaller than 2")

A	B	C	D	E	F	G
175	175	270	220	93	93	M10
Specified in mm						



Article-No.	Type
82705	Electrical 5-way ball valve 2", 15 bar
Recommended fittings	
47713	Adapter for connector KH2/D1=47 cpl
47883	Adapter for connector KH2/D1=63 cpl
47737	Fitting G2/female cpl
47735	Fitting G2/male/L=47,5 cpl
47736	Fitting G2/male/L=75 cpl
82648	Nut G2 ¾ for 2" pressure valve
More Fittings: see section AS Fittings	





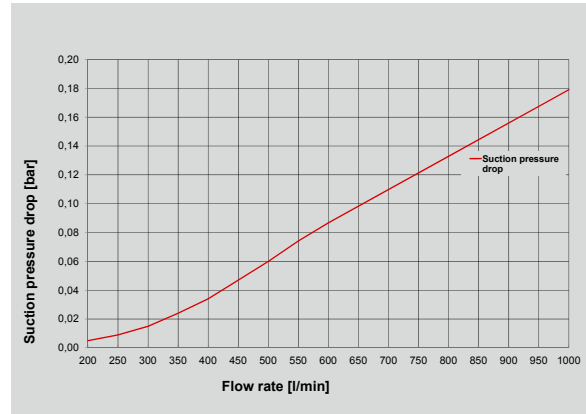
## Ball valves · 5-way 3"

### 5-way ball valve 3"

- high wear resistance
- retrofitable with electric drive
- ball bearing shaft
- optional: special connectors are available
- standard fittings with BSP-thread
- Body made from liquid fertilizer proof anodised aluminium

Operating time pressure: max. 3 bar  
 Flow rate: max. 1.000 l/min  
 Inlet-ø: 3"  
 Outlet-ø: 3"  
 Ball valve: POM+PTFE  
 Material: POM GF 25, PA, Aluminium, FPM and NBR seals

A	B	C	D	E	F	AS1-AS5	G
263	263	270	250	93	158	G3 male	M10
Specified in mm							

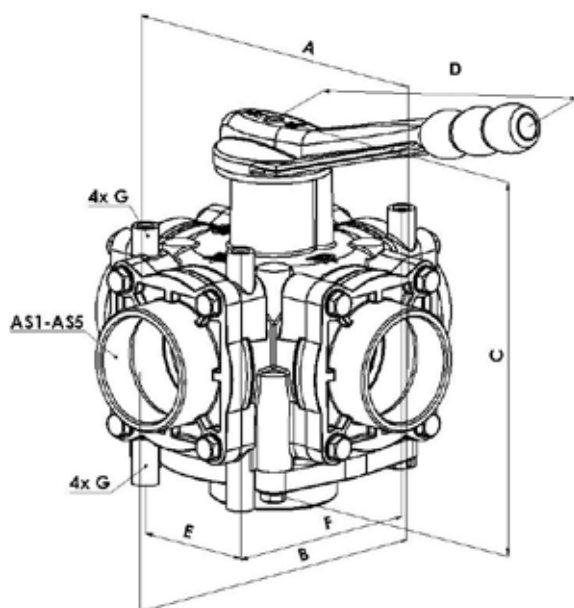


Article-No.	Type
82014	Manually 5-way ball valve 3"
82797	Manually 5-way ball valve 3" with POM ball and Banjo flange
82011	Flange BV 3" cpl G3/male
82542	Flange BV 3" cpl G2/male

#### Recommended fittingsEinlass (AS1-AS5)

All fittings of the series of standard BSP fittings can be used

More Fittings: see section AS Fittings





## Electrical 5-way ball valve 3"

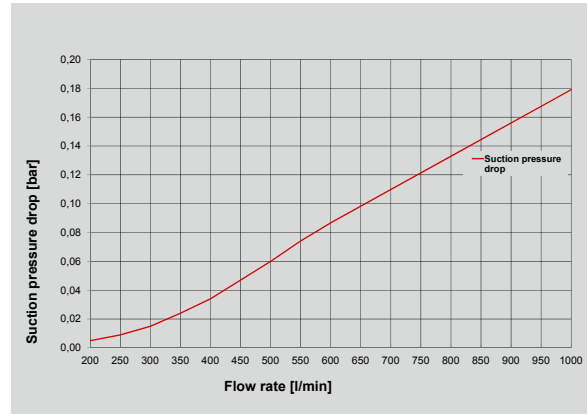
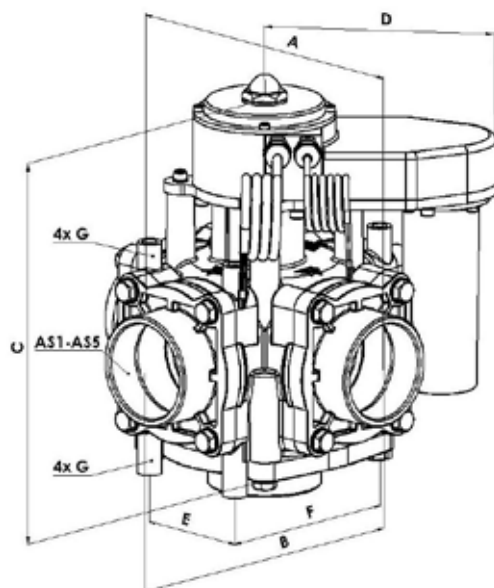
- high wear resistance
- ball bearing shaft
- integrated emergency operation
- optional: special connectors are available
- standard fittings with BSP-thread
- optional: electric control with potentiometer
- Body made from liquid fertilizer proof anodised aluminium

Operating time pressure:	max. 3 bar
Flow rate:	max. 1.000 l/min
Inlet-ø:	3"
Outlet-ø:	3"
Ball valve:	POM+PTFE
Nominal voltage:	12 Volt
Switch time:	360°/3,0 s
Material:	POM GF 25, PA, Aluminium, FPM and NBR seals

### Options:

- Adapter for special connectors  
(e.g. with threads smaller than 2")

A	B	C	D	E	F	AS1-AS5	G
263	263	310	140	93	158	G3 male	M10
Specified in mm							



Article-No.	Type
82015	Electrical 5-way ball valve 3"
82798	Electrical 5-way ball valve 3" with POM ball and Banjo flange
82011	Flange BV 3" cpl G3/male
82542	Flange BV 3" cpl G2/male

### Recommended fittingsEinlass (AS1-AS5)

All fittings of the series of standard  
BSP fittings can be used

More Fittings: see section AS Fittings



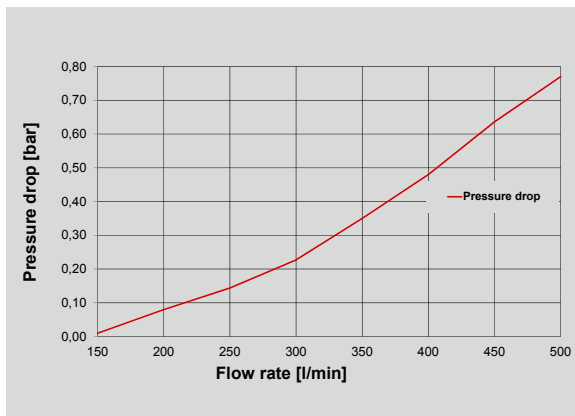
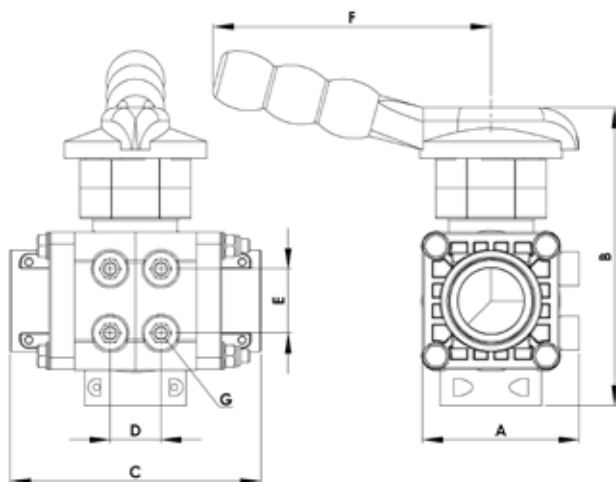
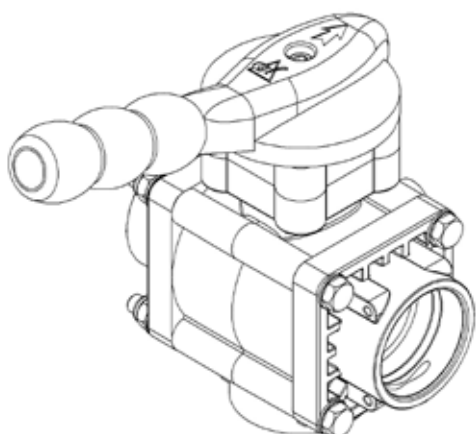


## Ball valves · 3-way ø39 mm

### 3-way ball valve ø39 mm bottom feed

- innovative sealing concept with modified Polyamid for increased service life
- manual operation with low effort
- compact with large 39 mm nominal width

Operating time pressure: max. 15 bar  
 Flow rate: max. 500 l/min  
 Outlet-ø: AS50  
 Ball valve: Stahl: 1.4305  
 Seals: modifiziertes Polyamid  
 Material: POM GF 25



Article-No.	Type
83174	Ball valve 3-way, manually ø39mm
Recommended fittings	
17157	Plug-in hose tail AS50/ø46 cpl
17330	Plug-in hose tail AS50/ø46/90° cpl
22040	Plug-in hose tail AS50/ø39 cpl
24891	Plug-in hose tail AS50/ø39/90° cpl
80610	Plug-in hose tail AS50/G2/male cpl
82945	Plug-in hose tail AS50/AS40 cpl
More Fittings: see section Fittings AS50	

A	B	C	D	E	F	G
93	176	148	30	38	164	4 x M8
Specified in mm						

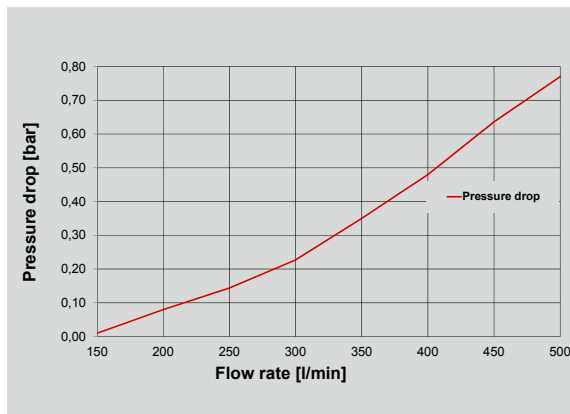
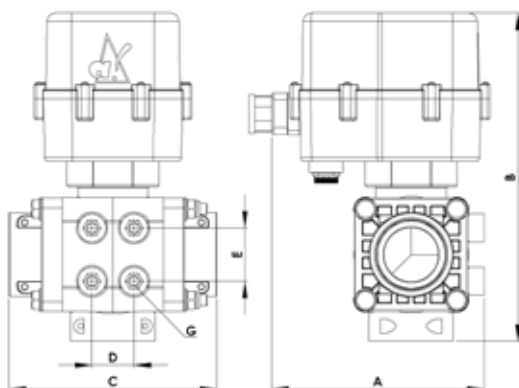
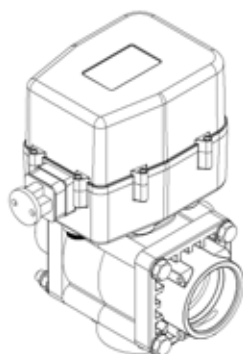




## Electrical 3-way ball valve ø39 mm bottom feed

- innovative sealing concept with modified Polyamid for increased service life
- gear drive for the valve mounted on low friction bearing
- compact with large 39 mm nominal width
- very short cycle time of 470 ms.
- optional: electric control with potentiometer

Operating time pressure:	max. 15 bar
Flow rate:	max. 500 l/min
Minimum diameter:	32 mm
Ball valve:	Stahl: 1.4305
Nominal voltage:	12 Volt / 24 Volt
Power input:	3,5 A bei 20 bar
Switch time:	450 ms
altek plug in system:	AS50
Seals:	modified polyamid
Material:	POM GF 25



Article-No.	Type
83175	Ball valve 3-way, electrical ø39mm 2 wire
83176	Ball valve 3-way, electrical ø39mm 3 wire
Recommended fittings	
17157	Plug-in hose tail AS50/ø46 cpl
17330	Plug-in hose tail AS50/ø46/90° cpl
22040	Plug-in hose tail AS50/ø39 cpl
24891	Plug-in hose tail AS50/ø39/90° cpl
80610	Plug-in hose tail AS50/G2/male cpl
82945	Plug-in hose tail AS50/AS40 cpl
More Fittings: see section Fittings AS50	

A	B	C	D	E	F	G
152	235	148	30	38	-	4 x M8
Specified in mm						







## Ball Valves SMART Series

The electronic operation system of altek's "smart series of ball valves" allows easier adjustments to customer needs by programming the print circuit accordingly. The ball valve operating electronics can be simply integrated into the customers hardware, either by CAN Bus or ISO Bus operation. Due to the fact that relays` are replaced by microelectronic building units, the functions can be programmed in such way that bi- directional operation is possible. It is also possible to have two ports partially open for flushing and draining the system.

- **Reduction of deposit: Possibility of changing the direction of rotation manually or automatically**
- **Integrated safety device in the smart board prevents the motor and the gear drive from being overloaded.**
- **Possibility for online diagnoses**
- **Permanent monitoring of the power draw protects the ball valve electronics and the electric motor.**
- **In case of blocked or hard moving ball the motor is cut out using thermal protection**





## Ball valves · Smart Series · Electrical 5-way 1¼"

### Electrical 5-way ball valve 1¼" Smart Series

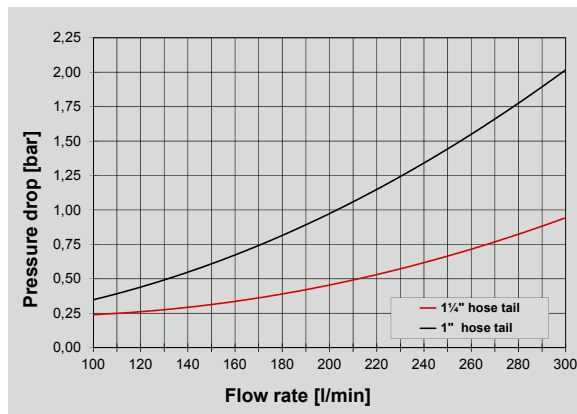
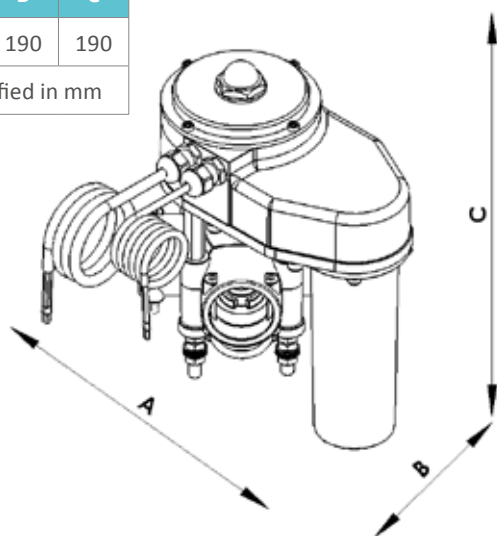
- Programmable Right and Left turning direction or both ways with the option to have two ports open for flushing the systems.
- To avoid deposit on the ball is it possible to change the direction of turning manually or automatically.
- In case of slow or rough-running of the drive the vibration mode can be used to free the ball. The choice can be either manual or automatic
- Network via CAN- or ISO-Bus systems, with the advantage of very high precision and the possibility for online-diagnoses. It is simple to integrate the ball valve operating electronic in the Hardware of OEM's

Operating time pressure:	max. 15 bar
Flow rate:	max. 300 l/min
Inlet-ø:	AS40
Outlet-ø:	AS40
Ball valve:	POM+PTFE
Nominal voltage:	12 Volt
Switch time:	360°/3,0 s
Material:	POM GF 25, PA, FPM and NBR seals

#### Options:

- Adapter for special connectors
- configurations of several ball valves are available upon request

A	B	C
235	190	190
Specified in mm		



Article-No.	Type
83449	Electrical 5-way ball valve 1¼" Smart Series
Recommended fittings	
80352	Plug-in hose tail AS40/ø20/90° cpl
09184	Plug-in hose tail AS40/ø25/90° cpl
08874	Plug-in hose tail AS40/ø33/90° cpl
08275	Plug-in hose tail AS40/ø39/90° cpl
80353	Plug-in hose tail AS40/ø20 cpl
04595	Plug-in hose tail AS40/ø25 cpl
04581	Plug-in hose tail AS40/ø33 cpl
06247	Plug-in hose tail AS40/ø39 cpl
80333	Dummy plug AS40 cpl
82614	Plug-in hose tail AS40/Banjo 2" cpl
More Fittings: see section Fittings AS40	





## Electrical 5-way ball valve 2" Smart Series

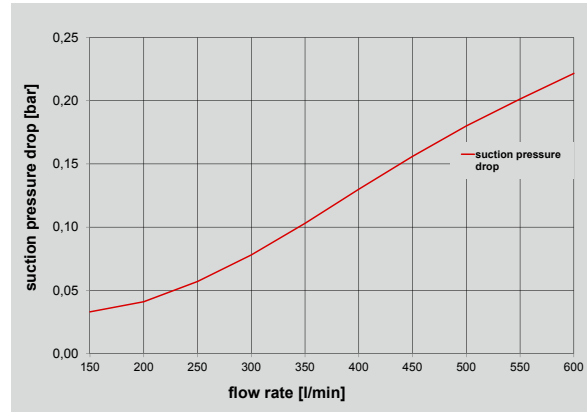
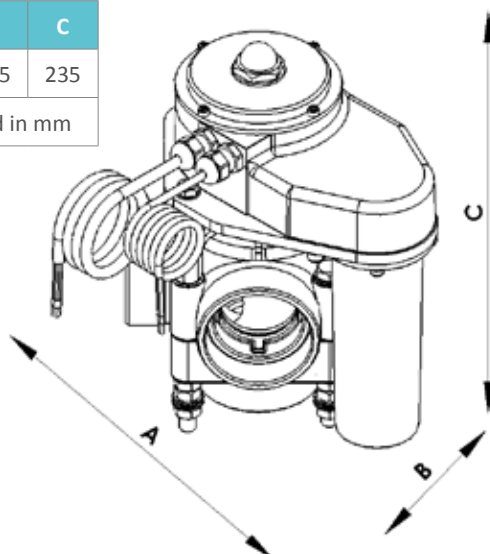
- Programmable Right and Left turning direction or both ways with the option to have two ports open for flushing the systems.
- To avoid deposit on the ball is it possible to change the direction of turning manually or automatically.
- In case of slow or rough-running of the drive the vibration mode can be used to free the ball. The choice can be either manual or automatic
- Network via CAN- or ISO-Bus systems, with the advantage of very high precision and the possibility for online-diagnoses. It is simple to integrate the ball valve operating electronic in the Hardware of OEM's

Operating time pressure: max. 3 bar  
 Flow rate: max. 600 l/min  
 Inlet-ø: 2"  
 Outlet-ø: 2"  
 Ball valve: POM+PTFE  
 Nominal voltage: 12 Volt  
 Switch time: 360°/3,0 s  
 Material: POM GF 25, PA, FPM and NBR seals

### Options:

- Adapter for special connectors
- configurations of several ball valves are available upon request

A	B	C
220	155	235
Specified in mm		



Article-No.	Type
83450	Electrical 5-way ball valve 2" Smart Series
Recommended fittings	
47713	Adapter for connector KH2/D1=47 cpl
47883	Adapter for connector KH2/D1=63 cpl
47737	Fitting G2/female cpl
47735	Fitting G2/male/L=47,5 cpl
47736	Fitting G2/male/L=75 cpl
47587	Nut G2½ for Fitting G2 Di=52,5 mm
47733	Nut G2½ for Fitting G2 Di=68 mm
More Fittings: see section Fittings AS40	





## Ball valves · Smart Series · Electrical 5-way 2", 15 bar

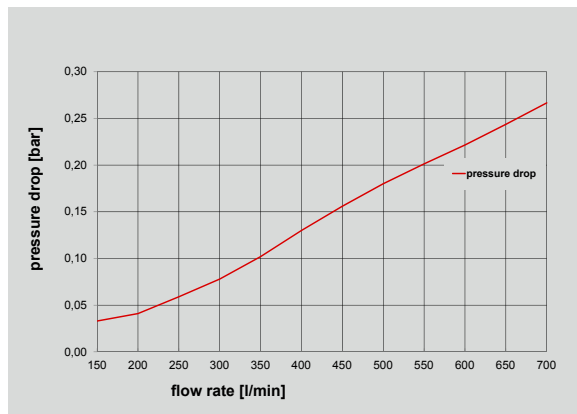
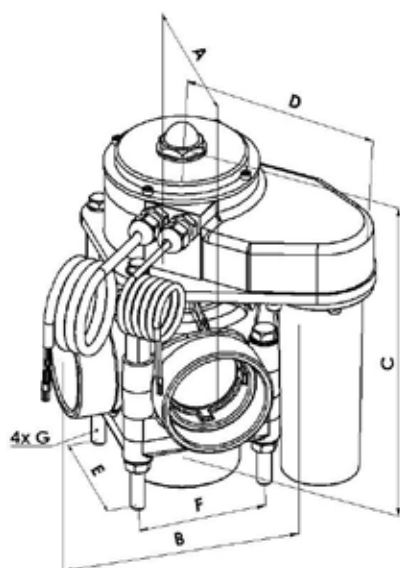
### Electrical 5-way ball valve 2", 15 bar Smart Series

- Programmable Right and Left turning direction or both ways with the option to have two ports open for flushing the systems.
- To avoid deposit on the ball it is possible to change the direction of turning manually or automatically.
- In case of slow or rough-running of the drive the vibration mode can be used to free the ball. The choice can be either manual or automatic
- Network via CAN- or ISO-Bus systems, with the advantage of very high precision and the possibility for online-diagnoses. It is simple to integrate the ball valve operating electronic in the Hardware of OEM's

Operating time pressure:	max. 15 bar
Flow rate:	max. 700 l/min
Inlet-ø:	2"
Outlet-ø:	2"
Ball valve:	POM+PTFE
Nominal voltage:	12 Volt
Switch time:	360°/3,0 s
Material:	POM GF 25, PA, FPM and NBR seals

#### Options:

- Adapter for special connectors (z.B. mit Gewinden kleiner G2)
- configurations of several ball valves are available upon request



Article-No.	Type
83451	Electrical ball valve 5-way 2", 15 bar Smart Series
<b>Recommended fittings</b>	
47713	Adapter for connector KH2/D1=47 cpl
47883	Adapter for connector KH2/D1=63 cpl
47737	Fitting G2/female cpl
47735	Fitting G2/male/L=47,5 cpl
47736	Fitting G2/male/L=75 cpl
82648	Nut G2 ¾ for Fitting G2 Di=68 mm
More Fittings: see section AS Fittings	

A	B	C	D	E	F	G
175	175	270	220	93	93	M10
Specified in mm						





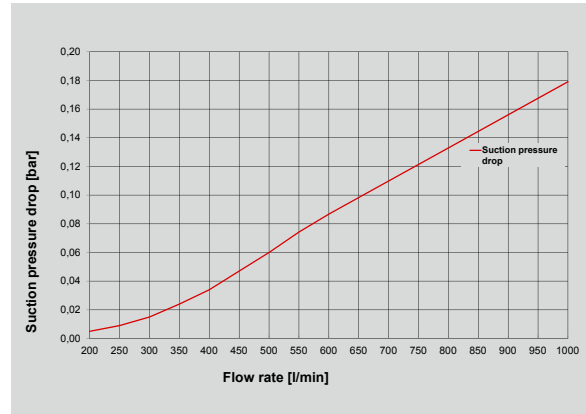
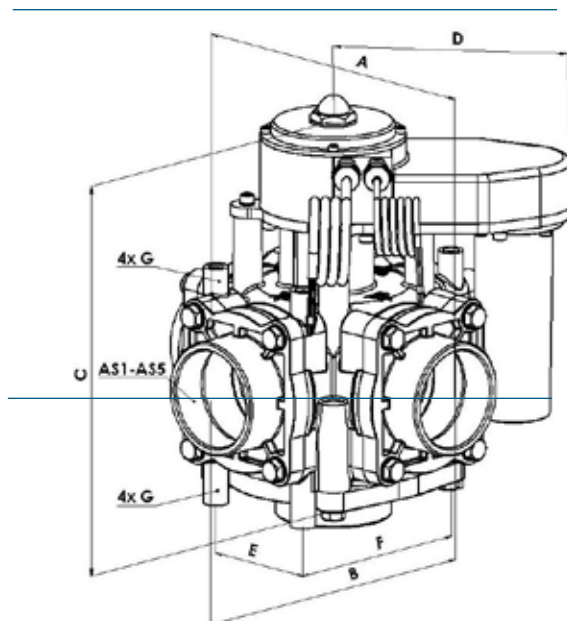
## Electrical 5-way ball valve 3" Smart Series

- Programmable Right and Left turning direction or both ways with the option to have two ports open for flushing the systems.
- To avoid deposit on the ball is it possible to change the direction of turning manually or automatically.
- In case of slow or rough-running of the drive the vibration mode can be used to free the ball. The choice can be either manual or automatic
- Network via CAN- or ISO-Bus systems, with the advantage of very high precision and the possibility for online-diagnoses. It is simple to integrate the ball valve operating electronic in the Hardware of OEM's

Operating time pressure: max. 3 bar  
 Flow rate: max. 1.000 l/min  
 Inlet-ø: 3"  
 Outlet-ø: 3"  
 Ball valve: POM+PTFE  
 Nominal voltage: 12 Volt  
 Switch time: 360°/3,0 s  
 Material: POM GF 25, PA, FPM and NBR seals

### Options:

- Adapter for special connectors
- configurations of several ball valves are available upon request



Article-No.	Type
83452	Electrical 5-way ball valve 3" Smart Series
82011	Flange KH3" cpl G3/male
82542	Flange KH3" cpl G2/female
Recommended fittingsEinlass (AS1-AS5)	
All fittings of the series of standard BSP fittings can be used	
More fittings: see section AS Fittings	

A	B	C	D	E	F	AS1-AS5	G
263	263	310	140	93	158	G3 male	M10
Specified in mm							







## Pressure filter

The efficient filtering of liquids is very important in the operation of the sprayer.

altek has developed specific features to their pressure filters:

The operators safety has been increased highly, since the filter element is removable to the top, during service. Undesirable contamination of chemicals to operator, environment and sprayer is avoided.

The innovative concept of the pressure filter ensures, that the return flow from the regulator can be used for permanent filter rinsing. Extended working time of the filter between servicing is the result.

Only the portion of liquid necessary for the boom spraying gets filtered. This increases the capacity of the filter.

### Overview of features:

- Available in 2 sizes
  - 260 l/min and AS40 connectors.
  - 500 l/min and AS50 connectors
- Max. operating pressure up to 15 bar, pressure peaks up to 20 bar
- Extended protection for operator, environment and sprayer, due to reduced risk of contamination during service is avoided
- Innovative filter concept allows permanent filter cleaning
- Smaller filter elements sizes are possible because filtering of the liquid for the spray boom only
- filter inserts sizes available in 30, 50, 80 and 100 mesh

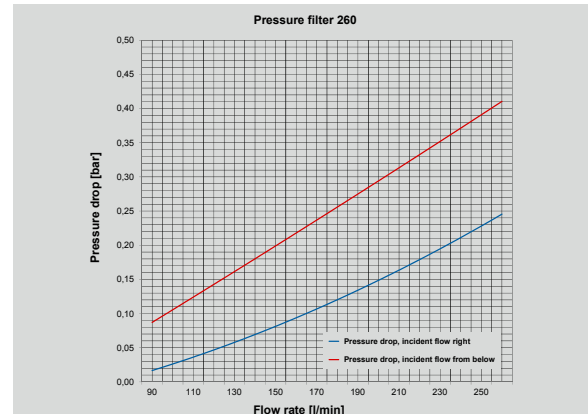


## Filter · Pressure filter 260 L

### Pressure filter 260 L

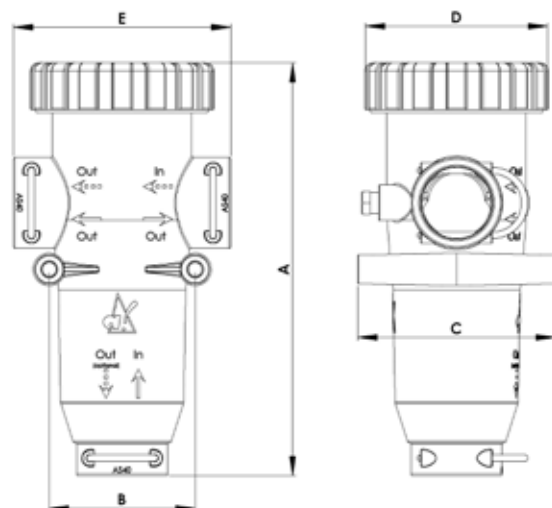
- innovative concept of internal sealing
- self cleaning feature for long return service
- the filter can be serviced without draining and no chemical loss

Maximum pressure: 15 bar  
 Maximum flow rate: 260 l/min  
 Outlet-ø self rinsing valve: AS40  
 Pressure gauge connection: 2 x G¼  
 Filter meshes: stainless steel: 1.4305  
 Seals: FPM  
 Filter body: POM GF 25



#### Recommended Fittings

Article-No.	Type
04595	Plug-in hose tail AS40/ø25 kpl
04581	Plug-in hose tail AS40/ø33 kpl
09184	Plug-in hose tail AS40/ø25/90° kpl
80357	Plug-in hose tail AS40/ø25
34232	Plug-in hose tail AS40/ø33
More Fittings: see section AS40 Fittings	



A mm	B mm	C mm
255	90	122
D mm	E mm	
113	134	

#### Pressure filter variants

Article-No.	Type	AS	Filter insert	Mesh	Color code
82788	Pressure filter Dfi 260/M32	40	82780	32 mesh/inch	Red
82789	Pressure filter Dfi 260/M50	40	82781	50 mesh/inch	Blue
82790	Pressure filter Dfi 260/M80	40	82782	80 mesh/inch	Yellow
82791	Pressure filter Dfi 260/M100	40	82783	100 mesh/inch	Green

\*BS = Modular construction system

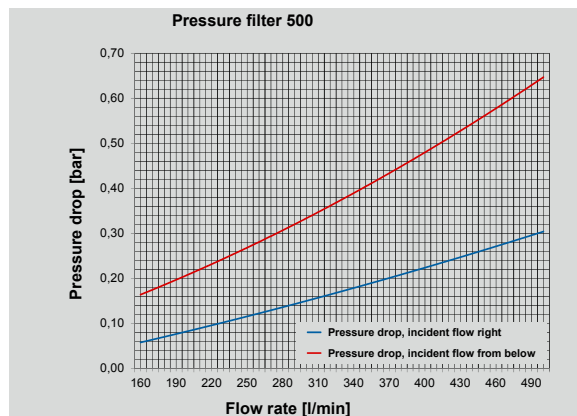




## Pressure filter 500 L

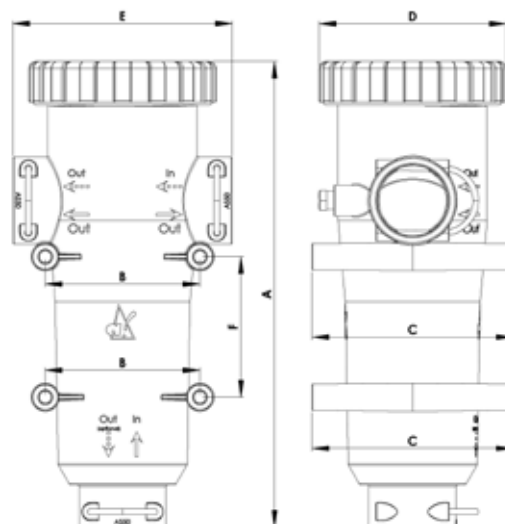
- innovative concept of internal sealing
- self cleaning feature for long return service
- the filter can be serviced without draining and no chemical loss

Maximum pressure: 15 bar  
 Maximum flow rate: 500 l/min  
 Outlet-ø self rinsing valve: AS50  
 Pressure gauge connection: G $\frac{1}{4}$   
 Filter meshes: stainless steel: 1.4305  
 Seals: FPM  
 Filter body: POM GF 25



### Recommended Fittings

Article-No.	Type
17157	Plug-in hose tail AS50/ø46 cpl
17330	Plug-in hose tail AS50/ø46/90° cpl
22040	Plug-in hose tail AS50/ø39 cpl
24891	Plug-in hose tail AS50/ø39/90° cpl
80610	Plug-in hose tail AS50/G2/male cpl
More Fittings: see section AS50 Fittings	



A mm	B mm	C mm
332	110	143
D mm	E mm	F mm
133	156	100

### Pressure filter variants

Article-No.	Type	AS	Filter insert	Mesh	Color code
82792	Pressure filter Dfi 500/M32	50	82784	32 mesh/inch	Red
82793	Pressure filter Dfi 500/M50	50	82785	50 mesh/inch	Blue
82794	Pressure filter Dfi 500/M80	50	82786	80 mesh/inch	Yellow
82795	Pressure filter Dfi 500/M100	50	82787	100 mesh/inch	Green

\*BS = Modular construction system



## Pressure filter insert

- stainless steel filter
- large filter area through compact design

### Pressure filter inserts Dfi 260

Article-No.	Type	Filter mesh	Color code
82780	Pressure filter insert Dfi 260	32 mesh/inch	
82781	Pressure filter insert Dfi 260	50 mesh/inch	
82782	Pressure filter insert Dfi 260	80 mesh/inch	
82783	Pressure filter insert Dfi 260	100 mesh/inch	

### Pressure filter inserts Dfi 500

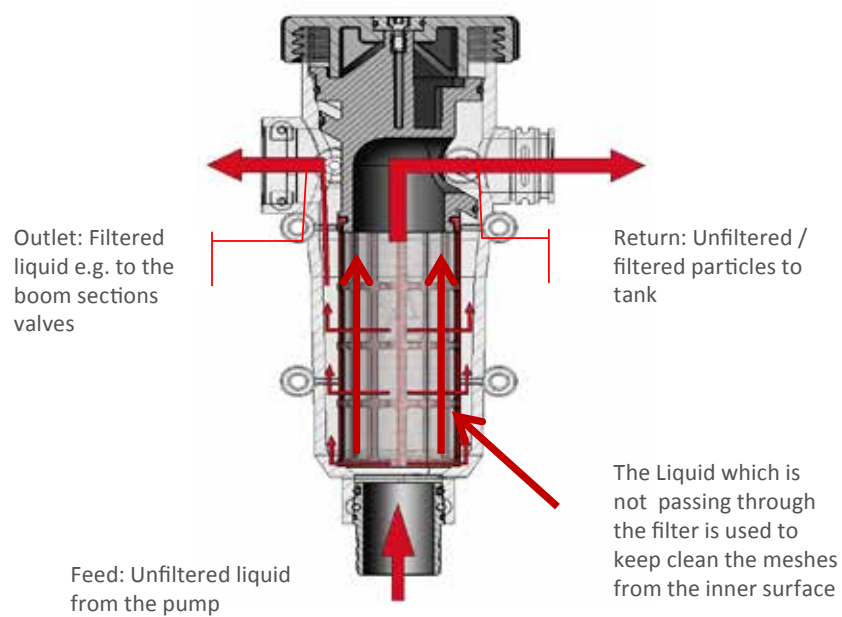
82784	Pressure filter insert Dfi 500	32 mesh/inch	
82785	Pressure filter insert Dfi 500	50 mesh/inch	
82786	Pressure filter insert Dfi 500	80 mesh/inch	
82787	Pressure filter insert Dfi 500	100 mesh/inch	

### Self rinsing valve

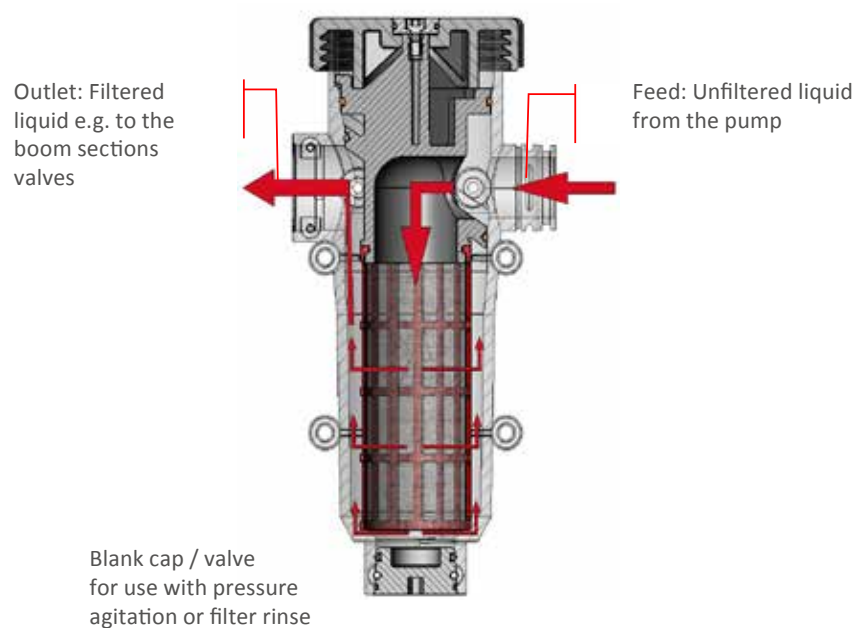
Article-No.	Type	To be used with
83744	Adapter AS50 with self rinsing valve	Pressure filter 500l
83745	Adapter AS40 with self rinsing valve	Pressure filter 260l



## Operating mode of self cleaning filter



## Conventional Mode (No self cleaning action)







## Pressure Regulator electrical

The pressure regulator divides the total pump output and controls the volume of liquid required for the spray boom. The surplus volume is sent back to the tank as return flow. In this function the regulator is an important component in terms of precise and economic spraying.

The electrical regulator 400 from altek has some specific advantages:

The housing ports are Altek AS40 connectors. This allows an easy and cost saving assembly process. Thanks to the altek quick-fit components range functional units can be assembled easily. The aerodynamic feature of the housing cause minimum flow losses

Due to the design it is possible to connect pumps with outputs up to 450 l/min. Two motor speeds allow individual application tasks. The piston guide is precise and free of clearance. Thus ensuring the correct application is assured. Micro switches at the end positions avoid any overload or overheating of the DC motor.



## Regulators · Electrical proportional regulator 400

### Electrical proportional regulator 400

- compact and flexible construction
- high flow rate
- flexible control response time
- modular unit
- quick and flexible assembly through Quick-Fit System
- comfortable manual emergency operation of for regulator and 3-way valves

Maximum pressure:	15 bar
Maximum flow rate:	450 l/min
Inlet-Ø:	AS40
Return flow-Ø:	Ø39 hose connection
Outlet-Ø:	AS40
Nominal voltage:	12 Volt
Material:	POM GF 25 stainless steel 1.4305 FPM und NBR seals

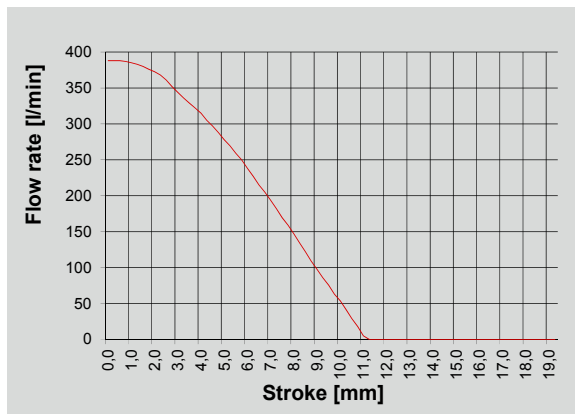
#### Recommended fittings inlet

Article-No.	Type
08354	Female hose tail AS40/Ø20
80357	Female hose tail AS40/Ø25
34232	Female hose tail AS40/Ø33
34231	Female hose tail AS40/Ø39

Other fittings are available upon request

#### Recommended fittings return flow

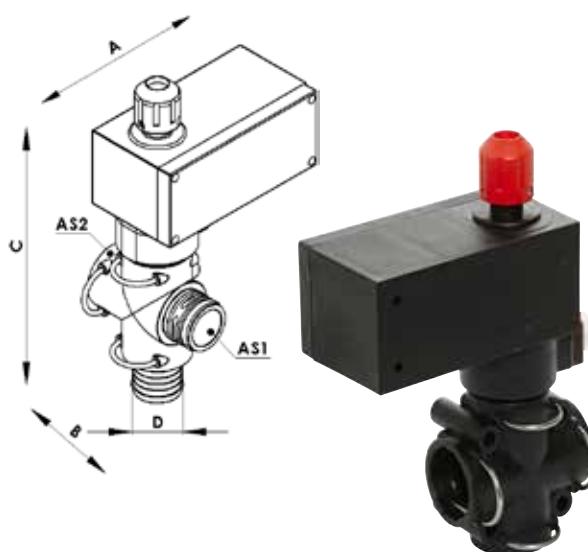
09184	Plug-in hose tail AS40/Ø25/90° cpl
08874	Plug-in hose tail AS40/Ø33/90° cpl
08275	Plug-in hose tail AS40/Ø39/90° cpl
04595	Plug-in hose tail AS40/Ø25 cpl
04581	Plug-in hose tail AS40/Ø33 cpl
06247	Plug-in hose tail AS40/Ø39 cpl
17409	Plug-in hose tail AS40/Ø46 cpl



#### Regulator variant

Article-No.	Type	Electrical connection
81745	Electrical proportional regulator 400 approx 17 s	Cube plug DIN 175301
82200	Electrical proportional regulator 400 approx 12 s	Cube plug DIN 175301

A mm	B mm	C mm	AS1	AS2	D mm
180	105	300	40	40	39





## Proportional regulator 120 · 200 · 300

altek Mechanical proportional regulators are available for use in sprayers with flow rates of 100-300 litres/min.

altek Electrical proportional regulators are available for use in sprayers with flow rates of 100-400 litres/min

**Proportional regulators (120/200) offer the following advantages:**

- A mechanical master shut-off valve with integrated circulation by means of a venture nozzle ensures an immediate pressure reduction in the spray lines is achieved when the master valve is closed. Advantage: Quick closure of the nozzle and no dripping
- The cross-sectional design of the regulators ensures that with speed changes within the ranges of + 25%, the flow rate is increased or decreased proportionally
- An integrated pressure relief valve pre-set at 10 bar protects the system from any pressure peaks
- The return-flow connection may be utilised for use with tank agitation
- Pressure gauge connection G $\frac{1}{4}$ " thread: A special sealing ring allows for adjustment of pressure gauge
- altek plug-in system for quick attachment of hose connection
- Regulators 300 & 400: For features and benefits of these products see specification sheets





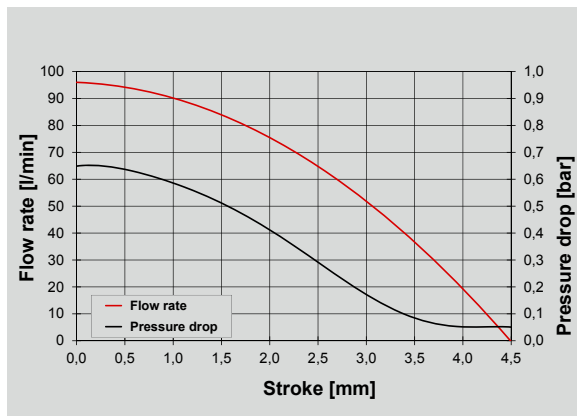
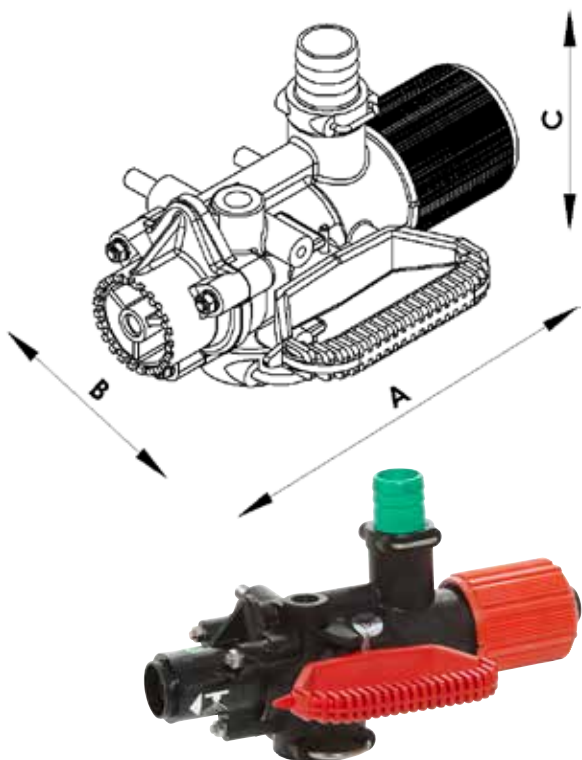
## Regulators · Proportional regulator 120

### Proportional regulator 120

- mechanical central shut off
- integrated suck back system
- cross-sectional control for a constant output quantity even in case of speed fluctuations
- integrated safety valve
- pressure gauge connection with G $\frac{1}{4}$ - thread
- compatible with the altek modular system

Maximum pressure:	10 bar
Maximum flow rate:	120 l/min
Inlet- $\phi$ :	AS30
Return flow- $\phi$ :	25 mm hose connection
Outlet- $\phi$ :	24 mm, tuned to fit the altek modular system
Material:	POM GF 25 stainless steel 1.4305 FPM und NBR seals, POM

A mm	B mm	C mm	D mm	E mm
225	125	135	64	42



#### Regulator variant

Article-No.	Type	Article-No.
47008	1 Proportional regulator 120	32726
	1 Pressure filter with drain valve	34606
	3 Mechanical constant pressure valve 36/AS20	21920

More Regulator assemblies are available upon request

#### Recommended valves

Article-No.	Type
01400	Mechanical shut off valve 24/AS20
14578	Mechanical shut off valve 36/AS24
39767	Mechanical shut off valve 36/ $\phi$ 25mm
34622	Mechanical double valve 36/AS20
21920	Mechanical constant pressure valve 36/AS20

#### Recommended fittings inlet

08337	Plug-in hose tail AS30/ $\phi$ 25/90° cpl
33793	Plug-in hose tail AS30/ $\phi$ 33/90° cpl
81119	Plug-in hose tail AS30/ $\phi$ 25 cpl
01399	Plug-in hose tail AS30/ $\phi$ 33 cpl

More Fittings: see section AS30 Fittings



## Proportional regulator 200

- mechanical central shut off
- integrated suck back system
- cross-sectional control for a constant output quantity even in case of speed fluctuations
- integrated safety valve
- pressure gauge connection with G $\frac{1}{4}$ - thread
- compatible with the altek modular system

Maximum pressure: 10 bar  
 Maximum flow rate: 200 l/min  
 Inlet- $\phi$ : AS30  
 Return flow- $\phi$ : 25 mm hose connection  
 Outlet- $\phi$ : 36 mm, tuned to fit the altek modular system  
 Material: POM GF 25  
 stainless steel 1.4305  
 anodised cast aluminium  
 FPM and NBR seals

### Recommended valves

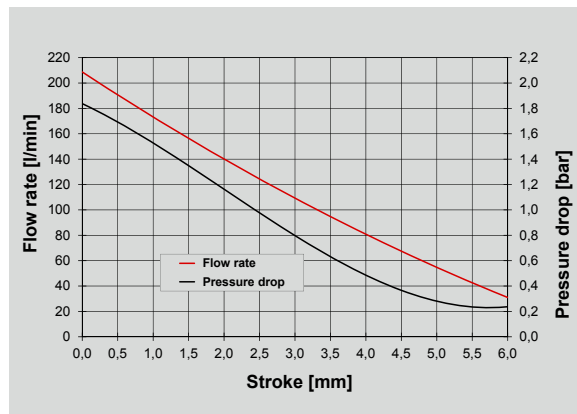
Article-No.	Type
01400	Mechanical shut off valve 24/AS20
14578	Mechanical shut off valve 36/AS24
39767	Mechanical shut off valve 36/ $\phi$ 25mm
34622	Mechanical double valve 36/AS20
21920	Mechanical constant pressure valve 36/AS20
47942	Electrical shut off valve 36/AS24

### Recommended fittings inlet

08337	Plug-in hose tail AS30/ $\phi$ 25/90° cpl
33793	Plug-in hose tail AS30/ $\phi$ 33/90° cpl
81119	Plug-in hose tail AS30/ $\phi$ 25 cpl
01399	Plug-in hose tail AS30/ $\phi$ 33 cpl

More Fittings: see section AS30 Fittings

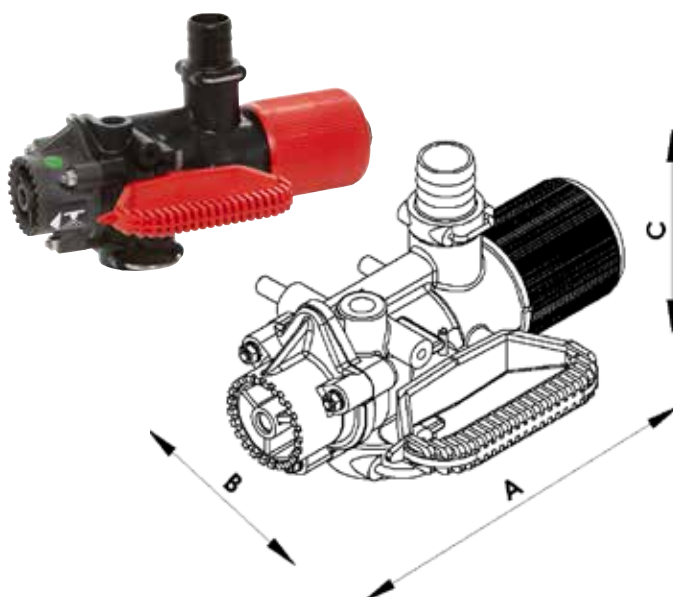
A mm	B mm	C mm	D mm	E mm
225	120	130	64	42



### Regulator variant

Article-No.	Type	Article-No.
31479	1 Proportional regulator 200 1 Pressure filter with drain valve 3 Mechanical constant pressure valve 36/AS20	32772 34606 21920
82615	1 Proportional regulator 200 1 Pressure filter with drain tap G 2 Electrical shut off valve 36/AS24	32772 34606 47942
82616	1 Proportional regulator 200 1 Pressure filter with drain tap G 4 Electrical shut off valve 36/AS24	32772 34606 47942

More Regulator assemblies are available upon request





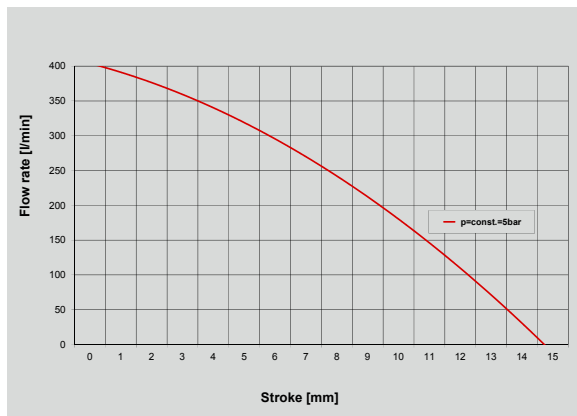
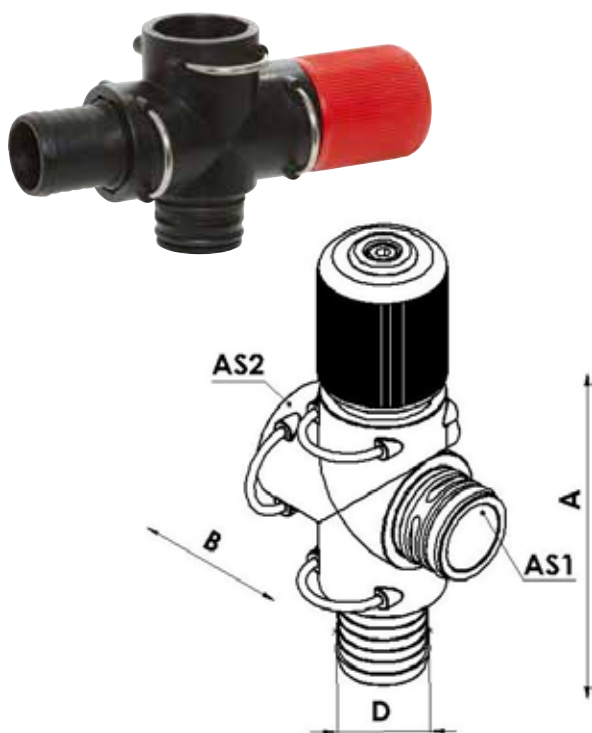
## Regulators · Manually poportional regulator 300

### Manual proportional regulator 300

- compact and flexible construction
- high flow rate
- self-contained working
- compatible when used with
- piston free of play

Maximum pressure: 15 bar  
 Maximum flow rate: 300 l/min  
 Inlet-ø: AS40  
 Return flow-ø: ø39 - hose connection  
 Outlet-ø: AS40  
 Nominal voltage: 12 Volt  
 Material: POM GF 25  
 stainless steel 1.4305  
 FPM und NBR seals

A mm	B mm	AS1	AS2	D mm
180	105	40	40	39



#### Regulator variant

Article-No.	Type
81873	Manual proportional regulator 300, with Cross piece
82199	Manual proportional regulator 300, with T-pieces

#### Recommended fittings inlet

Article-No.	Type
08354	Female hose tail AS40/ø20
80357	Female hose tail AS40/ø25
34232	Female hose tail AS40/ø33
34231	Female hose tail AS40/ø39

More Fittings: see section AS40 Fittings

#### Recommended fittings return flow

09184	Plug-in hose tail AS40/ø25/90° cpl
08874	Plug-in hose tail AS40/ø33/90° cpl
08275	Plug-in hose tail AS40/ø39/90° cpl
04595	Plug-in hose tail AS40/ø25 cpl
04581	Plug-in hose tail AS40/ø33 cpl
06247	Plug-in hose tail AS40/ø39 cpl
17409	Plug-in hose tail AS40/ø46 cpl



## Constant Pressure Regulator 120 · 200

Our constant pressure regulators are particularly suited to the small and medium sized sprayers with flow rates of 70 – 200 litres/min, and offer users the following benefits:

- A mechanical master shut-off valve with integrated circulation by means of a venture nozzle ensures an immediate pressure reduction in the spray lines is achieved when the master valve is closed. Advantage: Quick closure of the nozzle and no dripping
- The Pressure regulator ensures a constant output is maintained even in the case of speed fluctuations
- An integrated pressure relief valve pre-set at 10 bar protects the system from any pressure peaks
- The return-flow connection may be utilised for use with tank agitation
- Pressure gauge connection G $\frac{1}{4}$ " thread: A special sealing ring allows for adjustment of pressure gauge
- altek plug-in system for quick attachment of hose connection



## Regulators · Constant pressure regulator 120

### Constant pressure regulator 120

- mechanical central shut off
- integrated suck back system
- cross-sectional control for a constant output quantity even in case of speed fluctuations
- integrated safety valve
- pressure gauge connection with G $\frac{1}{4}$ - thread
- compatible with the altek modular system

Maximum pressure:	10 bar
Maximum flow rate:	120 l/min
Inlet- $\phi$ :	AS30
Return flow- $\phi$ :	25 mm hose connection
Outlet- $\phi$ :	24 mm, tuned to fit the altek modular system
Material:	POM GF 25 stainless steel 1.4305 FPM and NBR seals

#### Options:

- 20 bar regulator available on request

#### Recommended valves

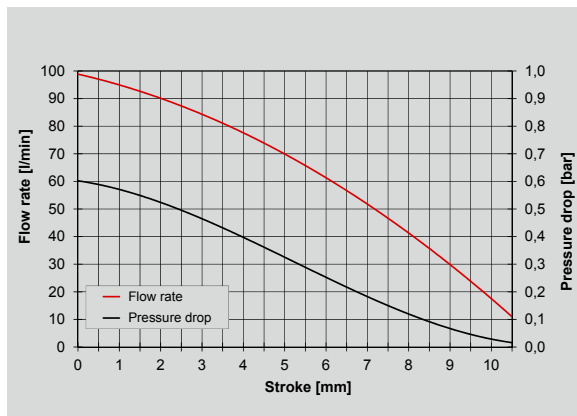
Article-No.	Type
01400	Mechanical shut off valve 24/AS20
14578	Mechanical shut off valve 36/AS24
39767	Mechanical shut off valve 36/ $\phi$ 25mm
34622	Mechanical double valve 36/AS20
21920	Mechanical constant pressure valve 36/AS20

#### Recommended fittings inlet

08337	Plug-in hose tail AS30/ $\phi$ 25/90° cpl
33793	Plug-in hose tail AS30/ $\phi$ 33/90° cpl
81119	Plug-in hose tail AS30/ $\phi$ 25 cpl
01399	Plug-in hose tail AS30/ $\phi$ 33 cpl

More Fittings: see section AS30 Fittings

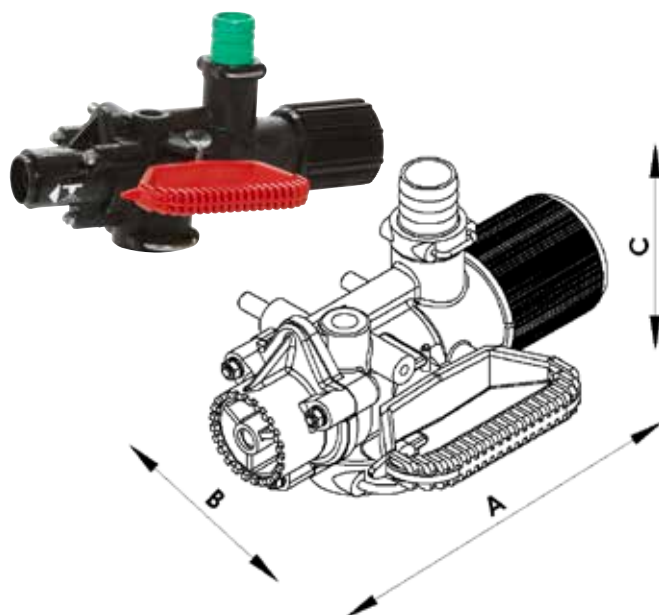
A mm	B mm	C mm	D mm	E mm
240	120	130	64	42



#### Regulator variant

Article-No.	Type	Article-No.
80146	1 Constant pressure regulator 120/100 cpl	26071
	1 Pressure filter 24/AS20/M65 with return flow	47010
	4 Mechanical shut off valve 24/AS20	01400
80148	1 Constant pressure regulator 120/100 cpl	34689
	1 Pressure filter 24/M65 with drain tap	34667
	2 Mechanical shut off valve 24/AS20	01400

More Regulator assemblies are available upon request





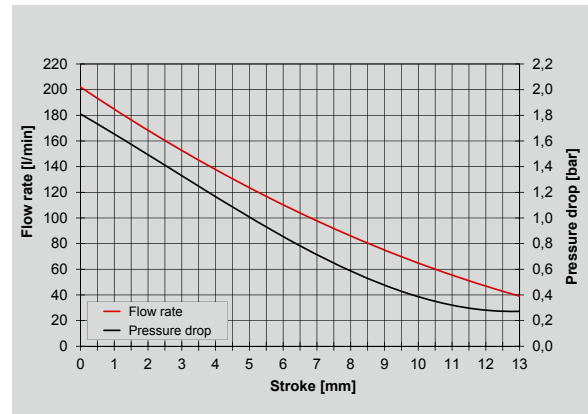
## Constant pressure regulator 200

- mechanical central shut off
- integrated suck back system
- pressure regulator for a constant spraying pressure
- integrated safety valve
- pressure gauge connection with G $\frac{1}{4}$ - thread
- compatible with the altek modular system

Maximum pressure:	10 bar
Maximum flow rate:	200 l/min
Inlet- $\phi$ :	AS30
Return flow- $\phi$ :	25 mm hose connection
Outlet- $\phi$ :	36 mm, tuned to fit the altek modular system
Material:	POM GF 25 stainless steel 1.4305 anodised cast aluminium FPM and NBR seals

### Options:

- 20 bar regulator available on request

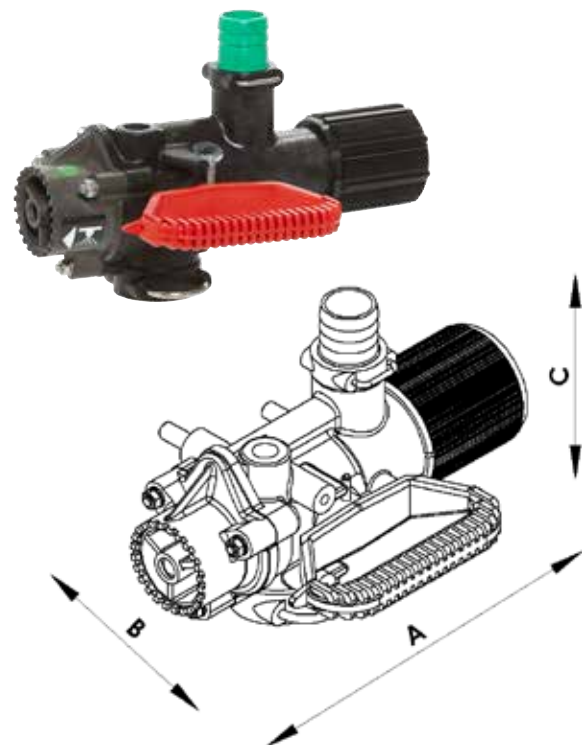


### Regulator variant

Article-No.	Type	Article-No.
34736	Constant pressure regulator 200	
More Regulator assemblies are available upon request		

A mm	B mm	C mm	D mm	E mm
220	120	135	64	42

Recommended valves	
Article-No.	Type
01400	Mechanical shut off valve 24/AS20
14578	Mechanical shut off valve 36/AS24
39767	Mechanical shut off valve 36/ $\phi$ 25mm
34622	Mechanical double valve 36/AS20
21920	Mechanical constant pressure valve 36/AS20
Recommended fittings inlet	
08337	Plug-in hose tail AS30/ $\phi$ 25/90° cpl
33793	Plug-in hose tail AS30/ $\phi$ 33/90° cpl
81119	Plug-in hose tail AS30/ $\phi$ 25 cpl
01399	Plug-in hose tail AS30/ $\phi$ 33 cpl
More Fittings: see section AS30 Fittings	









## altek Regulators

altek have been manufacturing regulators for use in plant protection equipment for over 30 years. There are many tens of thousands of sprayers around the world fitted with altek regulators providing reliable service to their operators.

Today altek regulating products are manufactured using the very latest technology in our modern design and production facility located in Germany.

Altek pressure regulators offer many distinctive features and benefits unique to altek products.

Altek offer three versions of pressure regulators: Mechanical constant pressure, Mechanical proportional regulator and Electrical proportional regulator.

The following pages provide an overview of these products.



## Regulators · Regulator assemblies

Regulator assemblies		
Picture	Article-No.	Type
	31473	Regulator 120 Proportional DFIK+3MAV24/AS20
	35038	Regulator 120 Proportional 3MAV24/AS20
	41064	Regulator 120 Proportional DFIR+5MGV36/AS20
	41063	Regulator 120 Proportional DFIR+3MGV36/AS20
	25807	Regulator 120/101 Constant Pressure 3MAV24/AS20
	26071	Regulator 120 Constant Pressure 3MAV24/AS20



Regulator assemblies		
Picture	Article-No.	Type
	41058	Regulator 120/101 Constant Pressure DFiK+3MAV24/AS20
	31479	Regulator 200 Proportional DFi+3MGV36/AS20
	32726	Regulator 120/100 Proportional cpl
	32772	Regulator 200 Proportional cpl
	83056	Manifold 2xMAV36/AS24 red/yellow

More Regulator assemblies are available upon request – contact us!





## Pressure relief valve 3–15 bar

Pressure relief valves –also called safety valves– applied in sprayers are ensuring a maximum pressure in order to prevent any bursting hoses or components. They are safety-related components.

Altek offers fix adjusted relief valves applicable for various pressure levels. The valve housing with AS40 connectors allows an easy and cost saving assembly process. Due to the big cross section and the aerodynamic housing they can be used for outputs of 400 l/min. For all that, they are very firm and well fitted to the Altek quick-fit system.



## Pressure relief valve

### Pressure relief valve

- safe and quick assembly using the altek plug-in system
- fully integratable with modular-fit and quick-fit and quick-fit valve series
- flat characteristic curve
- double piston sealing
- additional piston guide

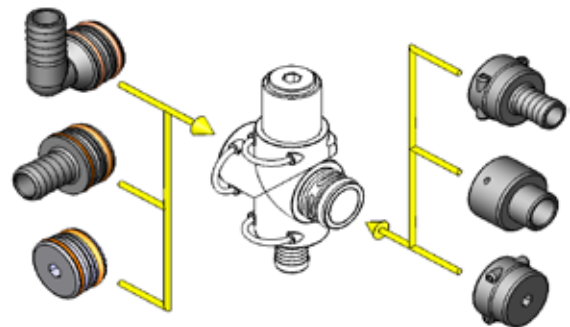
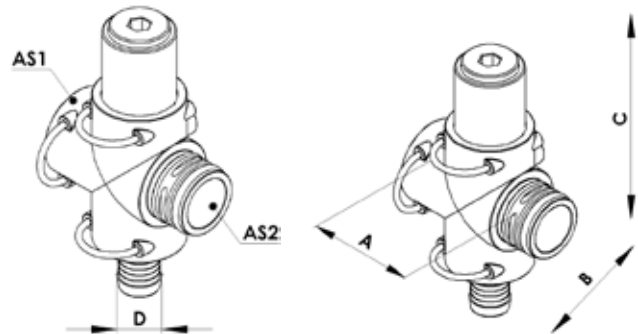
Flow rate: 100–400 l/min  
 Opening pressure: 10 bar\*  
 Max pressure: 11 bar\*\*  
 Maxpressure: 13,5 bar  
 Closing pressure: 7,2 bar bei 260 l/min  
 Material: POM GF 25,  
 Steel: 1.4305, FPM and  
 NBR seals

\* Slow reduction of the load flow rate down to  
 0 litres/minute at 260 litres/minute inflow

\*\* Sudden reduction of the load flow rate down to  
 0 litres/minute at 260 litres/minute inflow

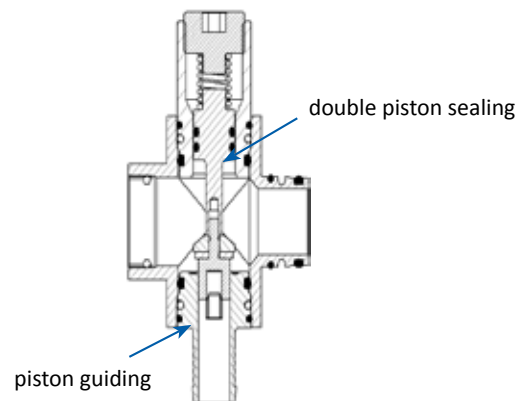
#### Recommended Fittings AS40

Article-No.	Type
04595	Plug-in hose tail AS40/ø25 cpl
04581	Plug-in hose tail AS40/ø33 cpl
09184	Plug-in hose tail AS40/ø25/90° cpl
80357	Plug-in hose tail AS40/ø25 cpl
34232	Plug-in hose tail AS40/ø33 cpl
47993	Blind cap AS40
More Fittings: see section AS40 Fittings	



Plug-in hose tail

Female hose tail



Article-No.	Type	Color	AS1	AS2	D mm	A mm	B mm	C mm
83275	Pressure control valve QFPR, 3 bar	Blue	40	40	33	105	65	190
83276	Pressure control valve QFPR, 6 bar	Green	40	40	33	105	65	190
81493	Pressure control valve QFPR, 10 bar	Yellow	40	40	25	105	65	190
82994	Pressure control valve QFPR, 15 bar	Red	40	40	25	105	65	190



## Mechanical valves

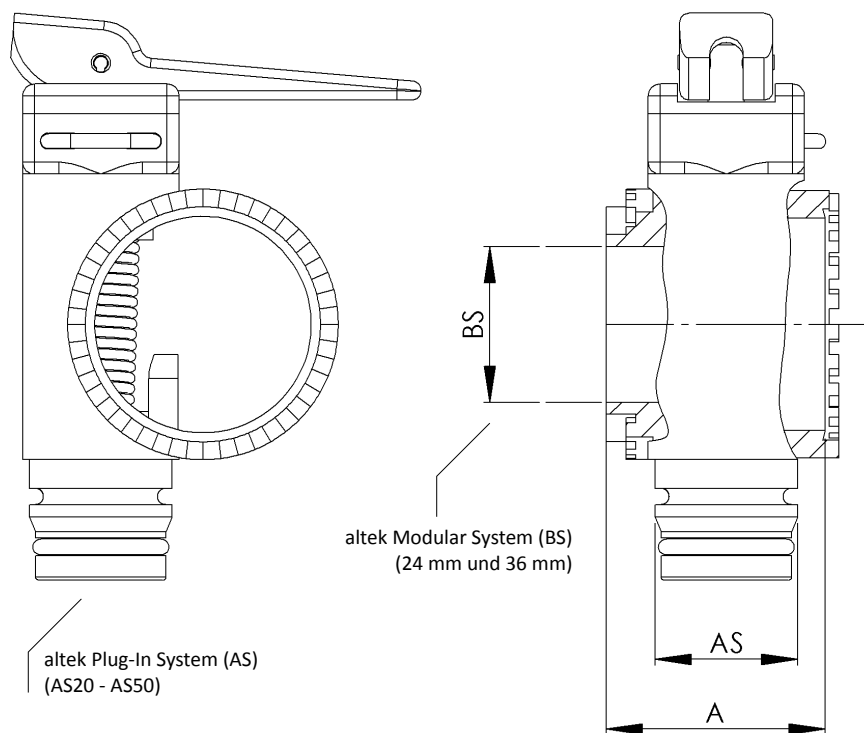
As a leading expert in the field of sprayer altek is constantly using a modular assembly system. Furthermore altek is maintaining excellent relationships to sprayer manufacturers as well as to end users. Both facts together enable us to design our different valve concepts according to the distinct needs and wants of our customers, what implies that retrofits to existing sprayers are technically feasible as well. altek's philosophy of a modular assembly system in conjunction with high emphasis on system integration will be maintained in the future.





## altek modular system

Since the very beginning altek is using the modular assembly system for its valves and regulators. This assures that all components in our regulator and valve system can be combined with each other. Thereby the main advantage of this system is its flexibility and adaptability to different individual requirements of our customers. Which product line a distinct component belongs to directly refers to its designation. For instance, a “mechanical shut off valve 36/AS24” belongs to the 24mm product line, whereupon the number after the slash is referring to altek’s plug-in system.





## Mechanical shut off valve 24/AS20

- simple mechanical shut off valve for hoses until 16 mm
- coloured levers for different functions
- optimal designed for our regulator systems
- individual choice of valve alignment
- robust construction
- multi-combinable with the altek modular system

Maximum pressure: 12 bar  
 Inlet-ø: 24 mm, tuned to fit the altek modular system  
 Outlet-ø: AS20  
 Material: POM, PA, stainless steel 1.4305, FPM and NBR seals

### Options:

- Additional colours for levers are available on request
- Other colours for control lever upon request

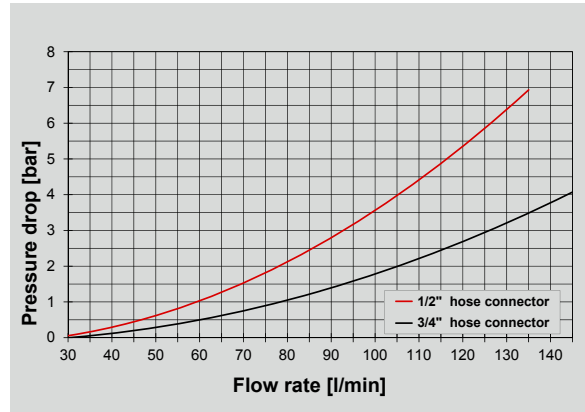
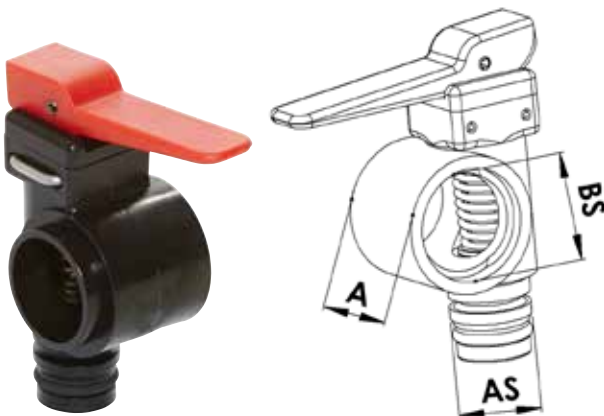
### Recommended safety pins

Art.No.	Type
02752	Pin AS20

### Recommended fittings outlet

34237	Female hose tail AS20/ø12
34236	Female hose tail AS20/ø15
37238	Female hose tail AS20/ø17

More Fittings: see section Fittings, AS20



Art.No.	Type	Remarks Control lever
01400	MAV 24/AS20	Control lever colour: Red Control lever forward-turned
47809	MAV 24/AS20	Control lever colour: Red Control lever backward-turned
47811	MAV 24/AS20	Control lever colour: Green Control lever forward-turned
47815	MAV 24/AS20	Control lever colour: Green Control lever backward-turned
47812	MAV 24/AS20	Control lever colour: Blue Control lever forward-turned
47816	MAV 24/AS20	Control lever colour: Blue Control lever backward-turned
47813	MAV 24/AS20	Control lever colour: Black Control lever forward-turned
47817	MAV 24/AS20	Control lever colour: Black Control lever backward-turned
47814	MAV 24/AS20	Control lever colour: Yellow Control lever forward-turned
47818	MAV 24/AS20	Control lever colour: Yellow Control lever backward-turned

BS mm	AS	A mm
24	20	30



## Mechanical valves · Mechanical shut off valve 36/AS24

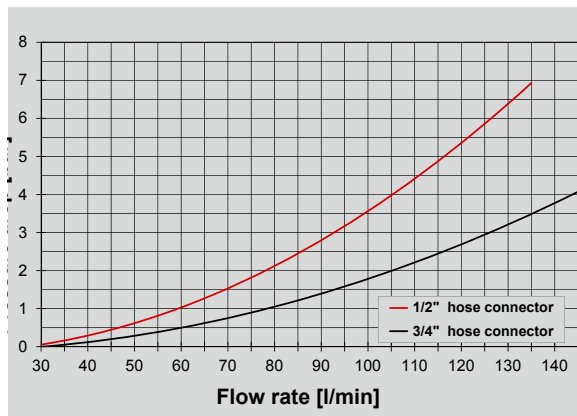
### Mechanical shut off valve 36/AS24

- simple mechanical shut off valve for hoses until 16 mm
- coloured levers for different functions
- optimal designed for our regulator systems
- individual choice of valve alignment
- robust construction
- multi-combinable with the altek modular system Baukastensystem

Maximum pressure: 12 bar  
 Inlet-ø: 36 mm, tuned to fit the altek modular system  
 Outlet-ø: AS24  
 Material: POM, PA, stainless steel: 1.4305, FPM and NBR seals

#### Options:

- Additional colours for levers are available on request



Art.No.	Type	Remarks Control lever
82193	Mechanical shut off valve 36/AS24	Control lever forward-turned
47810	Mechanical shut off valve 36/AS24	Control lever backward-turned

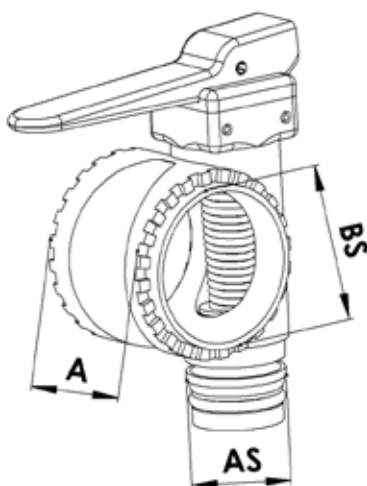
#### Recommended safety pins

Art.No.	Type
18545	Pin AS24

#### Recommended fittings outlet

34230	Female hose tail AS24/ø15
34229	Female hose tail AS24/ø17
34227	Female hose tail AS24/ø20

More Fittings: section Fittings, AS24



BS mm	AS	A mm
36	24	35





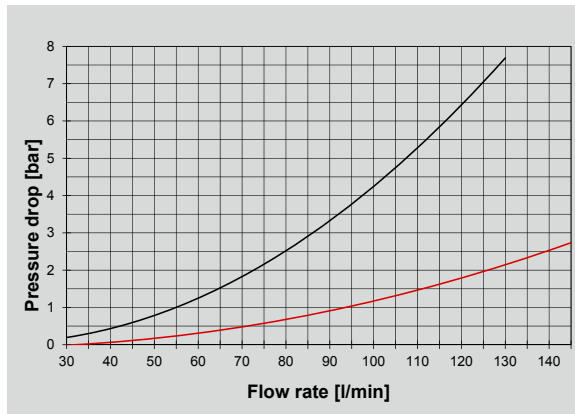
## Mechanical double valve 36/AS20

- simple mechanical shut off valve for hoses until 16 mm
- coloured levers for different functions
- optimal designed for our regulator systems
- individual choice of valve alignment
- robust construction
- multi-combinable with the altek modular system

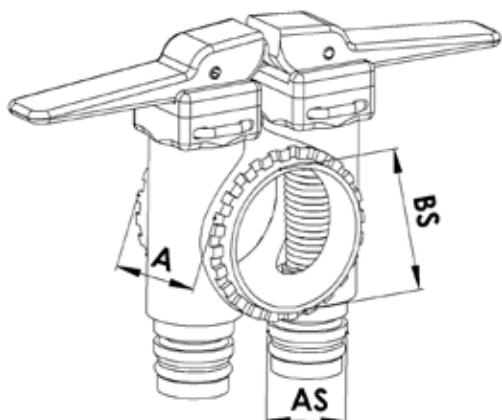
Maximum pressure: 12 bar  
 Inlet-Ø: 36 mm, tuned to fit the altek modular system  
 Outlet-Ø: 2 connections AS20  
 Material: POM, PA, stainless steel: 1.4305, FPM and NBR seals

### Options:

- Additional colours for levers are available on request



Art.-Nr.	Type	Remarks Control lever
34622	Mechanical Double valve 36/AS20	Control lever colour forwards: Red Control lever backwards: Red
47310	Mechanical Double valve 36/AS20	Control lever colour forwards: Yellow Control lever colour backwards: Blue
47311	Mechanical Double valve 36/AS20	Control lever colour forwards: Green Control lever colour backwards: Black



BS mm	AS	A mm
36	20	35

### Recommended safety pins

Art.No.	Type
18545	Pin AS24

### Recommended fittings outlet

34230	Female hose tail AS24/Ø15
34229	Female hose tail AS24/Ø17
34227	Female hose tail AS24/Ø20

More Fittings: see section Fittings, AS24





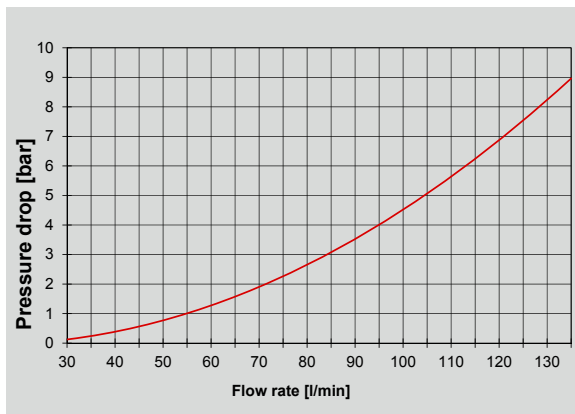
## Mechanical constant pressure 36/AS20

- simple mechanical shut off valve for hoses until 16 mm
- coloured levers for different functions
- optimal designed for our regulator systems
- individual choice of valve alignment
- robust construction
- multi-combinable with the altek modular system

Maximum pressure 12 bar  
 Inlet-ø: 36 mm, tuned to fit the altek modular system  
 Return flow-ø: 24 mm  
 Outlet-ø: AS20  
 Lever colour: red  
 Material: POM, PA, stainless steel: 1.4305, FPM and NBR seals

### Options:

- Additional colours for levers are available on request



Art.No.	Type
21920	Mechanical constant pressure valve 36/AS20

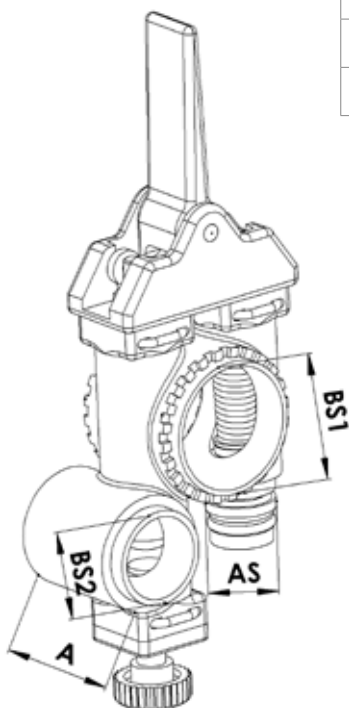
### Recommended safety pins

Art.No.	Type
02752	Pin AS20

### Recommended fittings outlet

34237	Female hose tail AS20/ø12
34236	Female hose tail AS20/ø15
37238	Female hose tail AS20/ø17
More Fittings: see AS Fittings, AS20	

BS 1 mm	BS 2 mm
36	24
AS	A mm
20	35





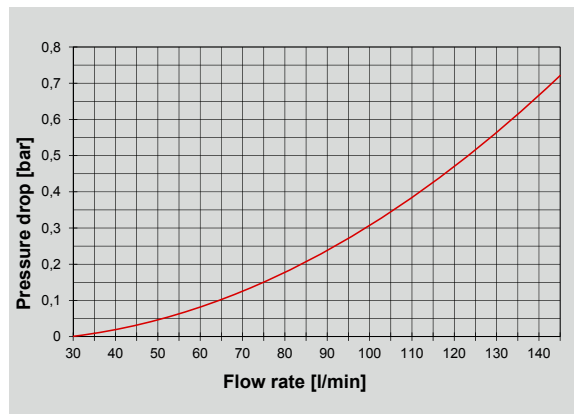
## Mechanical shut off valve 36/ø25 mm

- simple mechanical shut off valve for hoses until 16 mm
- coloured levers for different functions
- optimal designed for our regulator systems
- individual choice of valve alignment
- robust construction
- multi-combinable with the altek modular system

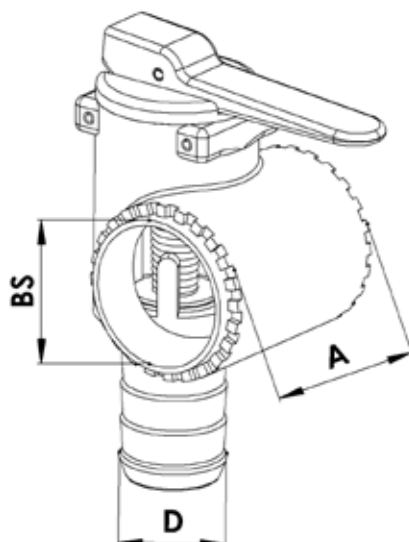
Maximum pressure: 12 bar  
 Inlet-ø: 36 mm, tuned to fit the altek modular system  
 Outlet-ø: 25 mm hose connection  
 Lever colour : red  
 Material: POM, PA, stainless steel: 1.4305, FPM and NBR seals

### Options:

- Additional colours for levers are available on request



Art.No.	Type	Remarks Control lever
39767	Mechanical shut off valve 36/ø25mm	Mechanical shut off valve 36/ø25mm
47740	Mechanical shut off valve 36/ø25mm	Control lever backward-turned



BS mm	AS	A mm
36	25	54



More Fittings: see section Fittings



## Mechanical valves

### Quick-Fit Ventil, 2-way Manual operating

#### Quick-Fit Valve, 2-Way Manual operating

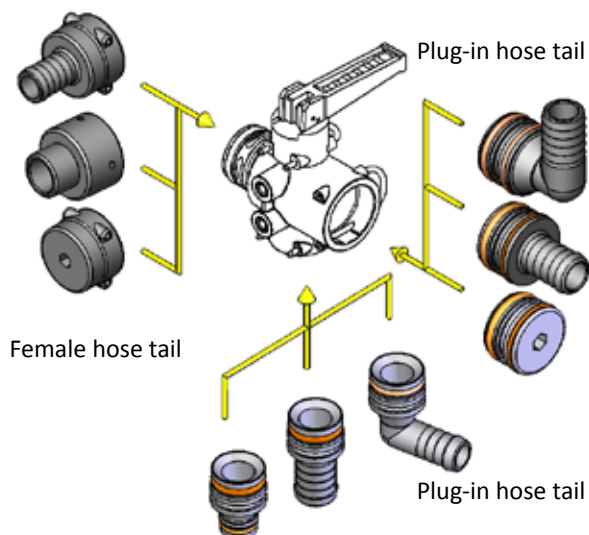
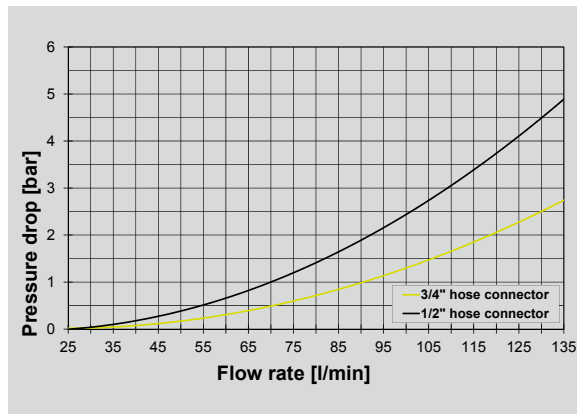
- quick assembly using the altek plug-in system
- large flow rates with low pressure drop
- for boom section hoses up to  $\varnothing 32\text{mm}$
- modular design

Maximum pressure:

12 bar

Material:

POM GF 25, stainless  
steel: 1.4305, FPM and  
NBR seals



#### Recommended Fittings AS24

Art.No.	Type
34230	Female hose tail AS24/ $\varnothing 15$
34229	Female hose tail AS24/ $\varnothing 17$
34227	Female hose tail AS24/ $\varnothing 20$
80349	Female hose tail AS24/ $\varnothing 15/90^\circ$
80350	Female hose tail AS24/ $\varnothing 20/90^\circ$
47094	Female hose tail AS24/AS20 kpl

#### Recommended fittings AS30 with valve seat $120^\circ$

00420	Plug-in hose tail AS30/ $\varnothing 20$ kpl
81119	Plug-in hose tail AS30/ $\varnothing 25$ kpl
01399	Plug-in hose tail AS30/ $\varnothing 33$ kpl
33793	Plug-in hose tail AS30/ $\varnothing 33/90^\circ$ kpl
80378	Plug-in hose tail AS30/AS24 kpl

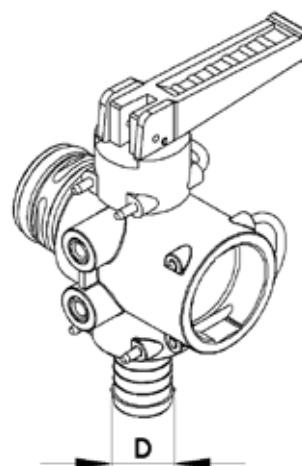
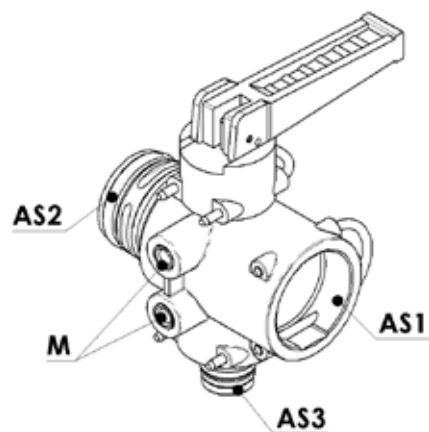
#### Recommended Fittings AS40

04595	Plug-in hose tail AS40/ $\varnothing 25$ kpl
04581	Plug-in hose tail AS40/ $\varnothing 33$ kpl
09184	Plug-in hose tail AS40/ $\varnothing 25/90^\circ$ kpl
80357	Female hose tail AS40/ $\varnothing 25$
34232	Female hose tail AS40/ $\varnothing 33$
47993	Blind cap AS40



## Mechanical valves

### Quick-Fit Ventil, 2-way Manual operating



Art.No.	Type	AS1	AS2	AS3	M	D
80790	Quick-Fit Valve, 2-WAY, AS24, manually	40	40	24	M8	see Fittings
80846	Quick-Fit Valve, 2-WAY, AS30/ø25 manually	40	40	24	M8	see Fittings
80845	Quick-Fit Valve, 2-WAY, AS30/ø33 manually	40	40	24	M8	see Fittings



## Mechanical valves · Bypass

Manifold assemblies		
Picture	Article-No.	Type
	83460	Bypass 4x MAV36/24 red/yellow/green/blue
	83611	Bypass 3x MDV36/24 blue/red/black/green/green
	80715	Bypass 2x MAV36/24 1x MAV36/ø25 1x MDV36/20 v/green h/black
	83162	Bypass 4x MAV36/AS24
	83056	Bypass 2x MAV36/AS24 red/yellow

More Bypass combinations are possible – contact us!



## AS Plug-In Fittings

AS20 • AS24 • AS30 • AS40 • AS50

It contains a wide range of possible combinations of plug-in fittings, e.g. hose tails, tee pieces, cross pieces and tank fittings. The fittings are connected together using a simple safety pin – the quickest method of connecting when assembling a sprayer fluid system.

Our fittings are compatible with the altek Plug-In System components (pressure regulator, ball valves, control valves, etc.). Their outstanding feature is their excellent strength. We use glass-fibre reinforced POM and FPM gaskets (Viton) for sealing.

- **Push-fit with a secure staple fastening**
- **Less production time and costs required in manufacturing**
- **Reduced need to use sealing tape / thread fittings**
- **Allows assembly workers the flexibility to move the fittings when assembled without any chance of breaking the seal**





## AS Plug-In Fittings

Like the altek modular system which has been used successfully since many years, also our plug-in system has proven itself as reliable and resonable system.

The combination of male and female plug in fittings and the simple safety connection with the safety pin is still the fastest possibility for fittings up to 50 mm of the altek Plug in System (AS50) to create a hose connection which can be undone easily at any time. We have decided to go on using this highly efficient system in our products. However, we will also dedicate ourselves to the market requirements and offer adapters for BSP-threats for our products in the future.

### How does the altek Plug-In System function?

The altek Plug-In System consists of male and female fittings which are sealed with an o-ring fitted onto the male AS fitting, which seals once pushed into the corresponding AS Female housing. The two parts are then locked together using a stainless u-shape clip. The Sizes of the AS quick fit system indicates which range of fittings they will connect. Today we have fittings available in Altek system sizes AS20, AS24, AS30, AS40 and AS50.

### Example:

A plug in hose tail AS30/ø32/90° is connected with a female hose tail AS30/ø25. To fix the plug in connection, a safety clip AS30 is needed.

**AS30** = Size of the plug-in system

**32 mm** = diameter of the connected hose line

e.g. a plug-in hose tail AS24/ø19 can be put on a mechanical valve 36/AS24. To fix it, safety clip AS24 has to be used.

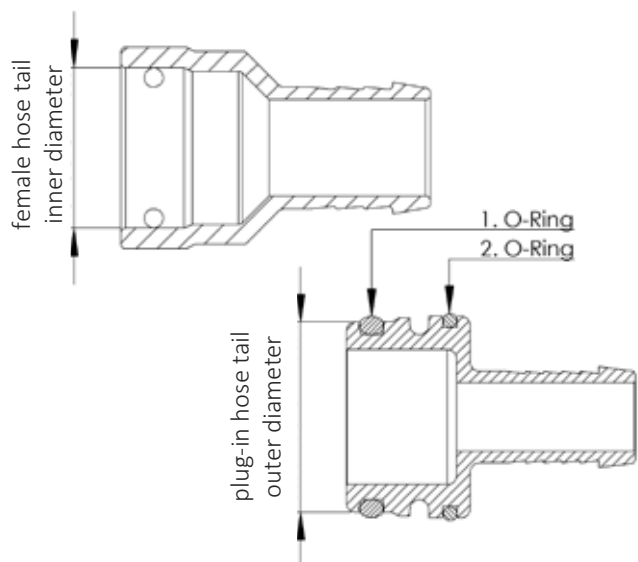


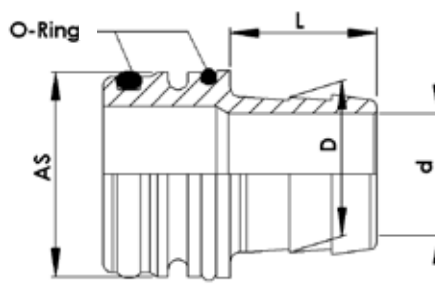
Table to identify the size of the AS plug-in fittings

AS	Plug-in hose tail 1. outer-ø (without O-ring)	female hose tail inner-ø	1. O-ring	2. O-ring	Safety clip standard	Safety clip short
20	17,8	20	14,0 x 2,5 FPM 75		Safety clip AS20	
24	21,9	24	18,0 x 2,5 FPM 75		Safety clip AS24	
30	32	34,2	25,0 x 4,0 FPM 75		Safety clip AS30	Safety Pin AS30 shortened version
40	41,6	44	35,0 x 4,0 FPM 75	38,0 x 3,0 FPM 75	Safety clip AS40	Safety Pin AS40 shortened version
50	47,9	50,3	40,0 x 4,0 FPM 75	42,0 x 3,0 FPM 75	Safety clip AS50	

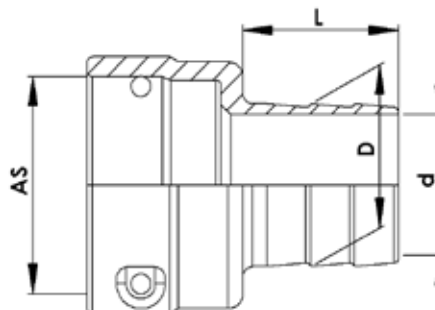


## Plug-In Fittings AS20

Plug-in hose tails AS20 complete with O-rings							Replacement O-rings	
Article-No.	Type	AS	D mm	d mm	L mm	Pressure [bar]	Article-No.	Type
11827	Plug-in hose tail AS20/ø13 cpl	20	12	7	20	20	37618	14,0 x 2,5 FPM 75
00464	Plug-in hose tail AS20/ø15 cpl	20	15	10,3	24	20	37618	14,0 x 2,5 FPM 75
81495	Plug-in hose tail AS20/ø17 cpl	20	17	12	27	20	37618	14,0 x 2,5 FPM 75
34150	Plug-in hose tail AS20/ø20 cpl	20	20	15	32	20	37618	14,0 x 2,5 FPM 75



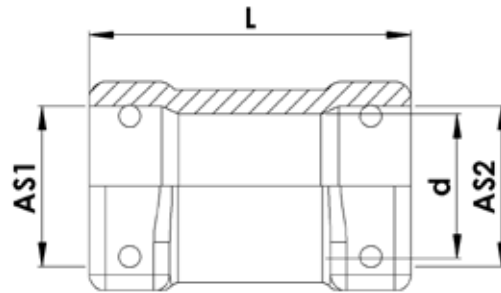
Female hose tails AS20 without safety clips							Safety Pins	
Article-No.	Type	AS	D mm	d mm	L mm	Pressure [bar]	Article-No.	Type
34237	Female hose tail AS20/ø12	20	12	7	20	20	02752	AS20
34236	Female hose tail AS20/ø15	20	15	9,5	24	20	02752	AS20
34238	Female hose tail AS20/ø17	20	17	12	27	20	02752	AS20
80572	Female hose tail AS20/ø25	20	25	18	38	20	02752	AS20



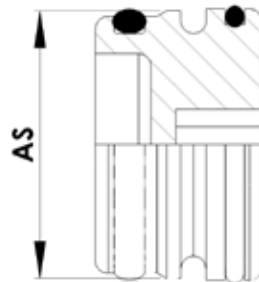
## AS Plug-In Fittings · AS20



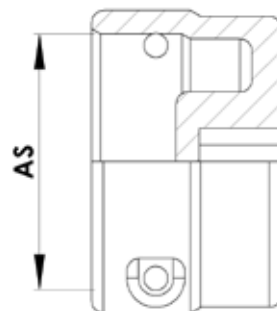
Extension/Reduction female						Safety clip	
Article-No.	Type	AS1	AS2	d mm	L mm	Article-No.	Type
18805	Connector AS20	20	20	17,5	40	21931	AS20



Plug AS20 complete with O-ring				Replacement O-ring	
Article-No.	Type	AS	Pressure [bar]	Article-No.	Type
80728	Dummy plug AS20 cpl	20	20	37618	14,0 x 2,5 FPM 75



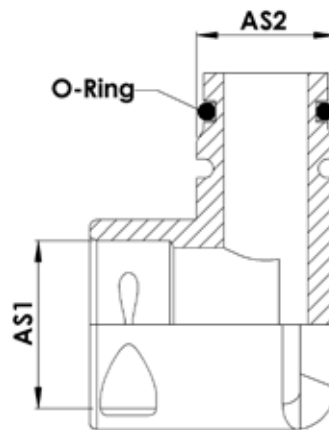
Cap AS20				Safety Pin	
Article-No.	Type	AS	Pressure [bar]	Article-No.	Type
10271	Cap AS20	20	20	02752	AS20





## AS Plug-In Fittings · AS20

Angle reduction AS20 complete with O-ring					Replacement O-ring		Necessary accessories	
Article-No.	Type	AS1	AS2	Pressure bar	Article-No.	Type	Article-No.	Type
47094	Angle reduction AS24/AS20 cpl	24	20	20	37618	14,0 x 2,5 FPM 75	18545	Safety Pin AS24



### altek Safety Pins

Article-No.	Type
02752	Safety Pin AS20
18545	Safety Pin AS24
02632	Safety Pin AS30
83774	Safety Pin AS30 short version
05241	Safety Pin AS40
83875	Safety Pin AS40 short version
17997	Safety Pin AS50

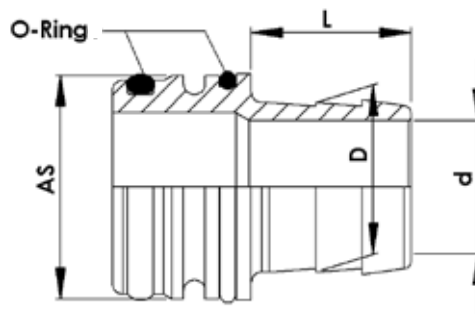




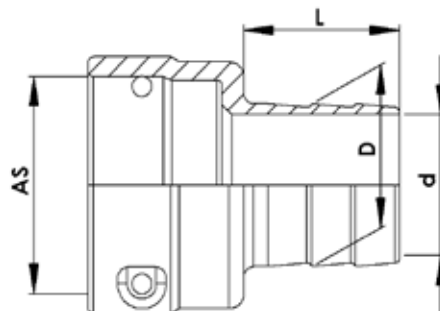


## Plug-In Fittings AS24

Plug-in hose tails AS24 complete with O-rings							Replacement O-rings	
Article-No.	Type	AS	D mm	d mm	L mm	Pressure [bar]	Article-No.	Type
81348	Plug-in hose tail AS24/ø13 cpl	24	13	7	25	20	83069	17,12 x 2,6 FPM 80
80517	Plug-in hose tail AS24/ø15 cpl	24	15	10,3	24	20	83069	17,12 x 2,6 FPM 80
81054	Plug-in hose tail AS24/ø20 cpl	24	20	14	32	20	83069	17,12 x 2,6 FPM 80



Female hose tails AS20 without safety clips							Safety Pins	
Article-No.	Type	AS	D mm	d mm	L mm	Pressure [bar]	Article-No.	Type
34230	Female hose tail AS24/ø15	24	15	10	27	20	18545	AS24
34229	Female hose tail AS24/ø17	24	17	12	27	20	18545	AS24
34227	Female hose tail AS24/ø20	24	20	14	27	20	18545	AS24
47934	Female hose tail AS24/ø25	24	25	20,5	32	20	18545	AS24

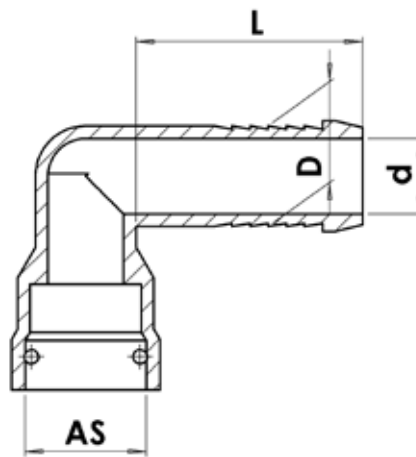




## AS Plug-In Fittings · AS24

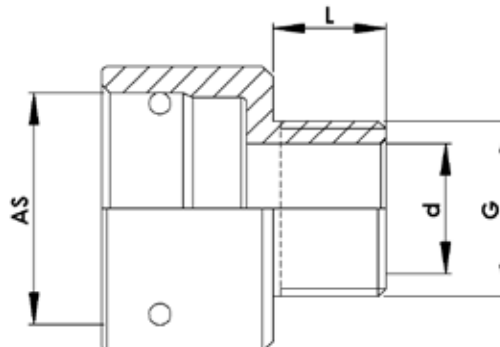
Female hose tails AS24 90° without safety pins

Article-No.	Type	AS	D mm	d mm	L mm	Pressure [bar]	Article-No.	Type
82250	Female hose tail AS24/ø13/90°	24	13	7	34	20	18545	AS24
80349	Female hose tail AS24/ø15/90°	24	15	10	42	20	18545	AS24
80780	Female hose tail AS24/ø16/90°	24	16	12	40	20	18545	AS24
81791	Female hose tail AS24/ø17/90°	24	17	11	46	20	18545	AS24
80350	Female hose tail AS24/ø20/90°	24	20	15	45	20	18545	AS24
80781	Female hose tail AS24/ø22/90°	24	22	17	40	20	18545	AS24



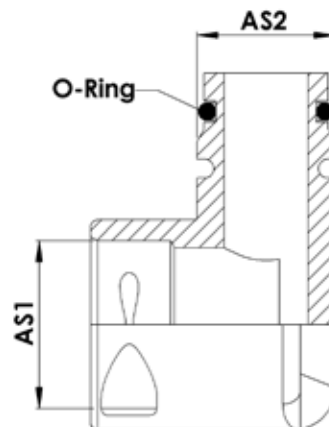
Female hose tails AS24 with thread without safety pins

Article-No.	Type	AS	G	d mm	L mm	Pressure [bar]	Article-No.	Type
83403	Female hose tail AS24/ G½ male	24	G½	14	26	15	05241	AS24

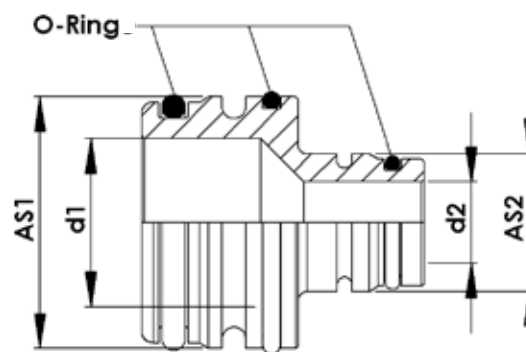




Angle reduction AS24 complete with O-ring					Replacement O-ring		Necessary accessories	
Article-No.	Type	AS1	AS2	Pressure [bar]	Article-No.	Type	Article-No.	Type
47094	Angle reduction AS24/AS20 cpl	24	20	20	37618	14,0 x 2,5 FPM 75	18545	Safety Pin AS24



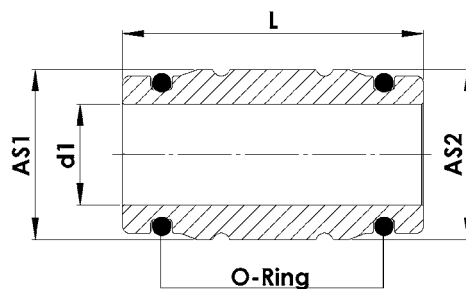
Extension / Reduction AS24 male							Replacement O-rings	
Article-No.	Type	AS1	d1mm	AS2	d2mm	Pressure [bar]	Article-No.	Type
80378	Plug-in hose tail AS30/AS24 cpl with valve seat 120°	30	20	24	14	20	02633	25,0 x 4,0 FPM 75
							83069	17,12 x 2,6 FPM 80
80412	Plug-in hose tail AS40/AS24 cpl	40	29	24	14	20	05243	35,0 x 4,0 FPM 75
							37628	38,0 x 3,0 FPM 75
							83069	17,12 x 2,6 FPM 80



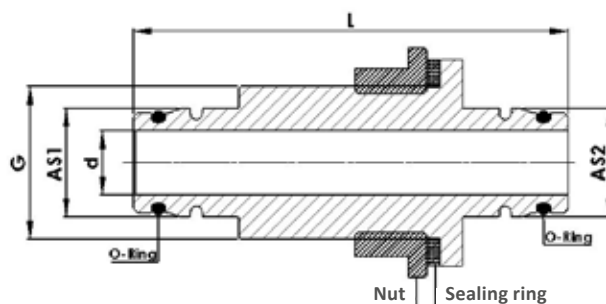


## AS Plug-In Fittings · AS24

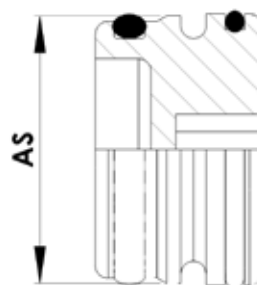
Extension/Reduction AS24 female						Necessary accessories	
Article-No.	Type	AS1	AS2	d mm	L mm	Article-No.	Type
83635	Plug-in hose tail AS24	24	24	14	42	18545	Safety Pin AS24



Tank fitting AS24					
Article-No.	Type	AS1	AS2	d mm	L mm
83845	Tank fitting set (G 1) AS24	24	24	14	95

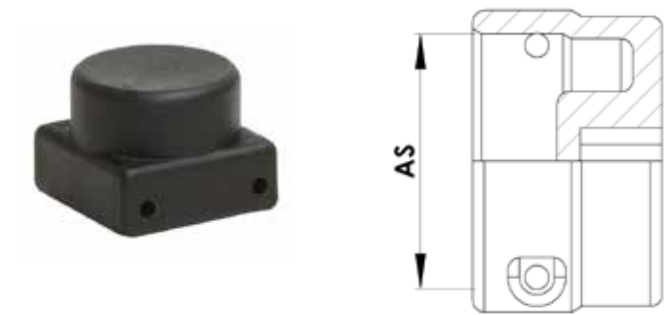


Plug AS24 complete with O-ring				Replacement O-ring	
Article-No.	Type	AS	Pressure [bar]	Article-No.	Type
80376	Dummy plug AS24 cpl	24	20	83069	17,1 x 2,6 FPM 80

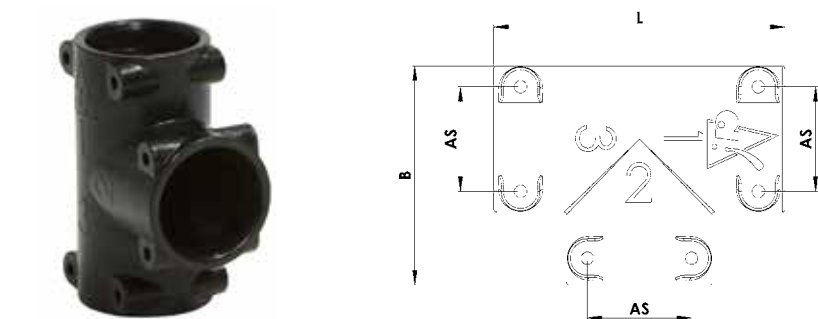




Blind cap AS24 complete with O-ring			
Article-No.	Type	AS	Pressure [bar]
47886	Cap AS24	24	20



T-piece AS24			
Article-No.	Type	AS	Pressure [bar]
83612	T-Piece AS24 female	24	20

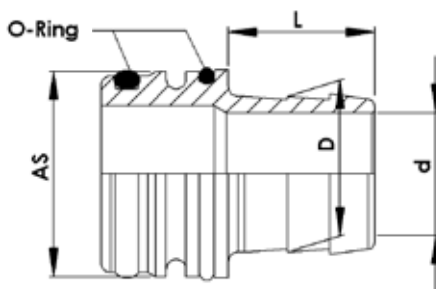


altek Safety Pins	
Article-No.	Type
02752	Safety Pin AS20
18545	Safety Pin AS24
02632	Safety Pin AS30
83774	Safety Pin AS30 short version
05241	Safety Pin AS40
83875	Safety Pin AS40 short version
17997	Safety Pin AS50

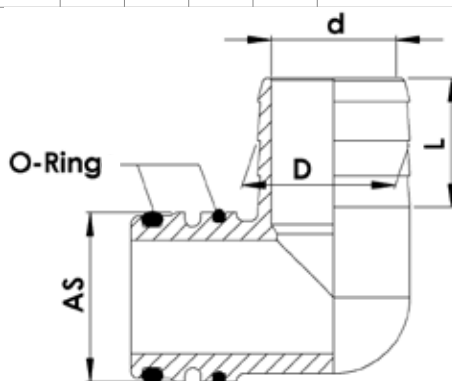


## Plug-In Fittings AS30

Plug-in hose tails AS30 complete with O-rings							Replacement O-rings	
Article-No.	Type	AS	D mm	d mm	L mm	Pressure [bar]	Article-No.	Type
33791	Plug-in hose tail AS30/ø17 cpl	30	17	12	28	20	02633	25,0 x 4,0 FPM 75
00420	Plug-in hose tail AS30/ø20 cpl with valve seat 120°	30	20	15	32	20	02633	25,0 x 4,0 FPM 75
81119	Plug-in hose tail AS30/ø25 cpl with valve seat 120°	30	25	20,5	36	20	02633	25,0 x 4,0 FPM 75
01399	Plug-in hose tail AS30/ø33 cpl with valve seat 120°	30	33	26	36	20	02633	25,0 x 4,0 FPM 75

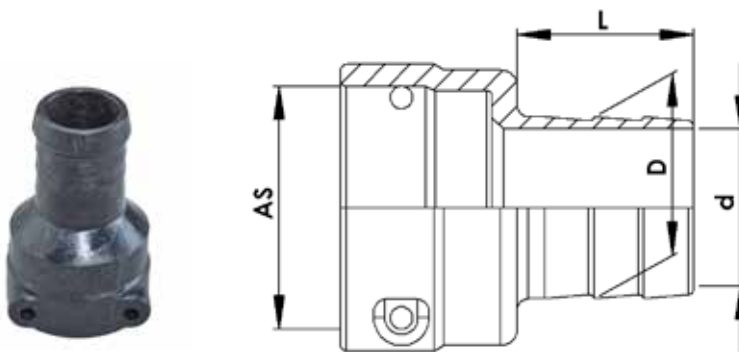


Plug-in hose tails AS30 90° complete with O-rings							Replacement O-rings	
Article-No.	Type	AS	D mm	d mm	L mm	Pressure [bar]	Article-No.	Type
09178	Plug-in hose tail AS30/ø20/90° cpl	30	20	15	31	20	02633	25,0 x 4,0 FPM 75
08337	Plug-in hose tail AS30/ø25/90° cpl with valve seat 120°	30	25	18	29,5	20	02633	25,0 x 4,0 FPM 75
33793	Plug-in hose tail AS30/ø33/90° cpl with valve seat 120°	30	33	25	27,5	20	02633	25,0 x 4,0 FPM 75

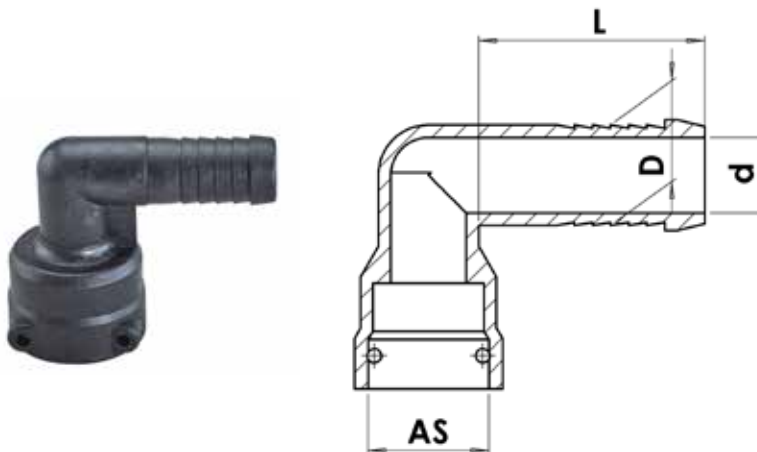




Female hose tails AS30 without safety pins							Safety Pins	
Article-No.	Type	AS	D mm	d mm	L mm	Pressure [bar]	Article-No.	Type
34234	Female hose tail AS30/ø20	30	20	15,5	28	20	02632	AS30
34233	Female hose tail AS30/ø25	30	26	20,5	31	20	02632	AS30



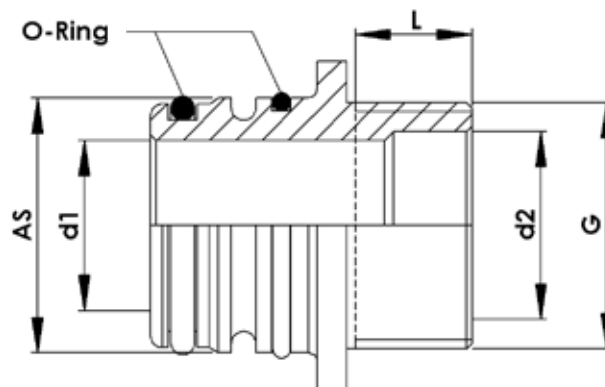
Female hose tail AS30 90° without safety pin							Safety Pin	
Article-No.	Type	AS	D mm	d mm	L mm	Pressure[bar]	Article-No.	Type
83588	Female hose tail AS30/ø20/90°	30	20	14	40	20	02632	AS30



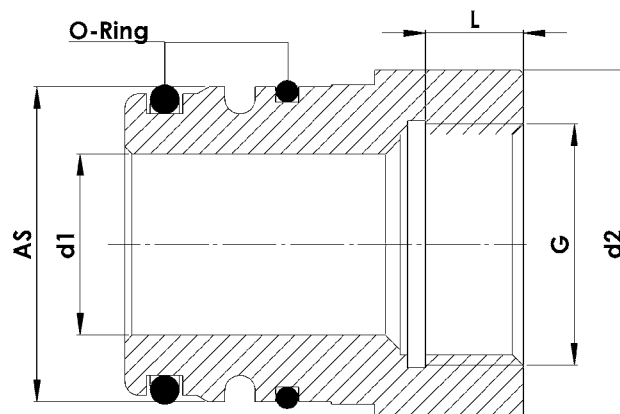


## AS Plug-In Fittings · AS30

Plug-in hose tails AS30 with BSP-thread or NPT-thread complete with O-rings								Replacement O-rings	
Article-No.	Type	AS	G	d1 mm	d2 mm	Lmm	Pressure [bar]	Article-No.	Type
80538	Plug-in hose tail AS30/G1/male cpl	30	G1	20	25	21,5	20	02633	25,0 x 4,0 FPM 75
81136	Plug-in hose tail AS30/G1½/male cpl	30	G1½	20	38	21,5	20	02633	25,0 x 4,0 FPM 75



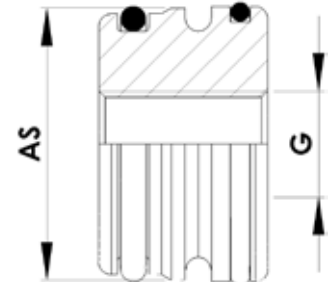
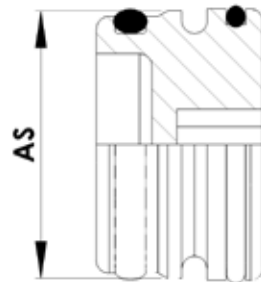
Plug-in hose tails AS30 with BSP-inside-thread complete with O-rings								Replacement O-ring	
Article-No.	Type	AS	G	d1 mm	d2 mm	Lmm	Pressure [bar]	Article-No.	Type
82465	Plug-in hose tail AS30/G1/male cpl	30	G1	20	42	20	20	02633	25,0 x 4,0 FPM 75



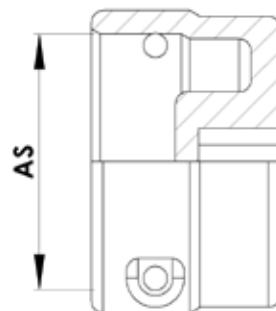




Dummy plugs AS30 complete with O-rings					Replacement O-rings	
Article-No.	Type	AS	G	Pressure [bar]	Article-No.	Type
41108	Dummy plug AS30 cpl	30	–	20	02633	25,0 x 4,0 FPM 75
83614	Dummy plug AS30/G½/female cpl	30	G½	20	02633	25,0 x 4,0 FPM 75



Blind cap AS30 complete with O-ring			
Article-No.	Type	AS	Pressure [bar]
80801	Cap AS30	30	20
83869	G¼	30	20
84229	G¾	30	20

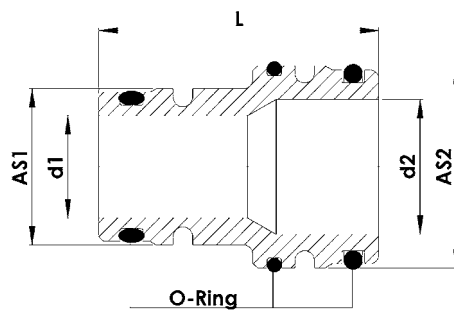




## AS Plug-In Fittings · AS30

### Extension / Reduction AS24 male

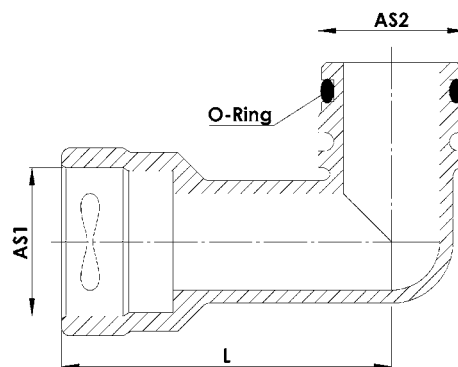
Article-No.	Type	AS1	AS2	d mm	L mm
80378	Adaptor AS30/AS24 cpl with valve seat 120°	30	24	14	46
83636	Plug-in hose tail AS30/AS30 cpl	30	30	22	53
83458	Adaptor AS30/AS40 cpl	30	40	22	60



### Male/female connector AS30 complete with O-rings

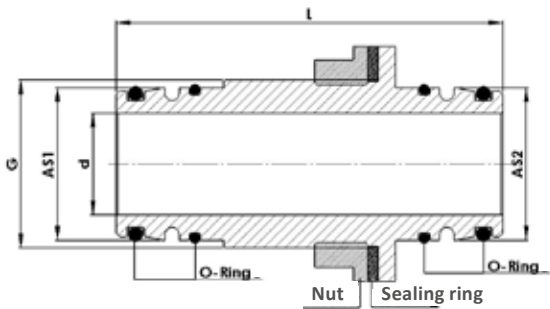
### Replacement O-rings

Article-No.	Type	AS1	AS2	L mm	Pressure [bar]	Article-No.	Type
47098	Male/female connector AS30/90° cpl	30	30	75,5	20	02633	25,0 x 4,0 FPM 75

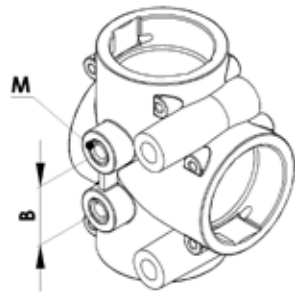
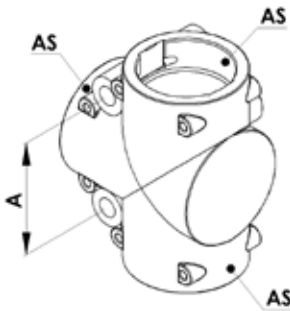




Tank Fitting AS30 with BSP-thread					
Article-No.	Type	AS1	AS1	d mm	L mm
83840	Tank Fitting set (G 1 ¼) AS30	30	30	21	110



T- piece AS30			Safety Pin			
Article-No.	Type	AS	A mm	B mm	standard version	short version
83604	T-piece AS 30	24	13	7	02632	83774

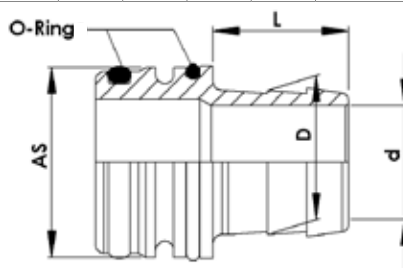


altek Safety Pins	
Article-No.	Type
02752	Safety Pin AS20
18545	Safety Pin AS24
02632	Safety Pin AS30
83774	Safety Pin AS30 short version
05241	Safety Pin AS40
83875	Safety Pin AS40 short version
17997	Safety Pin AS50

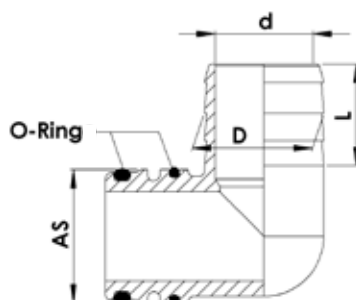


## Plug-In Fittings AS40

Plug-in hose tails AS40 complete with O-rings							Replacement O-rings	
Article-No.	Type	AS	D mm	d mm	L mm	Pressure [bar]	Article-No.	Type
80353	Plug-in hose tail AS40/ø20 cpl	40	20	15	36	20	05243 37628	35,0 x 4,0 FPM 75 38,0 x 3,0 FPM 75
04595	Plug-in hose tail AS40/ø25 cpl	40	25	18	36	20	05243 37628	35,0 x 4,0 FPM 75 38,0 x 3,0 FPM 75
04581	Plug-in hose tail AS40/ø33 cpl	40	33	26	31	20	05243 37628	35,0 x 4,0 FPM 75 38,0 x 3,0 FPM 75
06247	Plug-in hose tail AS40/ø39 cpl	40	39	32	37	15	05243 37628	35,0 x 4,0 FPM 75 38,0 x 3,0 FPM 75
17409	Plug-in hose tail AS40/ø46 cpl	40	46	38	31	5	05243 37628	35,0 x 4,0 FPM 75 38,0 x 3,0 FPM 75

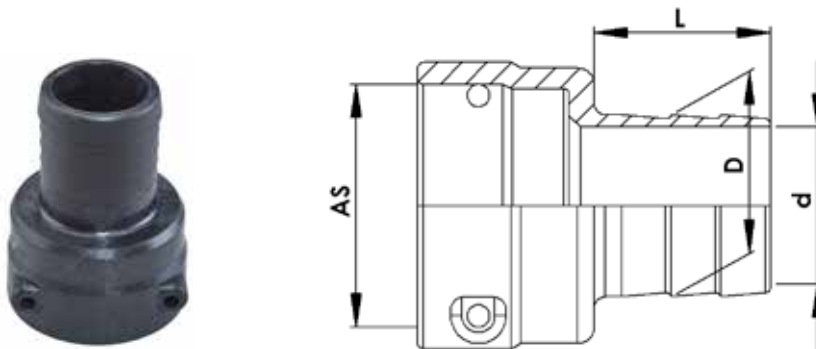


Plug-in hose tails AS40 90° complete with O-rings							Replacement O-rings	
Article-No.	Type	AS	D mm	d mm	L mm	Pressure [bar]	Article-No.	Type
80352	Plug-in hose tail AS40/ø20/90° cpl	40	20	15	28	20	05243 37628	35,0 x 4,0 FPM 75 38,0 x 3,0 FPM 75
09184	Plug-in hose tail AS40/ø25/90° cpl	40	25	18	30	20	05243 37628	35,0 x 4,0 FPM 75 38,0 x 3,0 FPM 75
08874	Plug-in hose tail AS40/ø33/90° cpl	40	33	26	27	20	05243 37628	35,0 x 4,0 FPM 75 38,0 x 3,0 FPM 75
08275	Plug-in hose tail AS40/ø39/90° cpl	40	39	34	27	20	05243 37628	35,0 x 4,0 FPM 75 38,0 x 3,0 FPM 75

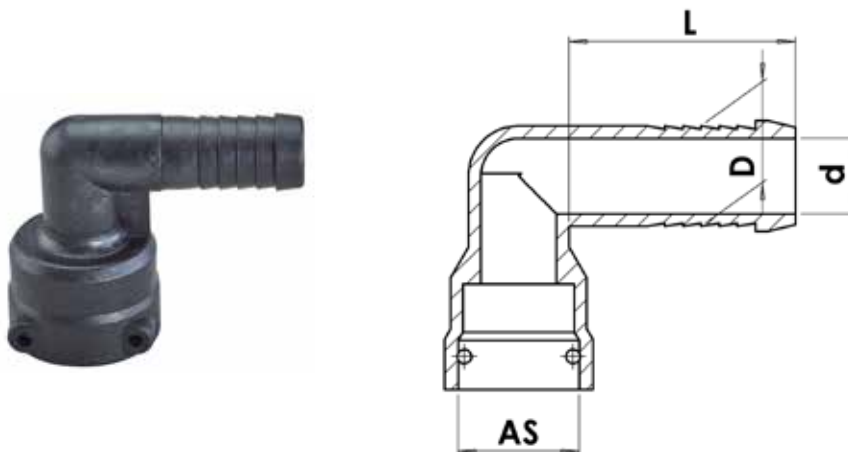




Female hose tails AS40 without safety pins							Safety Pins	
Article-No.	Type	AS	D mm	d mm	L mm	Pressure [bar]	Article-No.	Type
80354	Female hose tail AS40/ø20	40	20	15	35	15	05241	AS40
80357	Female hose tail AS40/ø25	40	25	18	35	15	05241	AS40
34232	Female hose tail AS40/ø33	40	33	28	32	15	05241	AS40
34231	Female hose tail AS40/ø39	40	39	34,5	32	15	05241	AS40
83967	Female hose tail AS40/ø40	40	40	31	38	15	05241	AS40



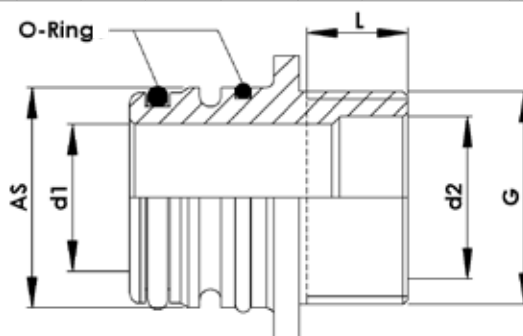
Female hose tails AS30 without safety pins							Safety Pins	
Article-No.	Type	AS	D mm	d mm	L mm	Pressure [bar]	Article-No.	Type
81655	Female hose tail AS40/ø20/90°	40	20	14	41	20	05241	AS40
81654	Female hose tail AS40/ø25/90°	40	25	18	41	20	05241	AS40
81653	Female hose tail AS40/ø33/90°	40	33	26	41	20	05241	AS40
81652	Female hose tail AS40/ø39/90°	40	39	31	41	20	05241	AS40



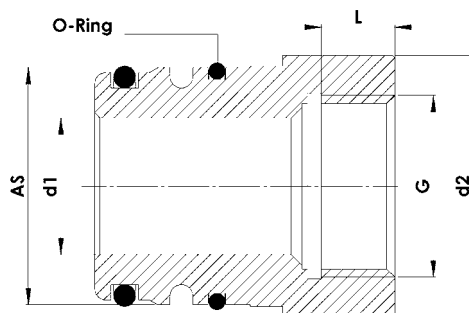


## AS Plug-In Fittings · AS40

Plug-in hose tails AS40 with BSP-thread								Replacement O-rings	
Article-No.	Type	AS	G BSP	d1 mm	d2 mm	Lmm	Pressure [bar]	Article-No.	Type
80361	Plug-in hose tail AS40/G1/male cpl	40	G1	29	25	20	20	05243 37628	35,0 x 4,0 FPM 75 38,0 x 3,0 FPM 75
80398	Plug-in hose tail AS40/G1¼/male cpl	40	G1¼	29	32	20	20	05243 37628	35,0 x 4,0 FPM 75 38,0 x 3,0 FPM 75
81718	Plug-in hose tail AS40/G1½/male cpl	40	G1½	29	38	20	20	05243 37628	35,0 x 4,0 FPM 75 38,0 x 3,0 FPM 75
83073	Plug-in hose tail AS40/G1/male NPT cpl	40	G1	29	20	24	20	05243 37628	35,0 x 4,0 FPM 75 38,0 x 3,0 FPM 75



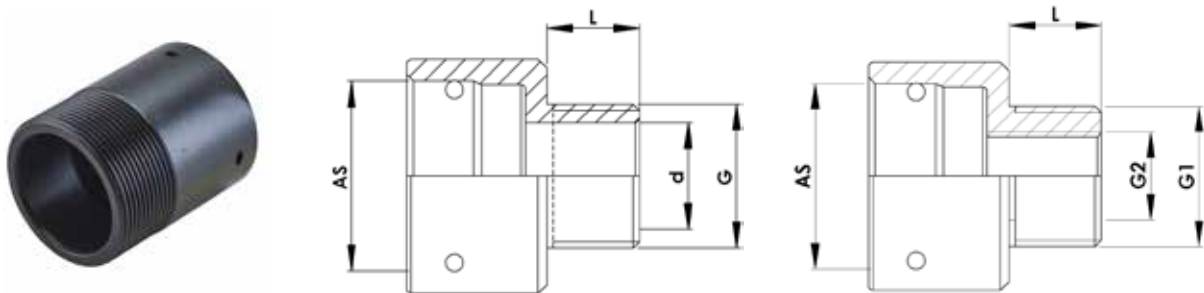
Plug-in hose tails AS40 with BSP-inside-thread complete with O-rings								Replacement O-rings	
Article-No.	Type	AS	G BSP	d1 mm	d2 mm	Lmm	Pressure [bar]	Article-No.	Type
82219	Plug-in hose tail AS40/G1½/ female cpl	40	G1½	29	56	18	20	05243 37628	35,0 x 4,0 FPM 75 38,0 x 3,0 FPM 75
83243	Plug-in hose tail AS40/G1/ female cpl	40	G1	25	48	13,5	20	05243 37628	35,0 x 4,0 FPM 75 38,0 x 3,0 FPM 75
83407	Plug-in hose tail AS40/G2/ female cpl	40	G2	29	67	17,8	20	05243 37628	35,0 x 4,0 FPM 75 38,0 x 3,0 FPM 75
82589	Plug-in hose tail AS40/G1¼/ female cpl	40	G1¼	25	52	13,5	20	05243 37628	35,0 x 4,0 FPM 75 38,0 x 3,0 FPM 75





Plug-in hose tails AS40 with BSP-thread or NPT-thread complete with O-rings

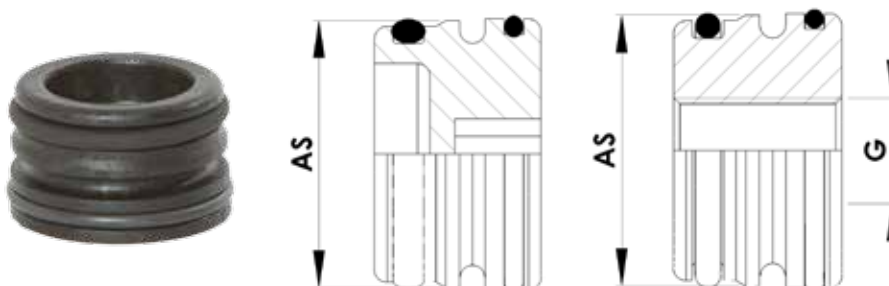
Article-No.	Type	AS	G1 BSP	G2 BSP	d mm	Lmm	Pressure [bar]
80362	Female hose tail AS40/G1/male	40	G1		24,7	21,5	15
81158	Female hose tail AS40/G1½/male	40	G1½		38	24	15
81749	Female hose tail AS40/G1/female	40	G1		30,3	21,5	15
81523	Female hose tail AS40/G1/male/G½ female	40	G1	G2		21,5	15



Plugs AS40 complete with O-rings

Replacement O-rings

Article-No.	Type	AS	G BSP	Pressure [bar]	Article-No.	Type
80333	Dummy plug AS40 cpl	40		20	05243 37628	35,0 x 4,0 FPM 75 38,0 x 3,0 FPM 75
80460	Dummy plug AS40/G¼/female cpl	40	G¼	20	05243 37628	35,0 x 4,0 FPM 75 38,0 x 3,0 FPM 75
80334	Dummy plug AS40/G¼/female cpl with angle connection for hoses D=6, d=4	40	G¼	20	05243 37628	35,0 x 4,0 FPM 75 38,0 x 3,0 FPM 75
81323	Dummy plug AS40/G¾ /female cpl	40	G¾	20	05243 37628	35,0 x 4,0 FPM 75 38,0 x 3,0 FPM 75

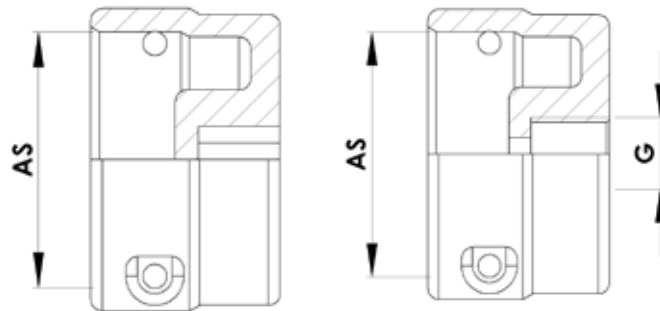




## AS Plug-In Fittings · AS40

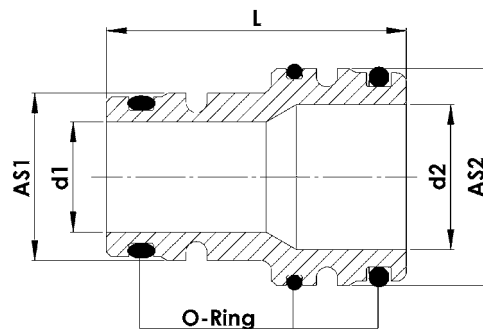
### Blind caps AS40 complete with O-rings

Article-No.	Type	AS	G	Pressure [bar]
47993	Blind cap AS40	40	–	20
80267	Blind cap AS40/G¼/female	40	G¼	20



### Extension / Reduction AS40 male

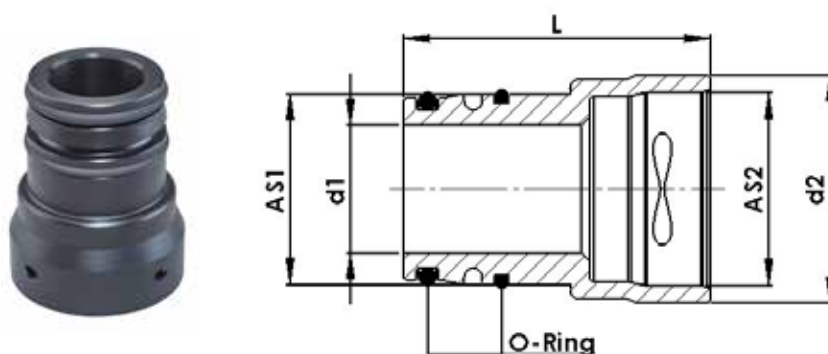
Article-No.	Type	AS1	AS2	d mm	L mm
83458	Adaptor AS30/AS40 cpl	30	40	22	60
80412	Adaptor AS40/AS24 cpl	40	24	14	49
81602	Plug-in hose tail AS40/AS40 cpl	40	40	29	60
82945	Adaptor AS40/AS50 cpl	40	50	29	65



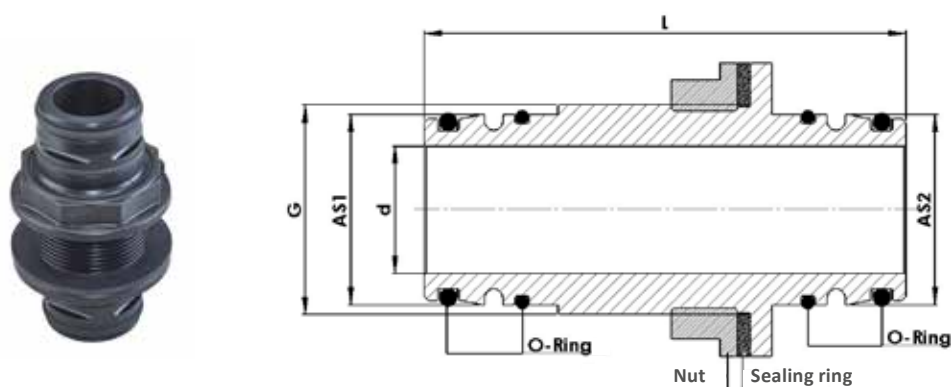




Male/female connector AS40 complete with O-rings							Replacement O-rings	
Article-No.	Type	AS1	AS2	L mm	d1 mm	d2 mm	Article-No.	Type
83708	Male/female connector AS40 male/AS40 female	40	40	70	29	52	05243	35,0 x 4,0 FPM 75
							37628	38,0 x 3,0 FPM 75



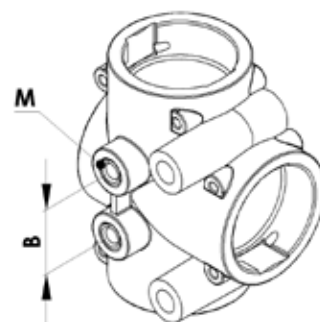
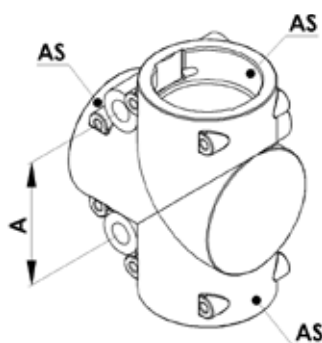
Tank fitting AS40 with BSP-thread						
Article-No.	Type	AS1	AS2	d mm	L mm	G
83725	Tank fitting set (G 1 ½) AS40	40	40	29	110	48





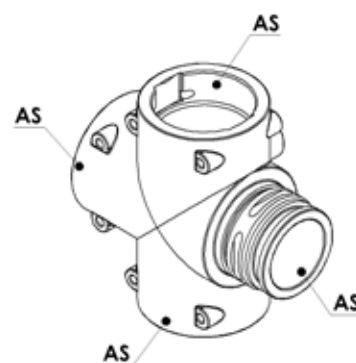
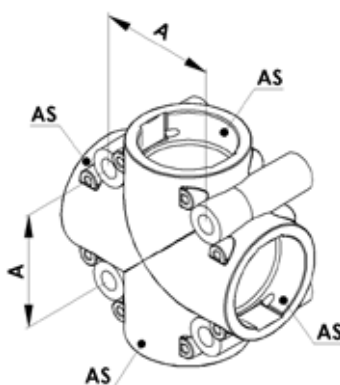
## AS Plug-In Fittings · AS40

T- piece AS40		Safety Pins				
Article-No.	Type	AS	A mm	B mm	standard version	short version
80817	T-piece AS40 mit 2x M8 inserts	40	60	30	05241	83875
80331	T-piece AS40	40	60		05241	83875



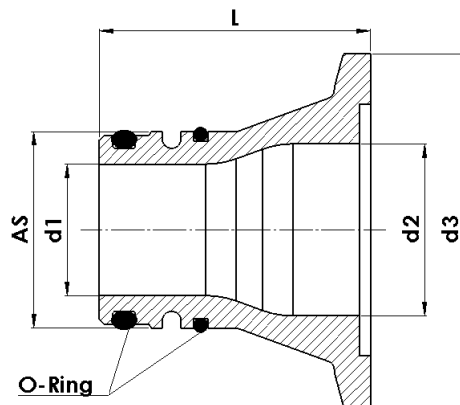
### Cross pieces AS40

Article-No.	Type	AS	A mm	B mm	M
80330	Cross piece 4xAS40	40	60		
80818	Cross piece 4xAS40 with inserts M8	40	60	30	M8
81469	Cage 3xAS40 female, 1xAS40 plug-in with inserts M8 cpl	40		30	M8



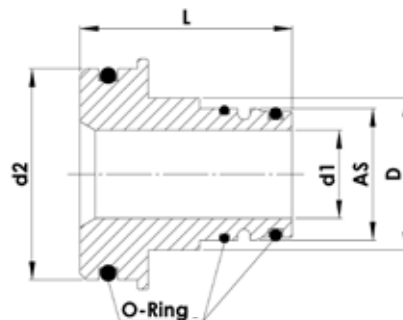


Banjo Fitting AS40 complete with O-rings							Replacement O-rings	
Article-No.	Type	AS	L	d1 mm	d2 mm	d3 mm	Article-No.	Type
82614	Plug-in hose tail AS40/Banjo 2" cpl	40	60	29	38	77,8	05243	35,0 x 4,0 FPM 75
							37628	38,0 x 3,0 FPM 75



Connection AS40 for 5-Way 2" ball valve with altek plug-in System

Article-No.	Type	AS	d1mm	d2mm	dmm	Lmm
83405	Adaptor 2"/Plug-in hose tail AS40 cpl	40	29	69,5	69,5	70





## AS Plug-In Fittings · AS40

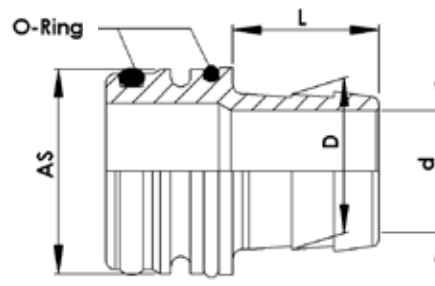


altek Safety Pins	
Article-No.	Type
02752	Safety Pin AS20
18545	Safety Pin AS24
02632	Safety Pin AS30
83774	Safety Pin AS30 short version
05241	Safety Pin AS40
83875	Safety Pin AS40 short version
17997	Safety Pin AS50

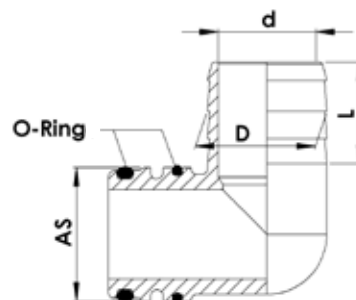


## Plug-In Fittings tails AS50

Plug-in hose tails AS50 complete with O-rings							Replacement O-rings	
Article-No.	Type	AS	D mm	d mm	L mm	Pressure [bar]	Article-No.	Type
22040	Plug-in hose tail AS50/ø39 cpl	50	39	34	33	5	18544 41214	40,0 x 4,0 FPM 75 42,0 x 3,0 FPM 75
17157	Plug-in hose tail AS50/ø46 cpl	50	46	38	33	5	18544 41214	40,0 x 4,0 FPM 75 42,0 x 3,0 FPM 75
80464	Plug-in hose tail AS50/ø50 cpl	50	50	42	38	5	18544 41214	40,0 x 4,0 FPM 75 42,0 x 3,0 FPM 75
83673	Plug-in hose tail AS50/ø63 cpl	50	63	54	59	5	18544 41214	40,0 x 4,0 FPM 75 42,0 x 3,0 FPM 75



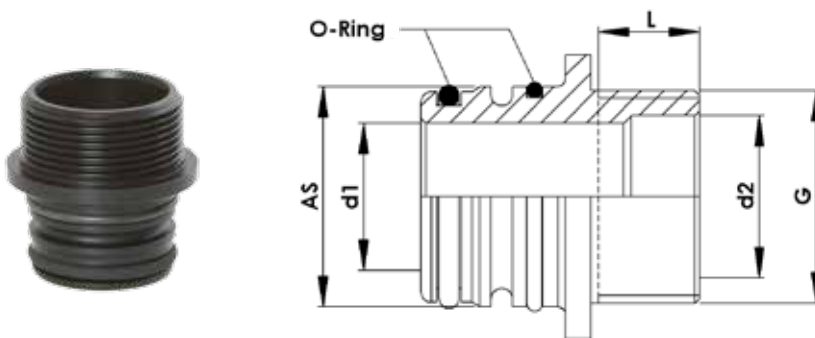
Plug-in hose tails AS50 90° complete with O-rings							Replacement O-rings	
Article-No.	Type	AS	D mm	d mm	L mm	Pressure [bar]	Article-No.	Type
24891	Plug-in hose tail AS50/ø39/90° cpl	50	39	34	27	5	18544 41214	40,0 x 4,0 FPM 75 42,0 x 3,0 FPM 75
17330	Plug-in hose tail AS50/ø46/90° cpl	50	46	38	27	5	18544 41214	40,0 x 4,0 FPM 75 42,0 x 3,0 FPM 75
82472	Plug-in hose tail AS50/ø50/90° cpl	50	50	42	33	5	18544 41214	40,0 x 4,0 FPM 75 42,0 x 3,0 FPM 75



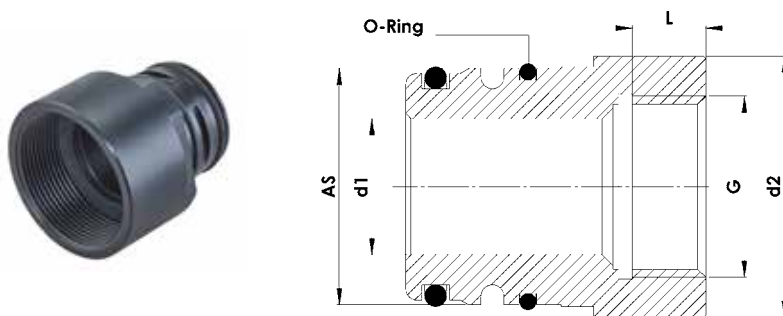


## Plug-in hose tails with BSP-thread and NPT-thread

Plug-in hose tails AS50 with BSP-thread or NTP-thread								Replacement O-rings	
Article-No.	Type	AS	G	d1	d2	L	Pressure [bar]	Article-No.	Type
82993	Plug-in hose tail AS50 G1½ male cpl	50	G1½	35	37,5	28	5	18544	40,0 x 4,0 FPM 75
								41214	42,0 x 3,0 FPM 75
82944	Plug-in hose tail AS50 G2 cpl	50	G2	35	47	28	5	18544	40,0 x 4,0 FPM 75
								41214	42,0 x 3,0 FPM 75



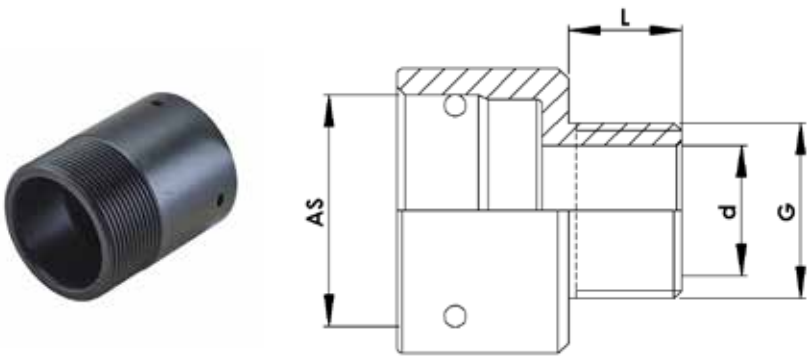
Plug-in hose tails AS50 with BSP-inside-thread								Replacement O-rings	
Article-No.	Type	AS	G	d1	d2	L	Pressure [bar]	Article-No.	Type
83310	Plug-in hose tail AS50 G1½ female cpl	50	G1½	35	56	27	20	18544	40,0 x 4,0 FPM 75
								41214	42,0 x 3,0 FPM 75
83287	Plug-in hose tail AS50 G2 female cpl	50	G2	35	68	24	20	18544	40,0 x 4,0 FPM 75
								41214	42,0 x 3,0 FPM 75
83684	Plug-in hose tail AS50 G2½ female cpl	50	G2½	35	83	24	20	18544	40,0 x 4,0 FPM 75
								41214	42,0 x 3,0 FPM 75





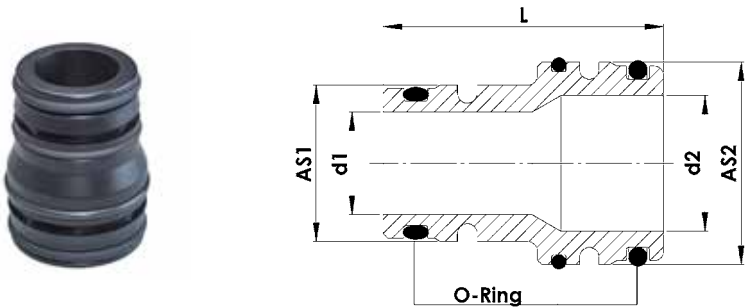
Female hose tails with thread

Female hose tails AS50 with BSP thread, without safety pins						Safety Pin	
Article-No.	Type	AS	G	L mm	Pressure [bar]	Article-No.	Type
82960	Female hose tail AS50 G2 male	50	G2	30	20	17997	standard



Extension/Reduction male

Extension/Reduction AS50 male							Replacement O-rings	
Article-No.	Type	AS1	d1 mm	AS2	d2 mm	Pressure [bar]	Article-No.	Type
82945	Plug-in hose tail AS50/AS40 cpl	50	35	40	29	20	05243	35,0 x 4,0 FPM 75
							37628	38,0 x 3,0 FPM 75
							41214	42,0 x 3,0 FPM 75
							18544	40,0 x 4,0 FPM 75
83637	Plug-in hose tail AS50/AS50 cpl	50	38	50	38	20	41214	42,0 x 3,0 FPM 75
							18544	40,0 x 4,0 FPM 75

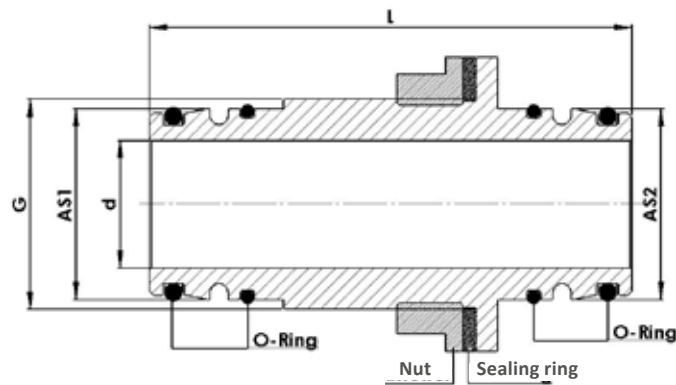




## AS Plug-In Fittings · AS50

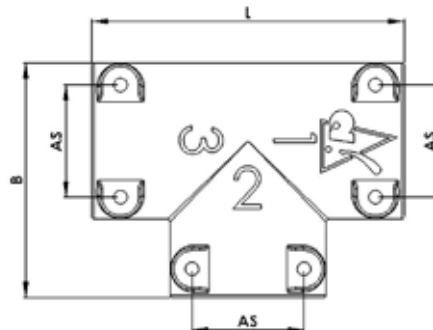
### Tank fitting AS50 with BSP-thread

Article-No.	Type	AS1	AS2	d1 mm	d2 mm	L
83726	Tank Fitting Set G1½ AS40/AS50	40	50	29	35	110
83729	Tank Fitting Set G2 AS40/AS50	50	50	35	35	116



## T-pieces

T-pieces AS50		Safety Pin			
Article-No.	Type	AS	B mm	L mm	Article-No.
83620	T-piece AS50	50	88	116	17997

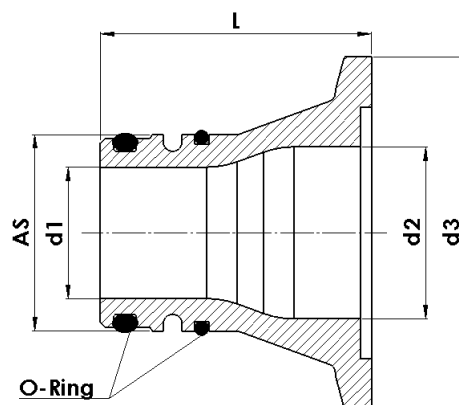






## Banjo Fitting

Banjo Fitting AS50 complete with O-rings							Replacement O-rings	
Article-No.	Type	AS	L	d1 mm	d2 mm	d3 mm	Article-No.	Type
83131	Plug-in hose tail AS50/Banjo 2 cpl Full Port	50	60	35	50,8	83	18544 41214	40,0 x 4,0 FPM 75 42,0 x 3,0 FPM 75
82887	Plug-in hose tail AS50/Banjo 2 cpl	50	60	35	38	78	18544 41214	40,0 x 4,0 FPM 75 42,0 x 3,0 FPM 75



## Connector for ball valve 5-way 2" with AS plug-in system

Article-No.	Type	AS	d1 mm	d2 mm	D mm	Lmm
83697	Connector 2" / plug-in hose tail AS50 cpl	50	31	69,5	50	70

