



PRODUCT CATALOGUE



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Version 2

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WITH IBK TO SUSTAINABLE SUCCESS



Made by IBK

Our family-operated IBK team can draw on the experience in construction and manufacturing of nearly 70 years. In all the time we always have integrated newest technologies. The passion for spray systems, complete painting systems and components for user-friendly surface coating is realized from

our specialists every day. From our principal office in Sprockhövel, Germany, we supervise our international network of business partners and develop optimized customer solutions in close contact with our partners. To achieve this goal, we demand highest standards of ourself, our products and our services.

The IBK customer promise and the advantages for you:



Flexibility

Our product portfolio is based on a complete modular system, in which individual custom requirements can be implemented easily. Every IBK air driven motor can be combined with every IBK hydraulic section - this offers over 70 combinations. Even if your production requirements are changing, only the

motor or the hydraulic part can be changed without the need to renew the complete piston pump or spray system. Another advantage is that all piston pumps can be modified from a stationary wall mounting to a mobile system on a trolley.

Elevators for all containers up to 1000l (IBC) in combination with suitable agitators offer much more individual possibilities.



INGENIEUR BÜRO KÖTTER GMBH



Sustainability

Elaborated constructions, optimized manufacturing and continuous advancement lead to economically and resource-saving production of all of our components. We can provide highest quality standards and longlife usability with sturdy and perfectly selected materials in all IBK products. Our goal is a long-term business relation with customers and partners, which can grow with time. The IBK quality standard is confirmed by our certification of Bureau Veritas.



Ability to react

A sustained production is the base for longdated competitiveness. Our optimized storage system for components and spare parts enables shortest delivery times. Normally spare parts are delivered on the day of ordering to our business partner or directly to the end customer.



Reliability

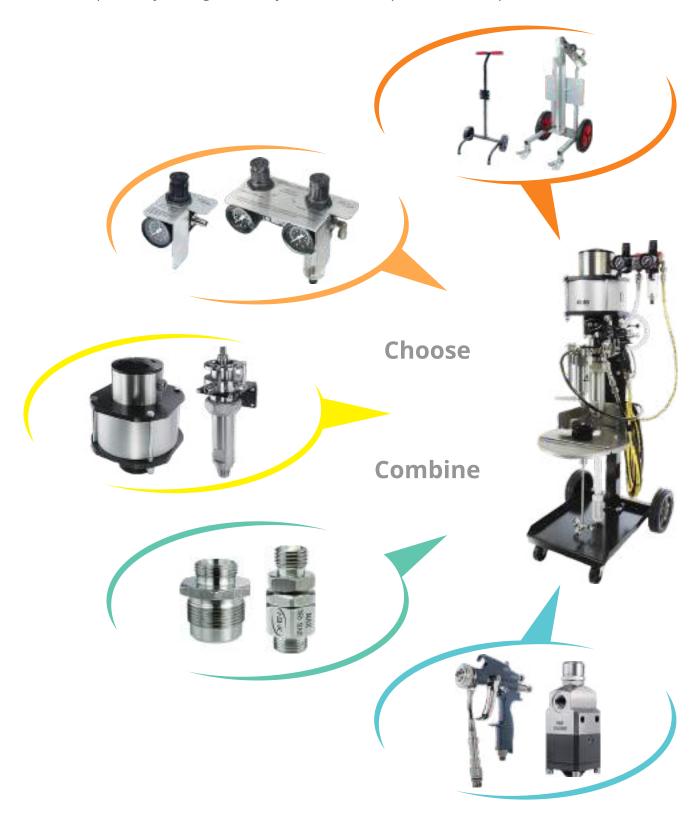
A fair and collaborative business relation is a key feature of our philosophy. We rely on the highest transparency and consistant tracebility of all processes.

We are looking ahead! Therefore we are in close communication with our worldwide partners and customers to optimize our products and services continuously.

MODULAR SYSTEMS



Our modular systems allow you to build cost-efficent system solutions, which are perfectly configured for your individual production requirements.





With the IBK modular systems your spraying equipment can be easily adapted to future requests in manufacturing - without changing everything.







With our modular systems we also go one step further on piston pumps. Air driven motors and hydraulic sections can be combined flexibly. This offers various possibilities of system expansion and conversion at any time.





Perfection starts with design. Carefully selected materials and absolutely no compromises in manufacturing - that is the IBK high-end standard. A permanent stock of spare parts minimizes service- and repair times.







Piston pumps							
Туре	Hydrau	ılic section	Air dri	ven motor	Weight	ltem no.	Price
i-Q	Description	Pressure [bar] [#]	Description	Consump. [L/DS]	[kg]		
30-20	P20	240	D80	4,6	12,2	4103020	
40-20	P20	320	D100	7,4	12,7	4104020	
75-20	P20	450**	D125	11,7	13,7	4107520	
20-35	P35	160	D80	4,6	12,0	4102035	
30-35	P35	240	D100	7,4	12,5	4103035	
40-35	P35	320	D125	11,7	13,5	4104035	
65-35	P35	390	D160	19,4	15,0	4106535	
12-50	P50	96	D80	4,6	13,6	4101250	
20-50	P50	160	D100	7,4	14,1	4102050	
30-50	P50	240	D125	11,7	15,1	4103050	
45-50	P50	360	D160	19,4	16,6	4104550	
75-50	P50	450**	D200	30,5	18,9	4107550	
8-80	P80	64	D80	4,6	14,9	4100880	
12-80	P80	96	D100	7,4	15,4	4101280	
20-80	P80	160	D125	11,7	16,4	4102080	on request
30-80	P80	240	D160	19,4	17,9	4103080	
45-80	P80V	360	D200	30,5	21,2	4104580	
75-80	P80SV	450**	D250	48,0	38,3	4107580	
5-110	P110	40	D80	4,6	15,6	4105110	
8-110	P110	64	D100	7,4	16,1	4108110	
12-110	P110	96	D125	11,7	17,1	4112110	
20-110	P110	160	D160	19,4	18,6	4120110	
33-110	P110	264	D200	30,5	20,9	4133110	
54-110	P110SV	432	D250	48,0	39,7	4154110	
80-110	P110SV	480**	D320	77,0	47,7	4180110	
6-160	P160	48	D80L	9,2	18,0	4106160	
10-160	P160	80	D100L	14,8	18,5	4110160	
18-160	P160	144	D125L	23,4	19,9	4118160	
30-160	P160	240	D160L	38,8	21,3	4130160	
45-160	P160V	360	D200L	61,0	25,5	4145160	
75-160	P160SV	450**	D250LS	96,0	44,4	4175160	
	# Efficien	cy depends on mate	erial, ** Explan	ations and technic	cal facts on	page 12	



						Pisto	n pumps
Туре	Hydrau	ılic section	Air dri	ven motor	Weight	Item no.	Price
i-Q	Description	Pressure [bar] [#]	Description	Consump. [L/DS]	[kg]		
4-220	P220	32	D80L	9,2	19,0	4104220	
6-220	P220	48	D100L	14,8	19,5	4106220	
12-220	P220	96	D125L	23,4	20,9	4112220	
20-220	P220	160	D160L	38,8	22,3	4120220	
33-220	P220	264	D200L	61,0	24,9	4133220	
54-220	P220SV	432**	D250LS	96,0	45,9	4154220	
80-220	P220SV	480**	D320LS	154,0	54,5	4180220	
2-320	P320S	16	D80LS	9,2	38,2	4102320	
5-320	P320S	40	D100LS	14,8	38,7	4105320	
10-320	P320S	80	D125LS	23,4	40,1	4110320	
15-320	P320S	120	D160LS	38,8	41,4	4115320	
25-320	P320S	200	D200LS	61,0	44,1	4125320	on request
38-320	P320	304	D250L	96,0	60,0	4138320	·
63-320	P320	378**	D320L	154,0	68,6	4163320	
3-440	P440S	24	D100LS	14,8	38,1	4103440	
6-440	P440S	48	D125LS	23,4	39,5	4106440	
10-440	P440S	80	D160LS	38,8	40,9	4110440	
18-440	P440S	144	D200LS	61,0	43,5	4118440	
28-440	P440	224	D250L	96,0	59,4	4128440	
45-440	P440	360	D320L	154,0	68,0	4145440	
3-640	P640S	24	D125LS	23,4	49,9	4103640	
6-640	P640S	48	D160LS	38,8	51,3	4106640	
8-640	P640S	64	D200LS	61,0	53,9	4108640	
15-640	P640	120	D250L	96,0	69,8	4115640	
30-640	P640	240	D320L	154,0	78,4	4130640	
	# Efficien	cy depends on mat	erial, ** Explan	ations and technic	al facts on	page 12	



Advices for piston pumps

Product advantages:

All of our piston pumps are conform to strict industry standards and all hydraulic sections are made from high-grade stainless steel. Longlife and robust constructions guarantee minimal service effort. With our modular system you can mostly combine all hydraulic sections with all of our air driven motors. This ensures the flexibility to change only the motor or the hydraulic section, if your manufacturing requirements are changing. With optional material selection and special surface processing, IBK piston pumps can be used within the food and pharmaceutical industry.

- The material output is adjustable (45°-steps) for flexible positioning
- The lubricant chamber can be filled variably
- The lubricant inspection glass shows the fluid level and condition of the lubricant
- With optional shroud with G2 connection an air gate to emmision-free areas is possible
- All piston pumps are equipped with a secure valve and set to 8 bar, **6 bar or on customer request

Compressed air connection:

- Air driven motors D80 D200L = G3/8i
- Air driven motors D250 D320L = G1i

Material input:

- Hydraulic sections P20 P220 = M36x2a IK60°
- Hydraulic sections P320 P640 = G1¼i or on request M36x2a IK60°

Material output:

- Hydraulic sections P20 P640 = M22x1,5i with adjustable double connector: M16x1,5a IK60° or G3/8a IK60°
- Hydraulic sections P320 P640 optional adapted to G3/4i
- Air driven motors D80 D320 = Stroke 64mm
- Air driven motors D80L D320L = Stroke 128mm
- Air driven motors D125LS D320LS = changed adapting (air driven motor hydraulic section)
- Hydraulic sections P20 P110 = Stroke 64mm
- Hydraulic sections P160 P640 = Stroke 128mm
- Hydraulic sections P80S P640S = changed adapting (air driven motor hydraulic section)

With the additional "Spray-Pack" (SP) the air driven motors D80 - D200 and the hydraulic sections P20 - P110 are working within several combinations. The additional "V" marks the enhanced version, made for extreme conditions.

Delivery scope:

• Piston pump, wall bracket, secure valve, 250 ml lubricant, manual, parts list, sectional drawing and the certificate of conformity (COC)

Table legend:

- Type = Designation of transmission and conveying capacity per double stroke
- i = Ratio of the effective piston surface (air driven motor : hydraulic section)
- Q = Conveying capacity, cm³ per double stroke
- bar = Feed pressure max. on 8 bar or **6 bar working pressure on the air driven motor
- L/DS = Consumption of the air driven motor on 6 bar (litre per double stroke)



REGULATORS MANOMETERS





Air regulators			
(40)	ltem	Item no.1	Price
	Air regulator for airless control range 0-10 bar - with manometer (bar, psi) - 7,2 plug - G3/80 Air regulator for airless control range 0-10 bar - with manometer (bar, psi) - incl. safety plate with safety instruction -	3500801 s	
	7,2 plug - G3/80 Safety plate for air regulator (no fig.) with safety instruction	3500828 s 0004907 s	
	Air regulator for airless control range 0-12 bar - with manometer (bar, psi) - G1i - G1i	3500809 s	on.
	Twin air regulator for AirCombi control range 0-10 bar - 2 manometers (bar/psi) - incl. water seperator - 7,2 plug - G3/80 - G1/40 IC60°	3500802 s	on request
	Twin air regulator for AirCombi control range 0-10 bar - 2 manometers (bar/psi) - incl. water seperator - incl. safety plate with safety instructions - 7,2 plug - G3/80 - G1/40 IC60°	3500829 s	
Achtung / Attention Luttregler	Air-Stop safety valve PN10 - 2x G1/2i - reset control valve avoids to run dry - manual adjustable (no fig.)	1028004 s	
Air Regulator Listinator / Airmotor Platale / Spray-gun	Safety plate for twin air regulator with safety instructions	0004908 s	
- Aslatins des Lutimotors durch languame Druckarhöhung! - Inclease pressure slowly to start the Akmotor!	Other versions on request		



			Fluid regulators
ltem	ltem no.1	Price	
Low pressure regulator PN 20 - control range 0-10 bar - mechanical - stainless steel - In G3/80 IC60° - Out G3/80 IC60° - G1/4i for manometer • with manometer • with manometer - HM seat • without manometer • without manometer - HM seat	6000010 s 6000018 s 6000011 s 6000017 s		
Low pressure regulator PN 20 - control range 0-10 bar - pneumatic - stainless steel - In G3/80 IC60° - Out G3/80 IC60° - G1/4i for manometer • with manometer • with manometer - HM seat • without manometer • without manometer - HM seat	6000012 s 6000019 s 6000013 s 6000015 s		
Fluid pressure regulator PN250 - stainless steel - In M16x1,5i - Out M16x1,5o IC60° - M16x1,5i for manometer • control range 10-70 bar • control range 70-140 bar • control range 110-250 bar	3500826 3500806 3500816	on request	
Fluid pressure regulator PN250 - stainless steel - In M16x1,5i - Out M16x1,5o IC60° - G1/2 for membrane manometer • control range 10-70 bar • control range 70-140 bar • control range 110-250 bar	3500832 3500833 3500818		
Fluid back pressure regulator PN250 - stainless steel - In M16x1,5i - Out M16x1,5i - M16x1,5i for manometer • control range 10-70 bar • control range 70-140 bar • control range 110-250 bar Other versions on request	3500827 3500807 3500817		



Manometers		
ltem	Item no.1	Price
Manometer • PN 0 - 12bar - Ø 50 - G1/8o back - plastic - for air- and double air regulator • PN 0 up to -1bar - Ø 63 - G1/4o bottom - for vacuum measuring	2700810 s 2700806 s	
Manometer - stainless steel • PN 0 - 10bar - Ø 63 - G1/8 bottom • PN 0 - 250bar - Ø 63 - G1/4 bottom - GLY	2700811 s 2700804 s	
Manometer with membrane - stainless steel • PN 0 - 250bar - Ø 63 - G1/2 bottom - GLY • PN 0 - 400bar - Ø 63 - G1/2 bottom - GLY	2700817 s 2700818 s	
Manometer combination complete - stainless steel • PN 0 - 250bar - SN M16x1,5o IC60° - M16x1,5 SC - GLY - incl. manometer 2700804	2700801 s	on request
Manometer combination for vacuum measuring complete • PN 0 up to -1bar - SN M36x2 SC60° - incl. manometer 2700806 - for proofing hydraulic sections	2700805 s	
Manometer mounting complete - incl. sealing ring - stainless steel • G3/8o IC60° - G1/4i Optional: Manometer (Item no. 2700804)	1007025	
Other versions on request		





TROLLEYS • BRACKETS





Trolleys • Brackets			
-	ltem	ltem no.¹	Price
7	Bracket "Light version" epoxy-enhanced - for piston pumps with hydraulic sections P20 up to P50	2005023 s	
	Trolley "Standard" steel - epoxy-enhanced - for piston pumps with hydraulic sections P20 up to P220 and all Spray-Pack versions	2005018 s	
	Trolley "Standard" steel - epoxy-enhanced - for double membrane pumps - with height-adjustable mounting plate	2005052 s	on request
	Trolley "Type 630" steel - epoxy-enhanced - for all piston pumps and other accessories Trolley "Type 630" steel - epoxy-enhanced -	2005021 s	
6	for all piston pumps and other accessories - with lockable steering rollers (page 20)	2005060 s	
	Other versions on request		



			Elevators
ltem	Item no.1	Price	T
Stand complete for agitators - height-adjustable - 10kg - 700 stroke - 30L container on base plate	2005903 s		
Manual elevator - stationary - 25kg - 480 stroke - on base plate (no fig.)	2005926 s		
Pneumatic elevator - stationary - 50kg - 425 stroke - on base plate (no fig.)	2005927 s		T
Manual elevator - stationary - steel - epoxy-enhanced - 25kg - 480 stroke	2005020 s		
Manual elevator - mobile - steel - epoxy-enhanced - 25kg - 480 stroke - 30L container	2005016 s	on request	1
Pneumatic elevator - stationary - steel - epoxy-enhanced - 50kg - 425 stroke Pneumatic elevator - mobile - steel - epoxy-enhanced -	2005802 s		
50kg - 425 stroke - 30L container	2005801 s		/ 集)
 Options: Mounting plate - container lid and piston pumps with hydraulic sec. P20 bis P110 piston pumps with hydraulic sec. P160 bis P220 Container lid - foldable - Ø 350 - 80 - Ø 55 - Ø 28,5 - G3/8i - mounting - universal hole pattern (p. 44) Safety control (elevator / agitator) Container centering - manual / pneumatic elevator 25/50kg - 30L container - adjustable Rotary plate - 90° snap-in - for all stationary elevators 25/50kg (no fig.) Piston pumps (p. 10-11) Agitators (p. 33-36) / Mountings (p. 43) 	3141820 s 3141821 s 0051290 s 2005892 s 2005965 s 2005992 s		



Elevators			
	ltem	Item no.1	Price
*	Pneumatic elevator - stationary - aluminium - 100kg • 550 stroke - 30L container • 950 stroke - 200L container and IBC-Container Options: • Base plate with container centering - 200L • Wall bracket top • Wall bracket bottom • Safety control without agitator • Safety control with agitator • Safety control with agitator • Safety control with agitator and timer • Mounting plate - container lid or IBK	2005883 s 2005813 s 2005871 s 2005835 s 2005919 s 2005880 s 2005821 s 2005964 s	
* Safety control, mounting plate and base plate optional	 piston pump with hydraulic section P20 - P110 Mounting plate - all IBK piston pumps Container centering - 30L container - adjustable Container centering - 200L container - adjustable Mounting plate - container lid and piston pumps with hydraulic section P20 - P110 Mounting plate - container lid and piston pumps with hydraulic section P160 - P220 Container lid - Ø 630 - 200 - Ø 60 - Ø 28,5 - G3/8i - Mounting - universal hole pattern (p. 44) 	2005820 s 2005872 s 2005920 s 2005825 s 3141820 s 3141821 s	on request
*	 Trolley "Type 630" - epoxy-enhanced steel - with lockable steering rollers - for elevators 2005883 and 2005813 (see above) Trolley "Type 630" (p. 18) like 2005060 but without lockable steering rollers Options - trolley "Type 630" Assembly kit - trolley "630" with pneumatic elevator 100kg consisting of base plate, retainer bracket and accessories Base plate (mounting on top) Base plate (mounting on bottom) incl. braces (only usable for trolley "630" without lockable steering rollers) 	2005060 s 2005021 s 2005365 s 2005362 s 2005360 s	
★ Safety control, mounting plate, assembly kit, container centering and base plate (no fig.) optional	Piston pumps (p. 10-11) Agitators (p. 33 - 36) Other versions on request		



		Wall b	prackets for piston pumps
ltem	ltem no.	Price	
Wall bracket - epoxy-enhanced steel for piston pumps with hydraulic sections: • P20-P50 / P20 Spray-Pack - P110 Spray-Pack	2005804		
Wall bracket - epoxy-enhanced steel for piston pumps with hydraulic sections: • clamping range Ø72-Ø76 - P80 - P220 • clamping range Ø56-Ø62	2005810 2005856		
Wall bracket - epoxy-enhanced steel for piston pumps with hydraulic sections: • clamping range Ø85 - Ø91 - P320S - P640S	2005840	on request	
Wall bracket - epoxy-enhanced steel for piston pumps with air driven motors: • D250 - D320L	2005837		
Other versions on request			
All IBK wall brackets are made for direct mounting on IBK trolleys. On ordering of a complete piston pump, the correlating wall bracket is included in delivery.			







SUCTION SYSTEMS





Suction elbows • Distribu	utors		
	ltem	ltem no.1	Price
	 Suction elbow 180° - stainless steel Ø 21,3 - M36x2o IC60° - SN G3/4 SC60° Ø 21,3 - M36x2o IC60° - SN G3/4 SC60° - incl. adapter to M25x1o IC60° Ø 21,3 - M36x2o IC60° - SN M26x1,25 SC60° 	3150016 s 3150007 s 3150025 s	
# 1	• Ø 26,9 - M36x2o IC60° - SN M36x2 SC60°	3141805 s	
	Suction elbow 90° - stainless steel • Ø 21,3 - M36x2o IC60° - G1/2o • Ø 26,9 - M36x2o IC60° - G3/4o	3150010 s 3142120 s	
*	 Suction elbow 90° - stainless steel Ø 21,3 - M36x2o IC60° - SN G3/4 SC60° Ø 26,9 - M36x2o IC60° - SN M36x2 SC60° - Length 150mm - short version 	3141833 s 3141825 s	on request
101=	T-connector - stainless steel M36x2o IC60° - SN M36x2 SC60° - M36x2o IC60° • suction cup and suction hose • 2x suction cup (no fig.) • 2x suction hose (no fig.)	3142110 s 3141806 s 3142130 s	request
	T-connector with drain system for circulation of the material - stainless steel • SN M36x2 SC60° - M36x2o IC60° - M16x1,5o IC60° - ball valve 2x G3/8o IC60° - adjustable • SN M36x2 SC60° - G1o IC60° - M16x1,5o IC60° - ball valve 2x G3/8o IC60° - adjustable * Back pressure regulator not included (p. 15)	3141803 s 3141855 s	
	Distributor LP - DN20 - for 4 suction cups 6L or flexible suction systems - stainless steel • 5x G3/4i - G3/8i Other versions on request	2005980 s	

SUCTION SYSTEMS

			Suction tubes rigid
ltem	ltem no.	Price	
Suction tube - Ø 22,0 - plastic • 292 - SN M36x2 SC60° - SF 1800μm • 292 - SN M36x2 SC60° - SF 1000μm • 420 - SN M36x2 SC60° - SF 1800μm • 420 - SN M36x2 SC60° - SF 1000μm • 420 - SN M30x1,5 SC60° - SF 1800μm • 420 - SN M30x1,5 SC60° - SF 1000μm • 420 - SN G3/4 SC60° - SF 1000μm • 420 - SN G3/4 SC60° - SF 1800μm • 420 - SN G3/4 SC60° - SF 1800μm • 420 - SN G3/4 SC60° - SF 1000μm	3141012 3141013 3141001 3141002 3141008 3141009 3141021 3141022	on request	
Suction tube - Ø 26,9 - stainless steel • 420 - SN M36x2 SC60° - SF 1800µm • 420 - SN M36x2 SC60° - SF 1000µm • 820 - SN M36x2 SC60° - SF 1800µm Also available with integrated check valve (p. 32) Other versions on request	3141006 3141007 3141943		

Filters for suction tubes and hoses

ltem	ltem no.	Price	
Suction filter - plastic - stainless steel - for tubes Ø 20-22 - Ø 48 - 125 • 1800μm • 1000μm	2011103 2011104		The second secon
Suction filter - plastic - stainless steel - for tubes Ø 25,5 - Ø 48 - 125 • 1800μm • 1000μm	2011114 2011116	on request	To the same of the
Suction filter - plastic - stainless steel - for tubes Ø 26-28 - Ø 48 - 125 • 1800μm • 1000μm	2011101 2011102		
SF=suction filter (1000µm=fine, 1800µm=coarse)			



Suction hoses flexible			
	ltem	ltem no.1	Price
	Suction hose - DN25 - 1m - pipe elbow 90° - SN M36x2 SC60° - suction elbow 90° - 500 • SF 1800μm • SF 1000μm	3142001 3142002	
	Suction hose - DN25 - 1,7m - pipe elbow 90° - SN M36x2 SC60° - suction elbow 90° - 900 • SF 1800μm • SF 1000μm	3142003 3142026	
	Suction hose - DN19 - 1m - pipe elbow 90° - SN G3/4 SC60° - suction elbow 90° - 500 • SF 1800μm • SF 1000μm	3142018 3142029	
	Suction hose - DN25 - 1m - straight connection - SN M36x2 SC60° - suction elbow 90° - 500 • SF 1800μm • SF 1000μm	3142015 3142025	
	Suction hose - DN19 - 1m - straight connection - SN G3/4 SC60° - suction elbow 90° - 500 • SF 1800μm • SF 1000μm	3142030 3142033	on
	Suction filters on page 25		request
6	Suction hose - DN25 - pipe elbow 90° - straight connection • SN M36x2 SC60° - SN M36x2 SC60° - 1,0m • SN M36x2 SC60° - SN M36x2 SC60° - 1,7m	3142005 3142006	
	Suction hose - DN13 - straight connection - suction elbow 90° - 500 • SN M36x2 SC60° - M15x1o - 1,0m • SN M36x2 SC60° - M15x1o - 1,5m	3142004 3142013	
	Suction filter - stainless steel • M15x1i - 15 Mesh • M15x1i - 30 Mesh • M15x1i - 60 Mesh • M28x1,5i - 15 Mesh • G1/2i - 60 Mesh • G3/4i - 60 Mesh • G1i - 30 Mesh	2011115 s 2011107 s 2011108 s 2011113 s 2011110 s 2011111 s 20111109 s	
	Other versions on request		



SUCTION CUPS





Suction cups			
	ltem	ltem no.1	Price
	Suction cup 6L complete - plastic M36x2i (incl. sealing ring)	3141810 s	
	Suction cup 6L complete - plastic black ATEX-version - M36x2i (incl. sealing ring) (no fig.)	3141860 s	
***	Suction cup 6L complete - stainless steel M36x2i (incl. O-ring)	3141802 s	on
	Suction cup 6L complete - stainless steel - incl. agitator type AR 0,75Nm/0,35kW - M36x2i (incl. O-ring)	3141816 s	request
	Suction cup 6L complete for hardener and 2K-material - incl. lid with glass - stainless steel (no fig.) M36x2i (incl. O-ring)	3141847 s	
	Suction cup 6L complete for hardener and 2K-material - incl. lid with glass - incl. adsorption dehydrator - stainless steel M36x2i (incl. O-ring)	3141846 s	
	Other versions on request		





			Suction cups
ltem	Item no.1	Price	
Suction cup 30L complete - plastic - Ø 450 M36x2i (incl. sealing ring) - incl. fast coupling with filter and special seal	3141823 s		
Suction cup 25L complete - stainless steel M36x2i (incl. O-ring) Suction cup 25L complete - with lid for mounting an agitator (Ø 44,5) - stainless steel M36x2i (incl. O-ring) (no fig.)	3141829 s 3141835 s	on request	
Suction cup 25L complete for hardener and 2K-material - incl. lid with glass - stainless steel M36x2i (incl. O-ring) (no fig.) Suction cup 25L complete for hardener and 2K-material - incl. lid with glass - incl. adsorption dehydrator - stainless steel M36x2i (incl. O-ring) Other versions on request	3141859 s 3141850 s		



Accessories			
	ltem	ltem no.¹	Price
I-B-K	Check valve for suction cup - IBK suction connection M36x2i (incl. O-ring) - stainless steel Easy changing of filled suction cups - perfect for often material changing and working with small quantity of material	1028010 s	
	Filter disc Ø 88 for suction cups 6L - plastic	3141814 s	
	Filter disc Ø 57 for suction cups 6L / 25L - stainless steel and plastic suction cups 30 L	0037607 s	on request
	Blocking clip for suction cups 6L / 25L - stainless steel and plastic suction cups 30 L	3142912 s	
	Catch basin steel painted with grate and skids • for 1x 200L container - dim. 920 x 830 x 340 mm - 55 kg • for 2x 200L container - dim. 1350 x 830 x 340 mm - 65 kg	0051805 s 0051807 s	



CHECK VALVES





Check valves	• Suction systems		
	ltem	ltem no.	Price
	Check valve for suction system DN15 - stainless steel		
	• M26x1,5i • M28x1,5i	1023897 1023841	
	• Ø22i - suction tubes • Ø27i - suction tubes	1023873 1023874	
	Note: The check valves above can be integrated in IBK-suction filters (p. 25)		on request
	Check valve for suction system DN15 - release pin - stainless steel - Ø22i	1023893	
	Other versions on request		

Check valves	Material outlet		
	ltem	ltem no.	Price
MAX 350 BAR	Check valve PN350 - OP 1bar - DN4 - stainless steel • G1/4o IC60° - G1/4o IC60° • G1/4o IC60° - M16x1,5o IC24° TO10 • G1/8o IC60° - M16x1,5o IC24° TO10 • M16x1,5o IC24° TO10 - G1/4o IC60° • M16x1,5o IC24° TO10 - M16x1,5o IC24° TO10	1023842 1023844 1023843 1023847 1023848	
THE NO. THE	Check valve PN500 - OP 1bar - DN8 - stainless steel • M16x1,5i - M16x1,5i • G3/8i - G3/8i	1023836 1023900	on request
	Check valve PN500 - OP 10bar - DN8 - stainless steel • M16x1,5i - M16x1,5i	1023879	
	Other versions on request		



AGITATORS





Agitator systems wit	h vane motor		
	ltem	Item no.1	Price
	Order of the technical data: Motor complete, connector, shaft, stirring element, poss. add. adapter, mounting		
	Air driven agitator Type AR 0,75Nm - 0,35kW, Ø 9,5 - Ø 10, Ø 10 - 300, VS Ø 72 - H 52 - CCW, edge mount, slide collar Ø 31,8	4500801 s	
	Air driven agitator Type AR 2,5Nm - 0,68kW, Ø 12,7 - Ø 16, VS Ø 125 - Ø 16i - H 125 - CW, Ø 44,5 - HN 63,5 - 3x M6i • shaft Ø 16 - 300 (no fig.) • shaft Ø 16 - 300, special conn. incl. slide collar Ø 44,5 • shaft Ø 16 - 800 (no fig.) • shaft Ø 16 - 800, special conn. incl. slide collar Ø 44,5	4500895 s 4500802 s 4500896 s 4500803 s	
	Air driven agitator (no fig.) Type AR 4Nm - 1,75kW, Ø 12,7 - Ø 16, VS Ø 125 - Ø 16i - H 125 - CW, Ø 44,5 - HN 63,5 - 3x M6i • shaft Ø 16 - 300 • shaft Ø 16 - 300, special conn. incl. slide collar Ø 44,5 • shaft Ø 16 - 800 • shaft Ø 16 - 800, special conn. incl. slide collar Ø 44,5	4500897 s 4500854 s 4500898 s 4500853 s	
000	Air driven agitator Type AR 8Nm - 3,0 kW, Ø 19 - Ø 16, Ø 16 - 800, AB Ø 325 - Ø 16i - H 82 - CW, Ø 81 - HN 100 - 3x M6i	4500887 s	on request
	Air driven agitator Type VA 2Nm - 0,67kW, Ø 12,7 - Ø 16, Ø 16 - 800, SPG Ø 130 - Ø 16i - H 50 - CW, handheld	4500821 s	
	Air driven agitator (no fig.) Type VA 4Nm - 1,8kW, Ø 12,7 - Ø 16, Ø 16 - 800, SPG Ø 130 - Ø 16i - H 50 - CW, handheld	4500840 s	
	Air driven agitator Type VA 2Nm - 0,67kW, Ø 12,7 - Ø 16, Ø 16 - 800, SPG Ø 130 - Ø 16i - H 50 - CW, check valve, handheld	4500850 s	
	Air driven agitator (no fig.) Type VA 4Nm - 1,8kW, Ø 12,7 - Ø 16, Ø 16 - 800, SPG Ø 130 - Ø 16i - H 50 - CW, check valve, handheld	4500852 s	
	Air driven gear agitator Type AR 0,5 - 9 - 4,5Nm - 0,25kW, Ø 10 - Ø 16, Ø 16 - 800, SPG Ø 130 - Ø 16i - H 50 - CW, check valve, handheld	4500864 s	
	Other versions on request		



Agitator systems with ECO-Line radial piston motor

J			Les Ellie radial pistori motor
ltem	Item no.1	Price	
Order of the technical data: Motor complete, connector, shaft, stirring element, poss. add. adapter, mounting			
Air driven ECO-Line agitator type 3Nm, Ø 14 - Ø 16, VS Ø 125 - Ø 16i - H 125 - CW, centering, slide collar Ø 44,5 • shaft Ø 16 - 300 • shaft Ø 16 - 800	4500856 s 4500886 s		TO 10 CO 10 PC
Air driven ECO-Line agitator (no fig.) type 3Nm, Ø 14 - Ø 16, VS Ø 125 - Ø 16i - H 125 - CW, Ø 80 - HN Ø 100 - 4x M5 • shaft Ø 16 - 300 • shaft Ø 16 - 800	4500893 s 4500894 s		
Air driven ECO-Line agitator type 3Nm, Ø 14 - Ø 20, Ø 20 - 310 - M10o, AD Ø 170 - H 58 - M10i - CW, HN Ø 100 - 4x Ø 7, version for ATEX zone 0/1	4500874 s		
Air driven ECO-Line agitator type 14Nm, Ø 19 - Ø 16, Ø 16 - 800, AB Ø 325 - Ø 16i - H 82 - CW, Ø 95 - HN Ø 115 - 4x Ø 7 - 4x M6i	4500889 s	on request	
Air driven ECO-Line agitator (no fig.) type 14Nm, Ø 19 - Ø 20, Ø 20 - 800, AB Ø 475 - Ø 20i - H 82 - CW, Ø 95 - HN Ø 115 - 4x Ø 7 - 4x M6i	4500890 s		
Air driven ECO-Line agitator type 28Nm, Ø 19 - Ø 25, Ø 25 - Ø 16 - 1000,			2000
ADF Ø 500 - ID Ø 150 - 100 - Ø 25 - CW, VS Ø 125 - Ø 16i - H 125 - CW, Ø 95 - HN Ø 115 - 4x Ø 7 - 4x M6i	4500891 s		
Air driven ECO-Line agitator (no fig.) type 28Nm, Ø 19 - Ø 20, Ø 20 - 800, AB Ø 475 - Ø 20i - H 82 - CW, Ø 95 - HN Ø 115 - 4x Ø 7 - 4x M6i	4500892 s		
Other versions on request			

INDIVIDUAL AGITATORS





Motor complete

(p. 38/39)

your requirements.

In this case please take advice

You also can compile a custom agitator, which meets exactly

Connector

(p. 40)

for the following parameters:
• Material parameters

- Container dimensions
- Plug in diameters
- Mounting possibilities

We can give professional advice to your individual configuration. Please ask us!



(p.40)



Stirring element

(p.41)



There are more options for individual configuration:

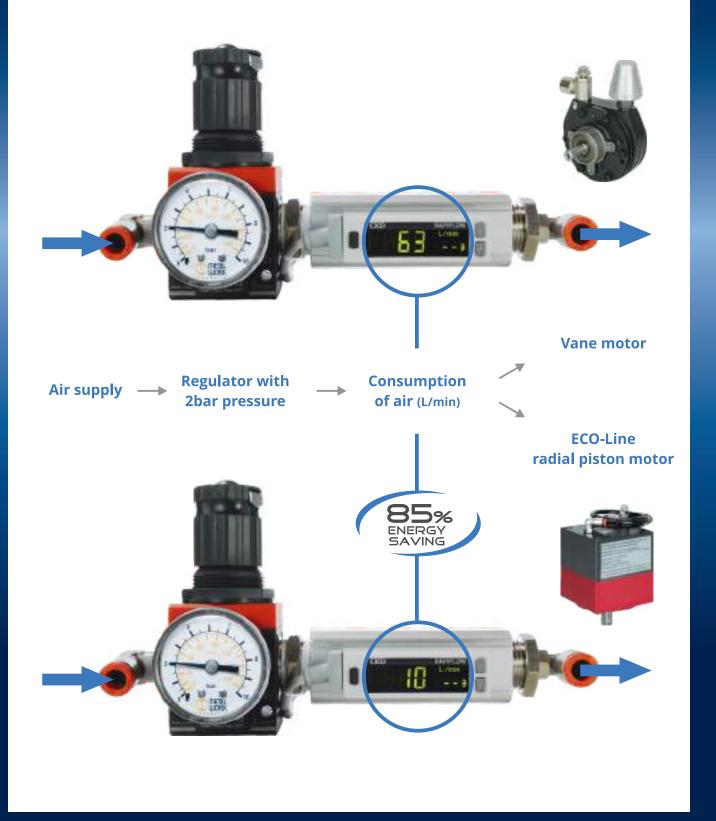
- Special connectors (p. 42)
- **Adapters** (p. 42)
- Slide collars (p. 42)

Mounting options:

- **Brackets** (p. 43)
- **Traverses** (p. 43)
- Container lids (p. 44)

MOTOR EFFICIENCY TEST

The practical test exposes the thruth. With exactly 2 bar air pressure and the same rotational speed of the agitator, a conventional vane motor needs 63 litres/min air consumption, instead our ECO-Line motor only needs approx. 10 litres/min.





Air driven vane motors complete







	L.						
Туре	Torque	Power	Max. speed	Center.	Motor shaft	Item no.1	Price
AR	0,5 Nm	0,25 kW	7600 rpm	Ø 31,8	Ø 9,5	4500011 s	
AR	0,75 Nm	0,35 kW	6000 rpm	Ø 31,8	Ø 9,5	4500023 s	
AK	0,75 MIII	0,55 KW	000010111	0,16	9,3	4300023 \$	
							on
AR	2,5 Nm	0,68 kW	3000 rpm	Ø 44,5	Ø 12,7	4500013 s	request
AR	4,0 Nm	1,75 kW	4000 rpm	Ø 44,5	Ø 12,7	4500016 s	
AR	9 0 Nm	3,0 kW	3000 rpm	Ø 81,0	Ø 19,0	4500018 s	
AK	8,0 Nm	3,0 KW	3000 I pili	0,10	ו פוש (43000163	

Motors complete incl. regulator valve and sound absorber

Mounting: Slide collar Ø 31,8 (p. 42) Slide collar Ø 44,5 or HN Ø 63,5 - 3x M6i Ø 81,0 - HN Ø 100 - 3x M6i

Air driven vane motors with gearbox complete



Туре	i	Torque	Power	Max. speed	Center.	Motor shaft	ltem no.1	Price
AR AR	9	4,5 Nm 6,75 Nm	0,25 kW 0,35 kW	300 rpm 300 rpm	Ø 25 o Ø 25 o	Ø 10 Ø 10	4500034 s 4500035 s	
AR	10	25,0 Nm	0,68 kW	600 rpm	Ø 55 o	Ø 20	4500050 s	on
AR	20	50,0 Nm	0,68 kW	300 rpm	Ø 55 o	Ø 20	4500052 s	request
AR	10	40,0 Nm	1,75 kW	400 rpm	Ø 55 o	Ø 20	4500083 s	
AR	20	80,0 Nm	1,75 kW	200 rpm	Ø 55 o	Ø 20	4500080 s	

Other versions on request

Mounting: Ø 250 - HN Ø 33 - 4x M4i

Ø 550 - HN Ø 70 - 4x M6i



ECO-Line air driven radial piston motors

Our ECO-Line motors are delivered with regulator valve and sound absorber. Further the ECO-Line motors offer following advantages:

- Up to 85% energy saving
- Oil-free operation possible
- Noise level 76 78 dBA
- Silicon-free versions
- Anodized housing
- Double beared flange
- Connection: G1/8i resp. plug connection Ø 6 (type 3 Nm) / Ø 8 (types 14 Nm / 28 Nm)



ltem	Speed range	Centering	Bolt circle	Mot. shaft	ltem no.¹	Price
Type 3 Nm	60 - 800 rpm	Ø 80	Ø 100 - 4x M5i	Ø 14	4501083 s	
Type 14 Nm	50 - 350 rpm	Ø 95	Ø 115 - 4x Ø 7 - 4x M6i	Ø 19	4501094 s	on request
Type 28 Nm	50 - 350 rpm	Ø 95	Ø 115 - 4x Ø 7 - 4x M6i	Ø 19	4501098 s	

Variable with add. centering flange





Type 3 Nm

Type 14 Nm

Type 28 Nm



Connectors



Both-sided location bore with 2 setscrews



Like model A with 2 keyways for special connectors

Mot. shaft	Shaft	Outer	Length	Model	ltem no.1	Price
Ø 9,5 Ø 9,5	Ø 10 Ø 16	Ø 28 Ø 28	80 80	A A	5003004 s 5019023 s	
Ø 10 Ø 10	Ø 10 Ø 16	Ø 28 Ø 28	80 80	A A	5019039 s 5019028 s	
Ø 12,7 Ø 12,7 Ø 12,7	Ø 10 Ø 16 Ø 20	Ø 28 Ø 28 Ø 35	80 80 90	A B A	5019003 s 5019004 s 5019029 s	
Ø 14 Ø 14 Ø 14	Ø 10 Ø 10 Ø 16	Ø 28 Ø 28 Ø 28	60 80 80	A B B	5019032 s 5019025 s 5019030 s	on request
Ø 19 Ø 19 Ø 19	Ø 16 Ø 20 Ø 25	Ø 35 Ø 35 Ø 40	90 90 100	A A A	4501134 s 5019021 s 5019013 s	
Ø 20 Ø 20 Ø 20	Ø 10 Ø 16 Ø 20	Ø 28 Ø 35 Ø 35	80 90 90	A A A	5019027 s 5019020 s 5019016 s	
Ø 25 Ø 25	Ø 16 Ø 20	Ø 40 Ø 40	100 100	A A	5019007 s 5019008 s	
Ø 30	Ø 16	Ø 45	100	A	5019006 s	

All items made of stainless steel • Other versions on request

Agitator shafts



ltem	ltem no.¹	Price
Shaft with vortex spiral - stainless steel • Ø 10 - 300 - VS Ø 72 - 52 - CCW • Ø 10 - 550 - VS Ø 72 - 104 - CCW	5004000 s 5004040 s	
Shaft - stainless steel • Ø 10 - 300 - M80 • Ø 10 - 500 - M6i • Ø 16 - 300 - M100 • Ø 16 - 300 • Ø 16 - 600 • Ø 16 - 800 • Ø 16 - 800 - M100 • Ø 16 - 1000 • Ø 20 - 800 - M20x1,50 • Ø 20 - 800 • Ø 20 - 800 • Ø 25 - 1000	5022014 s 5004065 s 5024010 s 5022004 s 5023004 s 5021004 s 5024011 s 5025004 s 5028005 s 5027004 s 5027006 s	on request
Shaft for IBC-Containers - for vortex spirals and discs - stainless steel • Ø 20 - Ø 16 - 800 • Ø 25 - Ø 16 - 1000	5027009 s 5027008 s	



			Agitator stirring elements
ltem	ltem no.1	Price	
Vortex spiral (VS) - stainless steel • Ø 125 - Ø 16i - H 125 - CW • Ø 125 - Ø 16i - H 125 - CCW	5013000 s 5014000 s		
Stirring paddle (SP)- stainless steel • Ø 65 - Ø 6i - H 22 - CW • Ø 100 - Ø 10i - H 45 - CW • Ø 125 - Ø 16i - H 45 - CW • Ø 125 - Ø 16i - H 45 - CCW • Ø 220 - Ø 16i - H 45 - CCW • Ø 220 - Ø 16i - H 45 - CCW	5039062 s 5039060 s 5039100 s 5039200 s 5040100 s 5040200 s		
Stirring paddle with guard (SPG)- stainless steel • Ø 70 - Ø 6i - H 32 - CW • Ø 105 - Ø 10i - H 50 - CW • Ø 130 - Ø 16i - H 50 - CW • Ø 225 - Ø 16i - H 50 - CW	5039066 s 5039050 s 5039000 s 5040000 s	on request	
Agitator disc (AD)- stainless steel • Ø 60 - 22 - M8i - CW • Ø 120 - 38 - M8i - CW • Ø 150 - 44 - M10i - CW • Ø 210 - 68 - M10i - CW • Ø 260 - 78 - Ø 20i - CW • Ø 320 - 100 - Ø 16i - CW • Ø 430 - 121 - Ø 25i - CW	5045010 s 5045020 s 5045030 s 5045040 s 5045059 s 5045045 s 5045044 s		
Agitator disc foldable (ADF)- stainless steel • Ø 170 - ID Ø 35,0 - 30 - M8i - CW • Ø 300 - ID Ø 50,4 - 44 - M12i - CW • Ø 500 - ID Ø 150,0 - 100 - Ø 25i - CW • Ø 650 - ID Ø 150,0 - 121 - M20x1,5i - CW	5045065 s 5045061 s 5045064 s 5045050 s		0-1-0
Agitator blade angled (AB)- stainless steel • Ø 220 - Ø 16i - H 82 - CW • Ø 325 - Ø 16i - H 82 - CW • Ø 475 - Ø 20i - H 82 - CW Other versions on request	5042003 s 5041003 s 5043003 s		



Special bunghole adap	ters • Adapters • Slide collars		
	ltem	Item no.1	Price
3	Order of the technical data: Connector, reducer, slide collar for mounting		
	Special connector Ø 12,7 - Ø 16,0, Ø 44,5i - Ø 44,5o, Ø 44,5i for type AR 2,5Nm - 0,68kW up to type AR 4Nm - 1,75kW	4501020 s	
	Special connector Ø 14,0 - Ø 16,0, Ø 44,5i - Ø 44,5o, Ø 44,5i for type 3Nm with centering flange	4501075 s	
	Adapter bunghole Ø 44,5i - G2o for type AR 2,5Nm - 0,68kW up to type AR 4Nm - 1,75kW and all motors with centering flange	5011016 s	on request
	Adapter bunghole Ø 44,5i - G2o - 15° tilt for type AR 2,5Nm - 0,68kW up to type AR 4Nm - 1,75kW and all motors with centering flange	5011017 s	
	Back nut / locking nut G2 for bunghole - usable as back nut or for lid mounting	0002814 s	
	Slide collar Ø 31,8i lid mounting for type AR 0,5Nm - 0,25kW and type AR 0,75Nm - 0,5kW	5018005 s	
	Slide collar Ø 44,5i lid mounting for type AR 2,5Nm - 0,68kW up to type AR 4Nm - 1,75kW and type 3Nm with centering flange	5018004 s	



			Brackets • Traverses
ltem	ltem no.1	Price	
Handle - handheld agitators, for slide collars Ø 31,8 and Ø 44,5	5010000 s		
Retainer - handheld agitators type VA 2Nm - 0,67kW, type VA 4Nm - 1,8kW	5002100 s		
Bracket - container edge mount - agitators type AR 0,5Nm - 0,25kW, type AR 0,75Nm - 0,35kW mounting: slide collar Ø 31,8	5002000 s		100
Bracket - stand - agitators type AR 2,5Nm - 0,68kW, type AR 4Nm - 1,75kW, type 3Nm mounting: slide collar Ø 44,5i, alternative screws	2005958 s		
Bracket 2005958 incl. reducer plate 4501119 type AR 0,5Nm - 0,25kW, type AR 0,75Nm - 0,35kW mounting: slide collar Ø 31,8i	2005897 s	on	
Bracket - trolleys - agitators type AR 2,5Nm - 0,68kW, type AR 4Nm - 1,75kW, type 3Nm mounting: slide collar Ø 44,5i, alternative screws	2005957 s	request	
Bracket 2005957 incl. reducer plate 4501119 type AR 0,5Nm - 0,25kW, type AR 0,75Nm - 0,35kW mounting: slide collar Ø 31,8i	2005823 s		6-6-5
Reducer plate - bracket Ø 44,5i to Ø 31,8 type AR 0,5Nm - 0,25kW, type AR 0,75Nm - 0,35kW	4501119 s		000
Traverse - 30L container - Ø max. 350 - universal hole pattern for all IBK agitators	5002016 s		
Traverse - 30L container - Ø max. 395 - with pipe clamp Ø 26,9 for suction tubes - universal hole pattern for all IBK agitators	5002017 s		-
Traverse - 200L container - Ø max. 620 - universal hole pattern for all IBK agitators (no fig.)	5002015 s		Al MA
Traverse with handles - 1000L IBC-container with tubular frame - suitable for forklift - agitators and mounting on request (no fig.)	5002014 s		



Contain	Container lids, stainless steel									
Size	Length foldable	Suc rigid	tion flexible	Fitting	Assembling mounting	Assembling agitator	Item no.1	Price		
30 L container	Totadate	rigia	Пехіріе		mounting	agrater				
Ø 350	80	Ø 55	Ø 28,5	G¾ i	Bracket	Uni hole pattern	0051290 s			
Ø 350	80		Ø 28,5	G¾ i	Edge mount.	Uni hole pattern	0051326 s			
Ø 350					Edge mount.	Special Ø 31,8	0051269 s	on		
200 L container								request		
Ø 630	200	Ø 60	Ø 28,5	G¾ i	Bracket	Uni hole pattern	0051826 s			
Ø 630	200		Ø 28,5	G¾ i	Bracket	Uni hole pattern	0051821 s			
Ø 630	200		Ø 28,5	G% i	Edge mount.	Uni hole pattern	0051309 s			

Versions for other containers and IBC containers on request.

Brackets and traverses on page 43.



Length foldable: Dimension of foldable part of the lid for filling or visual control

Suction: • Hole for rigid suction tubes (p. 25)

• Hole for flexible suction hoses (p. 26)

Fitting: Connection for recirculation of material or connecting measuring equipment

Assemb. mounting: • Lid with bracket for mounting on trolleys (p. 19)

• Lid with 2 handles and edge mounting with lateral wing bolts

Assemb. agitator: • Agitator mounting with universal hole pattern for all standard IBK agitators

 \bullet Special hole pattern Ø 31,8 for types AR 0,5 Nm - 0,25 kW and AR 0,75 Nm - 0,35 kW (p. 34)



FILTER SYSTEMS





Inline filters			
	ltem	Item no.1	Price
	Inline filter PN250 - with lateral connector G1/4i - stainless steel • M16x1,5o IC60° - M16x1,5o IC60°	3130520 s	
	Inline filter PN250 - with lateral connector G1/4i - incl. swivel joint - stainless steel • M16x1,5o IC60° - M16x1,5o IC60° • G1/4o IC60° - G1/4o IC60°	3130540 s 3130541 s	
	Inline filter PN250 - with lateral connector G1/4i and ball valve G3/8o IC60° adjustable - stainless steel • M16x1,5o IC60°- M16x1,5o IC60°	3130560 s	on request
	Plug in filters long - for inline filters HP • 50μm - red • 140μm - yellow • 300μm - white	1018204 s 1018205 s 1018206 s	



					ŀ	HP-filters
		Item			ltem no.	Price
Connectors: ln: • M16x1,5i • M16x1,5i	Out 1: M16x1,5o IC60° G1/4o IC60° G1/4 NPSMo IC60° G3/8o IC60° G3/8i	ve 2x G3/8o IC60° Out 2: M16x1,5i M16x1,5i M16x1,5i M16x1,5i G3/8i	- clamping pin - s Manometer: G3/8i G3/8i G3/8i G3/8i G3/8i	Ball valve: G3/8i G3/8i G3/8i G3/8i G3/8i G3/8i G3/8i	3130501 3130510 3130532 3130513 3130511	on request
HP-filter PN5 (Connectors:	00 - DN9 - 450 - ball val	ve 2x G3/8o IC60°	- clamping pin - s	stainless steel		
ln: • M16x1,5i • G3/8i	Out 1: M16x1,5o IC60° G3/8i	Out 2: M16x1,5i G3/8i	Manometer: G3/8i G3/8i	Ball valve: G3/8i G3/8i	3130505 3130517	

		_	
			Accessories for HP-filters
ltem	Item no.1	Price	
Manometer - PN 0 - 250 bar Ø 63 - G1/4o bottom - GLY - stainless steel	2700804 s		
Manometer mounting G3/8o - G1/4i - incl. sealing ring	1007025		
Wall bracket • Standard • Heavy version (no fig.)	2005886 2005935		
Bracket for clamping pin - incl. mounting screws - stainless steel	2005885	on request	
HP-filter inserts on page 48		request	
Safety elements for avoiding accidental adjustments:			
Safety ball valve - PN500 - DN8 - stainless steel • 2x G3/8o lC60° - spanner width 17	1019826		
Special key - for safety ball valve	0073028		
Bracket for special key - incl. mounting screws - stainless steel	2005932		



HP-double filters



ltem	Item no.	Price
HP-double filter - PN500 - DN9 - wall mounting • 2x filter 450 - 4x G3/8o IC60° • 2x filter 114 - 4x G3/8o IC60°	3130610 s 3130611 s	on request
 HP-double filter - PN500 - DN9 - incl. 3x manometers - wall mounting 2x filter 450 - 4x G3/8o IC60° 2x filter 114 - 4x G3/8o IC60° 	3130612 s 3130613 s	

HP-filter inserts



ltem	ltem no.	Price
HP-filter insert - Ø 27 - 114 - stainless steel • 00 - 40μm • 01 - 60μm • 02 - 75μm • 03 - 80μm • 04 - 90μm • 05 - 140μm • 06 - 190μm • 09 - 240μm • 12 - 320μm • 15 - 410μm • 20 - 530μm	1024100 1024101 1024102 1024103 1024104 1024105 1024106 1024109 1024112 1024115 1024120	on request
Stabilisation spring for HP-filter - 114 HD-filter insert - Ø 27 - 450 - stainless steel (no fig.) • 04 - 90µm • 06 - 190µm • 09 - 240µm • 15 - 410µm • 20 - 530µm Stabilisation spring for HP-filter - 450 (no fig.)	0011038 1025104 1025106 1025109 1025115 1025120 0011039	



DISTRIBUTORS





Price

on request

Lact	COLL	nling
газі		pling
		P''' 'D



Fast coupling complete - PN250 - DN5 - G1/4o IC60° - G1/4i - Vi extreme - hardener and 2K - lubricant chamber with glass
With Blass
For quick pressureless connection of hose and material systems with optimized flushability.

Item



Fast coupling part 1	
for maschine mounting - PN250 - DN5 - G1/4i -	
Vi extreme - hardener and 2K - stainless steel	1006312

Fast coupling part 2
for hose mounting with SN -
PN250 - DN5 - G1/4o IC60°- hardener and 2K -
stainless steel

1006313

Item no.1

1006311

Flushing valve



ltem	Item no.1	Price
Flushing valve - PN250 - DN10 - 3x G3/8i - stainless steel	1019900 s	
For easy switching from spraying to cleaning, compact design, double sided pressure while spraying with several spray guns		
Options: Actuator - pneumatic, single acting with magnetic valve - for flushing valve - PN250 - DN10 - 3x G3/8i (no fig.)	1019901 s	on request

1019902 s



			Distributors
ltem	ltem no.	Price	
Distributor - PN500 - DN5 - stainless steel • SN M16x1,5 SC - 2x M16x1,5o IC60° • SN M16x1,5 SC - 2x G1/4o IC60°	1023829 1023898		SO BAR
Distributor - PN500 - DN5 - stainless steel • SN M16x1,5 SC - 2x G3/8i • M16x1,5i - 2x M16x1,5i • G3/8i - 2x G3/8i	1023833 1023857 1023830	on request	NAX SOO BAS
Distributor - PN500 - DN6 - stainless steel incl. 2x ball valve • SN G1/4 NPSM - G1/4o IC60° - G1/4 NPSMo IC60°	1023895		
Distributor - PN500 - DN8 - stainless steel incl. 2x ball valve (adjustable) • M16x1,5o - 2x M16x1,5o IC60° • G3/8o - 2x G3/8o IC60°	1023889 1023887		
Other versions on request			

Mixers

Mixer system 2K - stainless steel • Mechanic with ball valves - PN500 - DN8 • Pneumatic with spray guns - AA5 - PN250 - DN5 (no fig.) The single material components are first mixed in the mixing pipe. This results in an optimized rinsability of the individual components				
 Mechanic with ball valves - PN500 - DN8 Pneumatic with spray guns - AA5 - PN250 - DN5 (no fig.) The single material components are first mixed in the mixing pipe. This results in an optimized 	ltem	ltem no.	Price	
Other versions on request	 Mechanic with ball valves - PN500 - DN8 Pneumatic with spray guns - AA5 - PN250 - DN5 (no fig.) The single material components are first mixed in the mixing pipe. This results in an optimized rinsability of the individual components 			



Ball valves			
	ltem	Item no.1	Price
A CONTROL OF THE PARTY OF THE P	Ball valve - PN350 - DN10 - stainless steel • G3/8i - G3/8i Ball valve - PN500 - DN8 - stainless steel • M16x1,5o IC60° - M16x1,5o IC60° • M16x1,5o IC60° - G3/8o IC60° • G3/8o IC60° - G3/8o IC60° • G1/4o IC60° - G1/4o IC60°	1019846 1019845 1019851 1019801 1019852	
No. de Caración de	Safety ball valve - PN500 - DN8 - stainless steel • 2x G3/8o IC60° - spanner width 17	1019826	
	Special key - for safety ball valve	0073028	on request
	Ball valve 3-way - L-hole - stainless steel • PN63 - DN10 - 3x G3/8i • PN63 - DN20 - 3x G3/4i	1019853 s 1019802 s	
	Other versions on request		



SPRAY GUNS VALVES





Spray guns			
	ltem	ltem no.1	Price
	Air-Combi-spray gun - IBK 5000 - PN250 material connection with ball bearing mounted swivel - material leading parts in stainless steel - short filter - incl. tip as required (p. 60) • NPS 1/40 IC60° - G1/40 IC60° • M16x1,50 IC60° - G1/40 IC60°	3202008 s 3202009 s	
	Airless-spray gun - IBK T245 - PN250 - M16x1,50 IC60° - without tip mounting - without tip (no fig.) Airless-spray gun - IBK T245 - PN250 - M16x1,50 IC60° - incl. tip mounting 11/16" - incl. tip as required	3201017 s 3201016 s	on request
	Airless-spray gun - IBK T480 - PN500 - M16x1,50 IC60° incl. tip mounting 11/16" - incl. tip as required Airless-spray gun - IBK HDP500 - PN500 - M16x1,50 IC60° incl. tip mounting 11/16" - incl. tip as required	3201013 s 3201018 s	
	Options on pages 55, 59, 60 Other versions on request		



			Handle filters
ltem	Item no.1	Price	
Screw in filter short - for handheld spray guns Packing unit 10 pcs. • 50µm - red • 140µm - yellow • 300µm - white	1018201 s 1018202 s 1018203 s		
Plug in filter long - for handheld spray guns and inline filters • 50µm - red • 140µm - yellow • 300µm - white	1018204 s 1018205 s 1018206 s	on request	

Brac	ket for	spray	guns
		- P	0

ltem	ltem no.	Price	
Bracket universal - for Airless- and Air-Combi spray guns	0004909	on request	
More options on pages 59, 60			





Airless-Automatic-	Spray gu	ns • Valve	es				
With special hardened	Туре	DN	Material IN	Drain / Lubricant	Air IN	Stroke adjustment	Venting cylinder
stainless steel parts	AA PN250	DN2	2x G1/4i	M5i	M5i	M8x0,5i	M5i
(III)		Output materia	I	Seali	ng	ltem no.	Price
	• 11/16"x16 l			Vito Viton ex		3209001 3209048	
	• M18x1o - ti • M18x1o - ti			Vito Viton ex		3209101 3209104	
200 848	• 3/8"x24 UN	Fo		Vito	n	3209021	
9	• G3/80 • G3/80			Vito Viton ex		3209012 3209063	
	• G1/4o IC60 • G1/4o IC60			Vito Viton ex		3209035 3209043	
NAZ SSI BAA	DN2 plugDN2 plugDN5 plugDN5 plug		Vito Viton ex Vito Viton ex	treme n	3209009 3209042 3209065 3209064	on request	
88	Version with lubricant inspection glass, especially made for hardener and 2K material						
G.	• 11/16"x16 l • 11/16"x16 l			Vito Viton ex		3209055 3209056	
S	• M18x1o - ti • M18x1o - ti			Vito Viton ex		3209052 3209053	
A Second	• DN2 plug • DN2 plug			Vito Viton ex		3209050 3209051	
SON.	* Stroke setting with scale opt. (p. 59)						
* AA-Spray gun PN250 - DN2 - with tube 300 (others on request) for inside painting - without tip (tips on p. 60)							
	• Headunit 45 • Headunit 60					3209047 3209062	



Sealing direct ahead of tip - no dripping



				Airless-	Automatic-	Spray guns • Valves
Туре	DN	Material IN	Drain / Lubricant	Air IN	Stroke adjustment	With special hardened
AA PN250	DN5	2x G3/8i	G1/8i	G1/8i	M8x0,5i	stainless steel parts
	Output material		Sealing	ltem no.	Price	曲
• G1/2o • G3/8 LN • G3/8 LN			Viton Viton Viton extreme	3209034 3209015 3209032	on request	HAX 250 BAR
	ubricant inspe de for hardene o fig.)		Viton Viton extreme Viton extreme	3209013 3209029 3209038	request	MAX 250 BAR
Туре	DN	Material IN	Drain / lubricant	Air IN	Stroke adjustment	6 lin
AA PN160	DN9	2x G3/8i	G1/8i	G1/8i	M8x0,5i	
	Output material		Sealing	Item no.	Price	No.
• 11/16"x16 U • G3/8o • DN5 plug	No		Viton Viton Viton	3209025 3209027 3209031	on request	HAX 140 MAI
Options (p. 5) Delivering wi	sions also ava 8, 59) ithout tip (p. 6 ns on request	50)	n extreme			



Distributor blocks

With using a double connector you can extend and combine our distributor blocks as required.



Example distributor block combination complete PN250 - DN8 - 7x DN2 plug - G1/4i, consisting of item no. 2000032, 2000030, 0009878, 0005816



in use with AA-spray guns in 3/2-way valve function



ltem	ltem no.	Price
Distributor block complete - PN250 - stainless st. • DN8 - 3x DN2 plug - 1x G1/4i • DN10 - 3x DN5 plug - 1x G3/8i	2000032 2000044	
Distributor block complete - PN250 - stainless st. • DN8 - 5x DN2 plug - 1x G1/4i • DN10 - 5x DN5 plug - 1x G3/8i	2000030 2000035	
Distributor blocks complete including: Screw plug G1/40 DN2 Screw plug G3/80 DN5 Sealing ring Ø 14 x Ø 18 x 1,5 DN2 Sealing ring Ø 17 x Ø 22 x 1,5 DN5 Hexagon screw - DN2 plug - M4x40 Hexagon screw - DN5 plug - M5x50	0052009 0052025 0012077 0012066 2000014 0001847	on request
Double connector - without O-ring • PN250 - DN2 plug - G1/4o IC60° • PN250 - DN5 plug - G3/8o IC60°	0009878 0009883	
Blind plug - without O-ring PN250 - DN2 plug PN250 - DN5 plug	2000015 2000027	
O-ring DN2 plug - Viton DN2 plug - Viton extreme DN5 plug - Viton DN5 plug - Viton DN5 plug - Viton	0005816 0005820 0005108 0005126	



			Accessories
ltem	ltem no.	Price	
Stroke setting with scale 0,5 mm stroke per rotation - locking nut • For AA-spray guns / valves DN2 • For AA-spray guns / valves DN5 / DN9	3209350 3209351		
Adapter - M8x0,5o - G1/8i -self locking sealing plate - for all AA-spray guns	3209352		
Sealing plug - M8x0,5o - with ventilation - for all AA-spray guns / valves	3150030		
Threaded pin - M5 - for AA-spray guns / valves DN2	0001039		
O-ring - for air cylinder • For AA-spray guns / valves - DN2 • For AA-spray guns / valves - DN5 / DN9	0005092 0005822	on request	
Elbow - HP - 90° - fixed - DN6 - 2x G1/4o IC60° - for AA-spray guns / valves DN2	0009824		
Elbow - HP - 90° - fixed - DN8 - 2x G3/8o IC60° - für AA-spray guns / valves DN5 / DN9	0009893		
Lubricant inspection glass - 90° - G1/8 - 41 - for all AA-spray guns / valves	1007070		
Adjustable joint - 11/16" - complete - for airless spray guns	3209372		



Tips for handheld and automatic spray guns					
	ltem	ltem no.¹	Price		
	The complete item number consists of: item no. spray angle drilling 393S + 4 + 07 e.g. (40°) (0,07 inch) Example of complete item number: 393Sxxx > 393S407 (all commercially available sizes)				
	Air-Combi tip for spray gun AC250/IBK4000 - with SAC pre atomizer - L 19,5 - gland Ø 13,35 - long version	393S xxx s			
	Air-Combi tip for spray guns AC250/IBK4000/Optima2000 - with SAC pre atomizer - L 13,5 - gland Ø 13,35 - short version	393K xxx s	on request		
	Air-Combi tip for spray guns AC250/IBK5000/Optima2100 - with SAC pre atomizer - SK-version	393B xxx s			
	Airless flat spray nozzle for IBK airless handheld- and AA-spray guns	393A xxx s			
	Reversible tip for airless spray gun T245 - tip size as required, see above Reversible tip for airless spray gun T480/HDP500 - tip size as required, see above	393T xxx s 395T xxx s			
	Other versions on request Cleaning accessories on page 70				



ADAPTERS CONNECTORS











ADAPTERS • CONNECTORS



Standard adapters			
	ltem	Item no.1	Price
	Outer thread - Outer thread Adapter LP - DN12 - stainless steel • M26x1,5o IC60° - G1/2o IC60° • G3/4o IC60° - UNF1o	0009891 0009901 s	
	• M36x2o IC60° - G3/8o Adapter LP - DN16 - stainless steel	3150006	
610	• M36x2o IC60° - M26x1,5o IC60° • M36x2o IC60° - M30x1,5o IC60°	0009811 0009812	
	• M36x2o IC60° - G3/4o IC60° • M36x2o IC60° - G3/4 NPTo IC60°	0009813 0009829	
	• M25x1o IC60° - G3/4o IC60°	3150012 s	
	Adapter LP - DN25 - stainless steel • G1¼0 - M36x2o IC60° • G1¼0 - M38x1,50 IC60°	0009106 0009107	on request
	Outer thread - Inner thread		
	Adapter LP - DN20 - stainless steel • M36x2o IC60° - G3/4i • M36x2o IC60° - G1i • M36x2o IC60° - M28x1,5i • M36x2o IC60° - M30x1,5i • M36x2o IC60° - M38x1,5i	0009840 0009841 0009842 0009845 0009899	
	Adapter LP - stainless steel • M36x2o IC60° - G1/2i • M36x2o IC60° - M26x1,25i • M36x2o IC60° - M26x1,5i • M36x2o IC60° - M36x2i IC60°	0009839 0009843 0009844 0009870	
	o = Outer thread i = Inner thread Other versions on request		



ADAPTERS • CONNECTORS

			Double connectors
ltem	ltem no.1	Price	
Ouble connector HP - DN6 - stainless steel • G1/4o IC60° - G1/4o IC60° • G1/4o IC60° - G3/8o IC60° • G1/4o IC60° - M16x1,5o IC60° • M22x1,5o IC60° - G1/4o IC60° Double connector HP - DN7 - stainless steel • G1/4o IC60° - M16x1,5o IC60° Double connector HP - DN8 - stainless steel • G3/8o IC60° - M16x1,5o IC60° • G3/8o IC60° - M16x1,5o IC60° • G3/8o IC60° - G3/8o IC60° • G1/2o IC60° - M22x1,5o IC60° • G1/2o IC60° - M16x1,5o IC60° • M16x1,5o IC60° - M16x1,5o IC60° - spanner w. 17 • M16x1,5o IC60° - M16x1,5o IC60° - spanner w. 19 • M16x1,5o IC60° - M16x1,5o IC60° - spanner w. 22 • M16x1,5o IC60° - G1/4 NPSMo IC60° Double connector HP - DN9 - stainless steel • G3/8o IC60° - G1/2o IC60° Double connector HP - DN9 - stainless steel • G3/4 NPTo - M22x1,5o IC60°	0009076 0009805 0009804 0009861 0009079 0009806 0009862 0009124 \$ 0009075 0009808 0009074 0009078	on request	
Other versions on request			

			Reducers
ltem	ltem no.1	Price	
Reducer HP - DN4 - stainless steel • M16x1,5o IC60° - G1/4 SC	1007024		
Reducer HP - DN6 - stainless steel • G1/40 IC24° TO8 - M16x1,5i SC • G1/40 IC24° TO8 - G3/8i SC • G1/40 IC60° - G1/4i • G3/80 IC24° TO10 - M16x1,5 • G3/80 IC24° TO10 - G1/4i SC • G1/80 - G1/4i • M16x1,50 IC24° TO10 - G1/4i SC • M16x1,50 IC60° - G1/4 NPSi • M16x1,50 IC60° - M20x1,5i SC Reducer HP - DN8 - stainless steel • M16x1,50 IC24° TO10 - G3/8i SC	1007016 1007021 1007063 s 1007017 1007020 1007061 s 1007014 1007095 1007018	on request	
• M18x1,50 - M16x1,5i	1007019		
Reducer HP - DN10 - stainless steel • M22x1,50 IC60° - M16x1,5i Reducer HP - stainless steel • M36x20 - G3/4i	1007037 1007042		
Other versions on request			

ADAPTERS • CONNECTORS



Double connectors • Adapters adjustable					
	ltem	ltem no.1	Price		
	Double connector HP - DN8 - adjustable locking nut - stainless steel • M22x1,5 IC60° - M16x1,5o IC60° - 53 • M22x1,5 IC60° - G3/8o IC60° - 53	1007005 1007009			
	• M16x1,5o IC60° - M16x1,5o IC60° - 75	1007803			
	M16x1,5o lC60° - M16x1,5o lC60° - 75 lateral connection G3/8i M16x1,5o lC60° - M16x1,5o lC60° - 75 lateral connection G3/8i - G1/4i	3142390 3142391 s	on		
A Marie Mari	Adapter HP - adjustable SN - stainless steel • DN5 - G1/40 C60° - SN G1/4 SC60° • DN5 - G1/40 C60° - SN G3/8 SC60° • DN5 - G3/80 C60° - SN G1/4 SC60° • DN8 - G3/80 C60° - SN G3/8 SC60° • DN8 - G1/20 C60° - SN G3/8 SC60° • DN11 - G1/20 C60° - SN G1/2 SC60°	0009895 s 0009937 s 0009916 s 0009894 s 0009902 s 0009939 s	request		
3 10	Adapter HD - 90° - adjustable SN - stainless steel • DN6 - G1/4o IC60° - SN G1/4 SC60° • DN8 - G3/8o IC60° - SN G3/8 SC60°	0009867 s 0009873 s			
3	Adapter HD - 90° - rigid - stainless steel • DN6 - G1/4o IC60° - G1/4o IC60° • DN8 - G3/8o IC60° - G3/8o IC60°	0009824 s 0009893 s			
	Other versions on request				



SWIVEL JOINTS







Ball bearing swivel joints







oints				
Item	ltem no.¹	Price		
Swivel joint - PN350 - DN4 - ball bearing mounte stainless steel hose connection - spray gun connection	d -			
• M16x1,5o IC60° - M14x1,0o • M16x1,5o IC60° - M13x1,0o • M16x1,5o IC60° - G3/8i	1030050 1030051 1030076			
• G1/4o IC60° - M14x1,00 • G1/4o IC60° - SN G1/4 • G1/4o IC60° - G1/4o • G1/4o IC60° - G1/4i • G1/4o IC60° - SN G1/4 NPSM	1030052 1030073 1030075 1030077 1030099			
• G1/4 NPSMo IC60° - M14x1,0 • G1/4 NPSMo IC60° - SN G1/4 NPSM SC60° • G1/4 NPSMo IC60° - G1/4 NPSMo • G1/4 NPSMo IC60° - G1/4 NPSMi	1030093 1030085 1030091 1030092	on request		
Swivel joint - PN350 - DN6 - double ball bearing mounted - stainless steel • G3/80 IC60° - G3/80 Swivel joint - PN160 - DN25 - double ball bearing mounted - stainless steel (no • G10 - G10	1030107 fig.) 1030180 s			
Other versions on request				



HOSES





HP-hoses • LP-hoses					
	ltem	Item no.1	Price		
	HP-hose - textile - sealing cone - stainless steel • PN260 - DN3 - 7,5m - 2x SN G1/4 NPS SC • PN260 - DN4 - 5,0m - 2x SN G1/4 SC • PN260 - DN4 - 7,5m - 2x SN M16x1,5 SC • PN260 - DN5 - 7,5m - 2x SN G1/4 SC • PN260 - DN6 - 5,0m - 2x SN G1/4 SC • PN260 - DN6 - 5,0m - 2x SN G3/8 SC • PN420 - DN10 - 10,0m - 2x SN M16x1,5 SC	2300859 s 2300857 s 2300801 s 2300821 s 2300853 s 2300854 s 2300829 s			
	Twin hose - textile - sealing cone - stainless steel PN270/10 - DN4/6 • 7,5m - 2x SN M16x1,5 SC - 2x SN G1/4 SC • 15,0m - 2x SN M16x1,5 SC - 2x SN G1/4 SC • 20,0m - 2x SN M16x1,5 SC - 2x SN G1/4 SC • 7,5m - 2x SN G1/4 NPS SC - 2x SN G1/4 SC	2300806 s 2300807 s 2300805 s 2300889 s	on request		
	Return hose • PN260 - DN8 - 1,0m - SN G3/8 SC - kink protection • PN20 - DN9 - 1,0m - SN G3/8 SC	0036801 s 0036804 s			
	Return hose - Spray-Pack • PN20 - DN9- 0,87m - SN G3/8 SC - 180° elbow Other versions on request	0036802 s			



CLEANING MAINTENANCE







CLEANING • MAINTENANCE



Cleaning • Maintenance			
	ltem	Item no.1	Price
	Tip cleaning box , 11 pieces, flat brush, cleaning needles, circular brushes, special fluid, functional window box	0073812 s	
	Tip cleaning flat brush plastic	0073811 s	
	Tip cleaning needles , 12 pieces, size 10, plastic box	0073801 s	on request
Tak O	Flushing valve - PN250 - DN10 - 3x G3/8i - stainless steel For easy switching from spraying to cleaning, compact design, double sided pressure while spraying with several spray guns	1019900 s	
	Options: Actuator - pneumatic, single acting with magnetic valve - for flushing valve - PN250 - DN10 - 3x G3/8i (no fig.) Actuator - pneumatic, double acting with end	1019901 s	
	position feedback - for flushing valve - PN250 - DN10 - 3x G3/8i (no fig.)	1019902 s	
Transmitted Sale Rechampempers Luthricane Sale Sale Sale Sale Sale Sale Sale Sal	Anti-freeze lubricant for air driven motors (no fig.) • 1000 ml Lubricant for piston pumps • 250 ml • 5000 ml (canister)	0999805 s 0999801 s 0999803 s	
To Part de State de S	Other versions on request		





MODULAR SPRAYING SYSTEMS



Combine whatever you want!

With our modular system we are able to offer to you exactly the spray system you need. Another advantage is, that you can change or upgrade nearly every single part of the system. Giving you greater flexibility at lower costs, if you want to upgrade your spray system. You can receive perfect support from our specialist dealers and our direct support hotline.





MODULAR SPRAYING SYSTEMS









MODULAR SPRAYING SYSTEMS



			Spray-Packs
ltem	Item no.1	Price	
 Spray-Pack consisting of: Piston pump (incl. wall bracket, lubricant) Double air regulator 0 - 10 bar Suction cup 6L - plastic Safety plate, hose and accessories 			
• Spray-Pack 12-50	4301250		
• Spray-Pack 20-35 • Spray-Pack 20-50	4302035 4302050		
Spray-Pack 30-20Spray-Pack 30-35Spray-Pack 30-50	4303020 4303035 4303050		Q Q II
• Spray-Pack 40-20 • Spray-Pack 40-35	4304020 4304035		4.1
• Spray-Pack 45-50	4304550		
• Spray-Pack 75-50	4307550		
• Spray-Pack 30-80 • Spray-Pack 33-110	4303080 4333110		
Options for Spray-Packs: • Trolley "Standard"	2005018 s	on request	
 Suction cup 6L - stainless steel Suction cup 6L - incl. agitator type AR 0,75Nm - 0,35kW Check valve for suction cup 6L, 25L and 30L Return hose PN20 - DN9 	3141802 s 3141816 s 1028010 s		
• 0,87m - SN G3/8 SC - 180° elbow • Twin hose - textile - PN270/10 - DN4/6 - stainless steel	0036802 s		
 7,5m - 2x SN M16x1,5 SC - 2x SN G1/4 SC 15,0m - 2x SN M16x1,5 SC - 2x SN G1/4 SC HP-hose PN 260 - DN5 	2300806 s 2300807 s		1
 7,5m - 2x SN G1/4 SC HP-filter PN500 - DN9 - 114 - BV 2x G3/8ο IC60° - In/Out* HP-filter insert - Ø 27 - 114 - 40 up to 530 μm* Inline filter PN250 - M16x1,5ο IC60° - lateral conn. G1/4i Item no. 3130520 with swivel joint Item no. 3130520 with ball valve Plug in filter long for inline filter - 50 up to 300 μm* 	2300821 s page 47 page 48 3130520 s 3130540 s 3130560 s page 46		
Special options for Spray-Packs 30-80 and 33-110: • Trolley type 630 - lockable steering rollers (p. 20) • Suction cup 25L - stainless steel • Suction cup 30L - plastic	2005060 s 3141829 s 3141823 s		
For all Spray-Packs usable airless- and air-combispray guns (p. 54) and tips (p. 60)			
* as required			



MODULAR SPRAYING SYSTEMS

Double membrane pumps



ltem	Item no.1	Price
Double membrane pump corrosion-resistant version, • Pressure ratio (i) 1:1 • Material pressure Pmax 8 bar • Fluid output (Q) 24 l/min • Input / output connection G1/2i • Air section = Aluminium / Bronze • Material section = Stainless steel / PTFE / PP		
Delivery scope: Pump, control valve, manual	7000200 s	on request
 Double membrane pump Pressure ratio (i) 1:1 Material pressure Pmax 8 bar Fluid output (Q) 24 l/min Input / output connection G1/2i Air section = Aluminium / Bronze Material section = Aluminium / PTFE / PP 		
Delivery scope: Pump, control valve, manual	7000100 s	

Barrel pumps



ltem	Item no.1	Price
Barrel pump - stainless steel - EPDM for G2 - i = 1:1 - G3/4 - 8 bar - 35 l/min for max. 200L container - incl. barrel screw conn.	4702040 s	
Barrel pump - stainless steel - EPDM for G2 - i = 3:1 - G1/2 - 24 bar - 24 l/min for max. 200L container - incl. barrel screw conn.	4702041 s	
Barrel pump - steel - NBR for G2 - i = 5:1 - G1/2 - 40 bar - 15 l/min for max. 60L container - incl. barrel screw conn.	4702035 s	on request
Barrel screw connection - G2 - PP	4702036 s	
Other versions on request		

LINES



BASIC

- · Low material volume
- · Small series finishing
- Fast change of material
- Airless or Air-Combi





IBK price advantage

SPRAY-PACK

- Optimized material consumption
- Reduced cleaning fluid needed
- Direct filling with suction cup
- Airless or Air-Combi





Approved IBK quality



- Medium material volume
- Up to 30L material container
- Integrated elevator, manual
- Airless or Air-Combi













MASTER LINE

- Medium to high material volume
- Pneumatic elevator, easy material changing
- ECO-LINE agitator, 85% energy saving
- Airless or Air-Combi

Ready for use systems



LINE

- High material volume
- High pressure application
- High viscosity
- Airless spray system

Perfectly configured





EXTREME

- Mobile system for massive corrosion protection e.g. offshore, steel- and machine-manufacturing
- Airless spray system





Basic Line Airless





Consisting of:

- Piston pump 30-20 incl. wall bracket and lubricant
- Air regulator manometer 0 up to 10 bar 7,2 plug G3/80
- Inline filter PN250 2x M16x1,5o lateral connection G1/4i * (p. 46)
- Plug in filter long 50 up to 300µm * (p. 46)
- Suction tube Ø 22 420 SN M36x2 SC60° SF * (p. 25)
- HP-hose PN260 DN4 7,5m 2x SN M16x1,5 SC * (p. 68)
- Airless spray gun IBK T245 PN250 incl. tip holder * (p. 54)
- Reversible tip * (p. 60)
- Bracket "Light version" P20 up to P50

* as required



ltem no.	Price
8003020	on request

Basic Line Air-Combi





Consisting of:

- Piston pump 30-20 incl. wall bracket and lubricant
- Twin air regulator 2 manometers 10 bar 7,2 plug G3/80 G1/40 IC60°
- Inline filter PN250 2x M16x1,5o lateral connection G1/4i * (p. 46)
- Plug in filter long 50 up to 300µm * (p. 46)
- Suction tube Ø 22 420 SN M36x2 SC60°- SF * (p. 25)
- Twin hose PN270/10 DN4/6 7,5m 2x SN M16x1,5 SC / G1/4 SC * (p. 68)
- Air-Combi spray gun IBK 5000 PN250 swivel joint filter short - connections * (p. 54)
- Air-Combi tip SAC * (p. 60)
- Bracket "Light version" P20 up to P50



ltem no.	Price
8013020	on request





Spray-Pack Line Airless



Consisting of:

- Spray-Pack 40-35
- HP-filter PN500 DN9 114 BV 2x G3/8o IC60°- In/Out * (p. 47)
- Filter insert Ø 27 114 40 up to 530 µm * (p. 48)
- HP-hose PN 260 DN4 7,5m 2x SN M16x1,5 SC * (p. 68)
- Return hose PN20 DN9 0,87m SN G3/8 SC 180° elbow
- Airless spray gun IBK T245 PN250 incl. tip holder * (p. 54)
- Reversible tip * (p. 60)
- · Trolley "Standard"







Spray-Pack Line Air-Combi

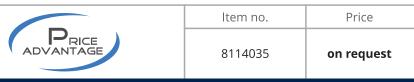
Price

on request



Consisting of:

- Spray-Pack 40-35
- HP-filter PN500 DN9 114 BV 2x G3/8o IC60°- In/Out * (p. 47)
- Filter insert Ø 27 114 40 up to 530 µm * (p. 48)
- Twin hose PN 270/10 DN4/6 7,5m 2x SN M16x1,5 SC / G1/4 SC * (p. 68)
- Return hose PN20 DN9 0,87m SN G3/8 SC 180° elbow
- Air-Combi spray gun IBK 5000 PN250 swivel joint filter short - connections * (p. 54)
- Air-Combi tip SAC * (p. 60)
- Trolley "Standard"
- * as required









Advance Line Airless





Consisting of:

- Piston pump 30-50 incl. wall bracket and lubricant
- Air regulator manometer 0 up to 10 bar 7,2 plug G3/80
- HP-filter PN500 DN9 114 BV 2x G3/8o IC60° In/Out * (p. 47)
- Filter insert Ø 27 114 40 up to 530µm * (p. 48)
- Suction tube Ø 22 420 SN M36x2 SC60° SF * (p. 25)
- HP-hose PN260 DN4 7,5m 2x SN M16x1,5 SC * (p. 68)
- Airless spray gun IBK T245 PN250 incl. tip holder * (p. 54)
- Reversible tip TR93R * (p. 60)
- Manual elevator mobile 25kg 480 stroke

* as required



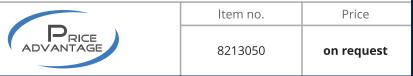
Advance Line Air-Combi





Consisting of:

- Piston pump 30-50 incl. wall bracket and lubricant
- Twin air regulator 2 manometers 10 bar 7,2 plug G3/8o G1/4o IC60°
- HP-filter PN500 DN9 114 BV 2x G3/8o IC60° In/Out * (p. 47)
- Filter insert Ø 27 114 40 up to 530µm * (p. 48)
- Suction tube Ø 22 420 SN M36x2 SC60° SF * (p. 25)
- Twin hose PN270/10 DN4/6 7,5m 2x SN M16x1,5 SC / G1/4 SC *
- (p. 68)
- Air-Combi spray gun IBK 5000 PN250 swivel joint filter short connections * (p. 54)
- Air-Combi tip SAC * (p. 60)
- Manual elevator mobile 25kg 480 stroke







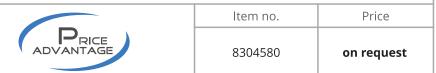
Master Line Airless



Consisting of:

- Piston pump 45-80 incl. wall bracket and lubricant
- Air regulator manometer 0 up to 10 bar 7,2 plug G3/80
- HP-filter PN500 DN9 114 BV 2x G3/8o IC60° In/Out * (p. 47)
- Filter insert Ø 27 114 40 up to 530 μm * (p. 48)
- Suction tube Ø 22 420 SN M36x2 SC60° SF * (p. 46)
- HP-hose PN 260 DN4 7,5m 2x SN M16x1,5 SC * (p. 68)
- Airless spray gun IBK T245 PN250 incl. tip holder * (p. 54)
- Reversible tip TR93R * (p. 60)
- Container lid 30L foldable Ø 350 80 Ø 55 Ø 28,5 G3/8i mounting
- ECO-Line agitator type 3Nm, Ø 14 Ø 16, Ø 16 300, VS Ø 125 Ø 16 CW Ø 80 HN Ø 100 4x M5
- Mounting plate P20 up to P110 container lid
- Pneumatic elevator incl. safety control mobile 50kg 425 stroke

* as required





Master Line Air-Combi



Consisting of:

- Piston pump 45-80 incl. wall bracket and lubricant
- Twin air regulator 2 manometers 10 bar 7,2 plug G3/80 G1/40 IC
- HP-filter PN500 DN9 114 BV 2x G3/8o IC60° In/Out * (p. 47)
- Filter insert Ø 27 114 40 up to 530 µm * (p. 48)
- Suction tube Ø 22 420 SN M36x2 SC60° SF * (p. 46)
- Twin hose PN 270/10 DN4/6 7,5m 2x SN M16x1,5 SC / G1/4 SC * (p. 68)
- Air-Combi spray gun IBK 5000 PN250 swivel joint filter short - connections * (p. 54)
- Air-Combi tip SAC * (p. 60)
- Container lid 30L foldable Ø 350 80 Ø 55 Ø 28,5 G3/8i mounting
- ECO-Line agitator type 3Nm, Ø 14 Ø 16, Ø 16 300, VS Ø 125 Ø 16 CW Ø 80 HN Ø 100 4x M5
- Mounting plate P20 up to P110 container lid
- Pneumatic elevator incl. safety control mobile 50kg 425 stroke









Heavy Line Airless





Consisting of:

- Piston pump 75-160 incl. wall bracket and lubricant
- Air regulator manometer 0 up to 12 bar 2x G1i
- HP-filter PN500 DN9 114 BV 2x G3/8o IC60° In/Out * (p. 47)
- Filter insert Ø 27 114 40 up to 530µm * (p. 48)
- Suction hose DN25 1,7m SN M36x2 SC60° 90° 900 90° SF * (p. 26)
- HP-hose PN420 DN10 10m 2x SN M16x1,5 SC * (p. 68)
- Airless spray gun IBK T480 PN500 incl. tip holder * (p. 54)
- 11/16" Reversible tip PN500 * (p. 60)
- Trolley "Type 630"









Extreme Line Airless

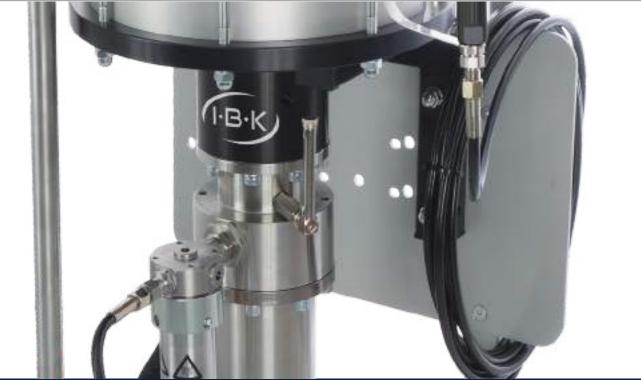


Consisting of:

- Piston pump 63-320 incl. wall bracket and lubricant
- Air regulator manometer 0 up to 12 bar 2x G1i
- HP-filter PN500 DN9 114 BV 2x G3/8o IC60° In/Out * (p. 47)
- Filter insert Ø 27 114 40 up to 530µm * (p. 48)
- Suction hose DN25 1,7m SN M36x2 SC60° 90° 900 90° SF * (p. 26)
- HP-hose PN420 DN10 10m 2x SN M16x1,5 SC * (p. 68)
- Airless spray gun IBK T480 PN500 incl. tip holder * (p. 54)
- Reversible tip TR93R * (p. 60)
- Trolley "Type 630"







2K/3K APPLICATION SYSTEMS





Individual concepts for 2K/3K spray systems for complex requirements. We can gladly advise you about the possibilities for your business.









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Marine & Offshore

Certificate number: SMS.W.II./27643/03/C.0

www.verister.com

RECOGNITION FOR BV MODE II SCHEME

Ingenieur-Büro Kötter GmbH

Sprockhövel - GERMANY

Summary of the range of the recognition which is detailed in the subsequent page(s):

Production of turning, milling and laser cutting parts from bars and plates. Material: Carbon-, low alloy, alloy, stainless steel, copper, bronze and special alloy.

This certificate is issued to affect that Bureau Verilas Marine & Offshore has performed, at the above company's request and in compliance with the requirements of NR320, a satisfactory assessment of the manufacturing facilities and associated quality procedures related to the range of the recognition.

This certificate will expire on: 22 Aug 2024

For BUREAU VERITAS, ALBV ESSEN, on 23 Feb 2021, Joachim Altmeppen





This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page;s) are compiled with. This certificate is issued within the scope of the General Conditions of Bureau Veritas Marine & Offshore available on the internet site www.veristar.com. Any Person not a party to the contract purposes in this discounter its delivered may not assert a claim against Bureau Veritas Marine & Offshore for any leability arising out of errors or consistent which may be contained in said document, or for errors of adjacement, fault or registed committed by personnel of the Society or of its Agenta in establishment or issuance of this document, and in connection with any exhibits it may provide.

The electronic version is available at: http://www.verstamb.com/veristamb/sp/viewPublicPdfRecognition.jap?id=ddc8itjen

BV Mod. Ad.E 807 June 2017

This certificate consists of 2 page(s)

LEGAL NOTICES



1. General information

All our deliveries, services and offers are based exclusively on these terms and conditions. They also apply to all future contracts, orders and other services, even if they are not explicitly agreed anew. Deviating terms — also in other general terms and conditions — only apply if they are legally mandatory or have been explicitly agreed with us. Any objection by our contracting partner in reference to their own terms and conditions is hereby refuted.

2. Offer, order and contract conclusion

- 2.1 We are bound to our offers for 2 weeks, unless a different period is stated or the offer is indicated as "non-binding".
- 2.2 Spoken or telephone orders, agreements, addendums, amendments and/or subsidiary agreements are only valid if confirmed in writing.
- 2.3 The contract content is in the following order: (1) the content of an individual contract signed by both contracting parties, (2) the spoken agreements confirmed in writing made during or before contract conclusion, (3) our written order confirmation, (4) our offer/order letter with all documents (e.g. service descriptions, drawings, sketches), (5) these general contract conditions, (6) the specifications in our latest sales documents regarding material descriptions, raw materials, aids, equipment, production processes etc.
- 2.4 Our stated measurements and specification descriptions are binding. Later changes entitle us to extend the delivery periods accordingly and to request additional recompense for any extra costs incurred by the changes.

3. Prices

Our prices are fixed prices. Freight, packaging and freight insurance premiums are additional. If the VAT rate changes, we are entitled to adjust the price accordingly.

4. Delivery and services

- 4.1 Delivery periods or schedules that are not explicitly stated as binding or confirmed are approximate periods and schedules. Binding/fixed schedules are extended appropriately under the conditions of clause 2.4.
- 4.2 If we cannot perform on time for reasons for which we are not responsible, we are free from our fulfilment obligations for as long as these circumstances last. This applies in particular for faulty supplies of raw materials, aids and equipment, machine damage, operatonal or transport disruptions, force majeure, strikes and official measures. The delivery periods are extended accordingly, unless a later delivery is not feasible for our contracting partner or they entitle us to withdraw from the contract.

5. Payments

- 5.1 Our invoices are due for payment within 30 days (net without deductions), for payments within 8 days from the invoice date a 2% discount can be deducted. Any supplementary transaction charges are borne by the payer.
- 5.2 As from the due date, the amount in arrears shall be charged with standard bank interest.
- 5.3 It is only possible to offset against our claims or for the right of retention to be exerted in case of undisputed or legally confirmed counterclaims.

6. Deliveries

- 6.1 If the contractor has taken over the shipment (obligation to send), the risk of coincidental damage or destruction passes over to the contractee as soon as the delivery leaves the plant/warehouse, even if freight paid delivery is agreed.
- 6.2 If delivery items cannot be sent or not in time after manufacturing due to circumstances for which the contractee is responsible, the risk of coincidental damage or destruction passes over to the contractee from the point in time when the notice of dispatch readiness was sent.
- 6.3 With the arrival of the delivery vehicle at the destination and readiness for unloading, the shipment duty of the contractor is fulfilled; the goods are unloaded and stored at the expense and risk of the contractee.

7. Reservation of title

7.1 Supplied goods remain our property until they are paid for in full – for deliveries to fully-qualified traders until the fulfilment of all obligations pertaining to the business relationship. If the goods are resold in line with proper business management, the following extended reservation of title applies: with the resale, our contractee assigns all claims including all claims from their extended reservation of title towards their

- customers/buyers to us. We accept this assignment.
- 7.2 In case of payment arrears, we are entitled to demand the return of the goods. If the contractee does not return the goods to us within a reasonable deadline, we are entitled to seize the goods and to access the warehouse or other premises of the contractee. The same applies if the contractee interferes impermissibly with the goods supplied under reservation of title and especially does not sell them through legitimate business channels.
- 7.3 The contractee is obliged not to dispose elsewhere of the assigned claims including through the extended reservation of title. In case of seizures, confiscations or other disposals/access by third parties regarding the supplied goods or the assigned claims, the contractor must inform us immediately.

8. Obligation to inspect and give notice of defects

- 8.1 The contractee shall inspect the goods supplied by us as soon as possible after delivery
- 8.1.1 and give immediate written notice of evident defects and transport damage, at the latest within a limitation period of 3 working days
- 8.1.2 as well as notify concealed defects in writing within the limitation period.
- 8.2 Before the contractee process the supplied/manufactured goods further, especially installs them in other products, they must test a suitable number of items as to whether they conform to the properties agreed in the contract and, in case there is any doubt, inform us immediately in writing. We must be given the opportunity to check the test result in order to take suitable measures. The purpose is to prevent consequential damages and/or product liability claims from customers or the customers of contractee customers.
- 8.3 If the supplied goods or those in which the supplied goods are installed are to be exported abroad especially outside of the EU the obligation to inspect and give notice of defects of the contractee also extends to all properties and regulations that could trigger product liability abroad.
- 8.4 After expiry of the limitation period of 6 months, notification of defects is excluded.

9. Warranty

- 9.1 We offer a warranty through repair or a replacement, at our discretion. If we fail to provide a repair or replacement, the contractee can request the annulment of the contract.
- 9.2 Further claims, especially damage compensation due to non-fulfilment or consequential damages, are excluded, unless they are caused by the intent or gross negligence of the contractor.
- 9.3 Consequential damages are excluded in particular if the contractee processes supplied parts further or has installed them in other machines/products without checking beforehand whether the supplied items are suitable to be installed/processed further or have the properties set out in the contract, or without informing us in case of doubt, cf. clause 8.3.
- 9.4 We are entitled to refuse any warranty or damage compensation claims if the contractee or third parties have modified the supplied items of their own accord, repaired them or otherwise interfered with them. This does not apply if we have not met our obligations for repair or replacement after expiry of a suitable deadline.
- 9.5 If operating instructions are supplied, the warranty conditions stated therein apply.

10. Indemnity against liability

In our internal relationship, the contractee indemnifies us as the contractor against any third-party claims, also and especially damage compensation claims by end users or customers regarding the supplied, resold and/or installed products in relation to product liability. This also applies to consequential damages that a customer of the contractee or a customer of a customer of the contractee claims.

11. Severability clause

If individual clauses are or become invalid, this does not affect the validity of the remaining clauses. The General Terms and Conditions of the company Ingenieur-Büro Kotter GmbH otherwise remain in effect and the invalid clause is to be replaced with a permissible clause that comes the closest to the purpose of the contract.

12. Place of fulfilment, place of jurisdiction

- 12.1 The place of fulfilment is 45549 Sprockhövel.
- 12.2 The place of jurisdiction, depending on the dispute, is the District Court Hattingen/Regional Court Essen. The law of the Federal Republic of Germany applies.

LEGEND / SHORTCUTS

Measurements All sizes without size indication in mm

L = Length W = Width H = Height

Thread shortcuts i = Inner / female thread (after measurement)

o = Outer / male thread (after measurement)

IC = Inner cone (after measurements, declaration in angle °)
SC = Sealing cone (after measurement, declaration in angle °)

SN = **Swivel nut** (ahead measurement)

AA-Spray guns • Valves LN = Locking nut / back nut

NN = Nozzle nut (socket for nozzle)

Agitators ID = Insert diameter (for foldable stirring elements)

AB = Agitator blade angled

AD = Agitator disc

ADF = Agitator disc foldable

SP = Stirring paddle

SPG = Stirring paddle with guard

VS = Vortex spiral

VSG = Vortex spiral with guard

Terms BV = Ball valve

CCW = **Counter clockwise** (view: motor > stirring element)

CV = Check valve

CW = **Clockwise** (view: motor > stirring element)

DM = **Diameter** (in mm)

GLY = Glycerin

HM = Hardened metal HN = Hole pattern

HP = High pressure (standard max. 250bar)LP = Low pressure (standard max. 20bar)

NP = Nominal pressure (in bar)
OP = Opening pressure (in bar)

SF = **Suction filter** (filter grade in μ m or mesh)

TO = Tube - outer diameter

General marks conn. = connection

incl. = inclusive

no fig. = without picture