

**FOOD  
INDUSTRY  
ACCESSORIES**

**CATALOGUE 2022/2023**



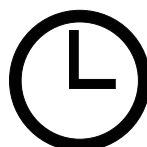
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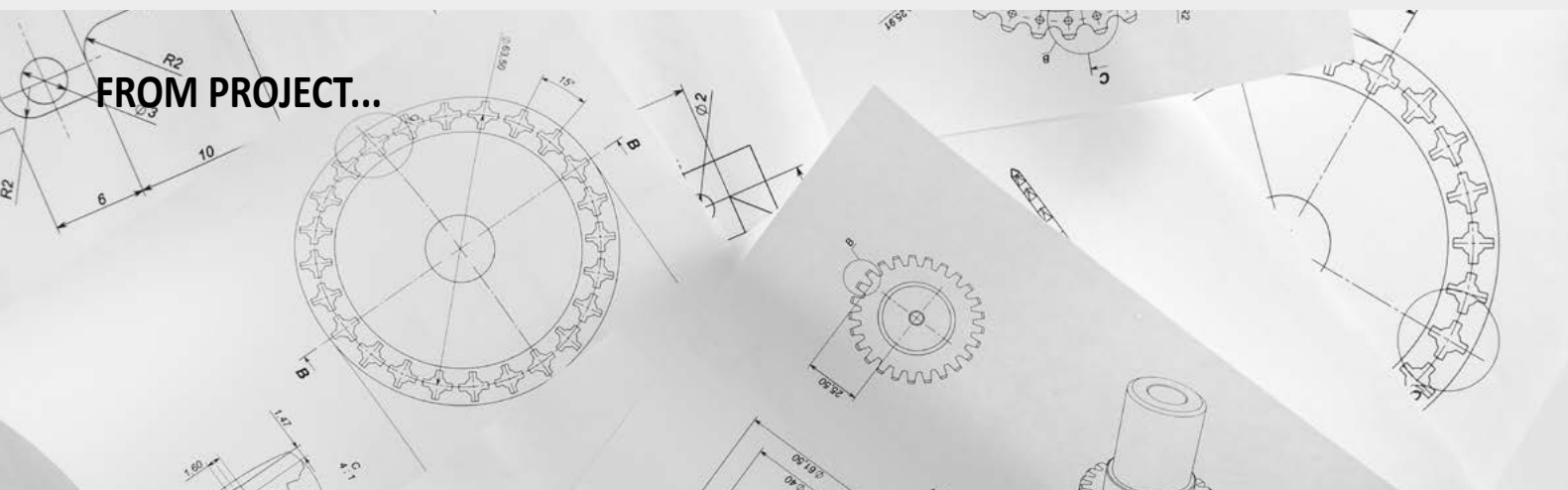
## Opening hours

Monday	8:15- 16:15
Tuesday	8:15- 17:15
Wednesday	8:15- 16:15
Thursday	8:15- 16:15
Friday	8:15- 15:15
Saturday	closed
Sunday	closed

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# ABOUT US



## FROM PROJECT...

Since 1994 we provide products for Polish market and successfully create brand known for high quality and reliability. Already in 2000 we established our own high pressure machines line, which earned trust among our Customers. Simultaneously we developed partnership with leading high pressure accesories manufacturers, which gave us access to latest technologies in the industry.

In the following years, with use of CAD engineering programmes we implemented engineering design, enabling us to create disruptive products. Application of CAM programmes in parallel with CAD made our production more flexible. In our team we have Machine Building and Materials Engineer, whereby our constructions and machines are made based on latest engineering knowledge.

Our ownership of DMG Mori turning and milling machine, gives us possibility of precise elements turning.

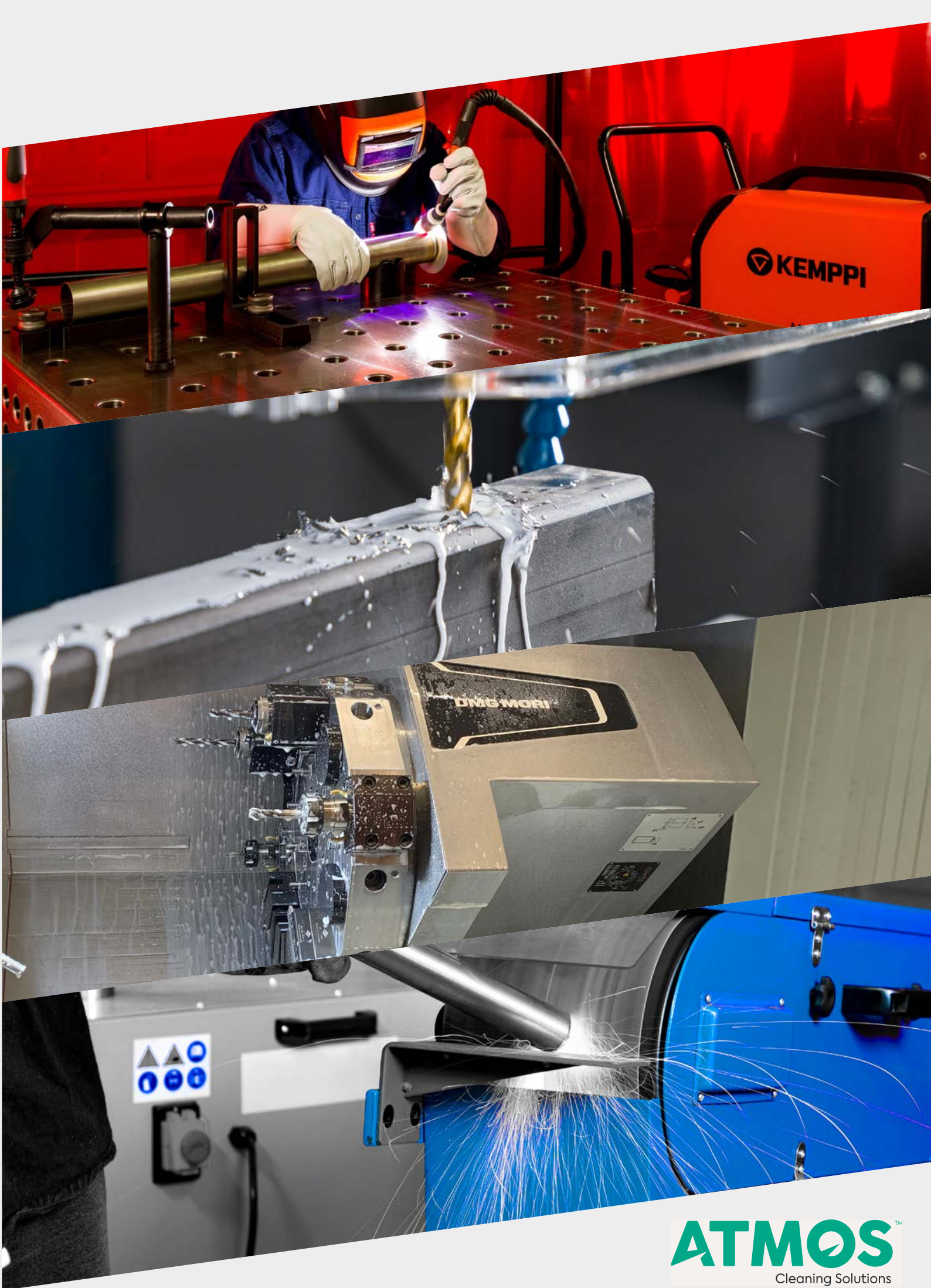
We also handle stainless steel welding with TIG and MIG system as well as steel profiles cutting, polishing and processing, which enables us to create all kinds of frames and stainless steel proflies constructions that can be used for high pressure aggregate building.

Our speciality is acid-resistant and stainless metal processing. We stock our Customers in self service car wash accesories such as ceiling booms, boom extensions, lance holders and brush holders, which are made by us.



## ...TO FINISHED PRODUCT







# COLOUR CODING OF ZONES

## WHAT IS COLOUR CODING OF ZONES?

It is a way of maintaining cleanliness and organisation in food processing facilities, among others, as well as a means of protecting food. Colour coding makes it much easier to comply with the HACCP system and reduces the risk of food recall.

## FOR WHOM?

Colour coding of zones will be used in many industries. This can be assigning a specific colour to a workstation, as well as coding of separate zones to protect food products from allergen transfer.



## BENEFITS:

- prevents cross-contamination (allergens, pathogens),
- facilitates compliance with hygiene standards,
- reduces the risk of product recalls,
- control measure - helps traceability,





# GUNS AND SPARE PARTS

## LOW-PRESSURE GUNS

### WATER FROM THE NETWORK 12- 24 BAR



The advantage of low-pressure guns is the ability to adjust the spray angle, from long full spray to conical spray pattern.

#### RB35

- light,
- provides hand protection,
- completely covered with plastic, which ensures cleanliness,



Catalogue no.	Name	Material	Max. pressure	Max. temperature	Flow	Inlet
500 535 500	RB35	brass	12 bar	50°C	50 l/min	1/2" F swiv.
500 535 510	RB35	stainless steel	12 bar	80°C	50 l/min	1/2" F swiv.

#### RB65

- light,
- provides hand protection,
- completely covered with plastic, which ensures cleanliness,
- durable for long use,
- swivel joint at the input prevents hose from twisting,



Catalogue no.	Name	Material	Max. pressure	Max. temperature	Flow	Inlet
500 565 00	RB65	brass	24 bar	90°C	60 l/min	1/2" F swiv.
500 565 10	RB65	brass	24 bar	90°C	100 l/min	1/2" F swiv.



## LOW-PRESSURE GUNS

### WATER FROM THE NETWORK 12- 24 BAR



#### ST-1200

- solid,
- durable,
- possibility of regulating the stream,

Catalogue no.	Name	Material	Max. pressure	Max. temperature	Flow	Inlet
201 200 500	ST-1200	brass	24 bar	50°C	100 l/min	1/2" F
201 200 520	ST-1200	stainless steel	24 bar	50°C	100 l/min	1/2" F

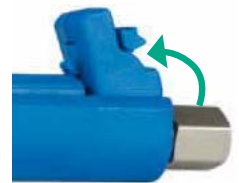
# MEDIUM PRESSURE GUNS FOR CENTRAL WASHING SYSTEMS WITH WORKING PRESSURE 24-80 BAR



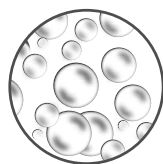
## ST-3225

ST 3225 is a perfect gun for food industry with low weight and high flow.

- available in low and high pressure versions,
- meets the highest hygiene requirements in food processing industry,
- body and other elements made of stainless steel,
- low weight- only 745 g,
- cover made of plastic approved for contact with food according to the standard 1935/2004/EG,
- contains a valve closing delay system,
- low-pressure has the option of locking the open position,
- contains SERVO SYSTEM which lowers the force needed to hold the trigger by 90% and the force needed to press the trigger of the gun by 40%,



# MEDIUM PRESSURE GUNS FOR CENTRAL WASHING SYSTEMS WITH WORKING PRESSURE 24-80 BAR

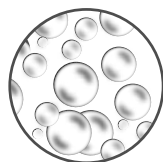


## ST-3225

Catalogue no.	Name	Material	Max. pressure	Max. temperature	Flow	Inlet	Outlet	Damper
203 225 550	ST-3225 HP	stainless steel	60 bar	100°C	120 l/min	1/2" F swiv.	quick coupler ST-3100	yes
203 225 540	ST-3225 HP	stainless steel	60 bar	100°C	120 l/min	1/2" F swiv.	quick coupler ST-3100	no
203 225 640	ST-3225 LP	stainless steel	24,5 bar	100°C	120 l/min	1/2" F swiv.	quick coupler ST-3100	no
203 225 650	ST-3225 LP	stainless steel	24,5 bar	100°C	120 l/min	1/2" F swiv.	quick coupler ST-3100	yes

## ST-3100

- made of plastic approved for contact with food according to the standard 1935/2004/EG,
- solid and durable construction,
- designed for foaming and rinsing in the food industry,
- contains a valve closing delay system protecting pump and water installation,
- large internal section of the gun provides abundant foam,



Catalogue no.	Name	Max. pressure	Max. temperature	Flow	Inlet	Outlet
203 100 805	ST-3100	60 bar	150°C	100 l/min	1/2" F swiv.	ST-200 joint
203 100 840	ST-3100	60 bar	150°C	100 l/min	1/2" F	3/8" F
203 100 820	ST-3100	60 bar	150°C	100 l/min	1/2" F	ST-200 joint



MEDIUM PRESSURE GUNS  
FOR CENTRAL WASHING SYSTEMS  
WITH WORKING PRESSURE 24-80 BAR

ST-2725

- contains SERVO SYSTEM which lowers the force needed to hold the trigger by 90% and the force needed to press the trigger of the gun by 40%,
- cover made of plastic approved for contact with food according to the standard 1935/2004/EG,
- body made of stainless steel,
- swivel joint at the input, prevents hose from twisting,
- contains a valve closing delay system protecting pump and water installation,



Catalogue no.	Name	Material	Max. pressure	Max. temperature	Flow	Inlet	Outlet
202 725 550	ST-2725	stainless steel	80 bar	150°C	80 l/min	1/2" F swiv.	quick coupler ST-200



# HIGH PRESSURE GUNS

## 80 - 350 BAR

### ST-2700 KW

- made of plastic approved for contact with food according to the standard 1935/2004/EG,
- contains a valve closing delay system protecting pump and water installation,
- body and valve made of stainless steel,



Catalogue no.	Name	Material	Max. pressure	Max. temperature	Flow	Inlet	Outlet
202 700 575	ST-2700 KW	stainless steel	310 bar	150°C	45 l/min	3/8" F swiv.	KW connector

### ST-2720

- made of plastic approved for contact with food according to the standard 1935/2004/EG,
- contains a valve closing delay system protecting pump and water installation,
- body and valve made of stainless steel,



Catalogue no.	Name	Material	Max. pressure	Max. temperature	Flow	Inlet	Outlet
202 720 550	ST-2720	stainless steel	125 bar	150°C	80 l/min	1/2" F swiv.	ST-3100 joint

# HIGH PRESSURE GUNS

80 - 350 BAR

## ST-2615

- made of plastic approved for contact with food according to the standard 1935/2004/EG,
- contains a valve closing delay system protecting pump and water installation,



Catalogue no.	Name	Material	Max. pressure	Max. temperature	Flow	Inlet	Outlet
202 615 525	ST-2615	stainless steel	350 bar	150°C	45 l/min	3/8" F swiv.	KW joint





## ST-510



INOX

Catalogue no.	Name	Material	Max. pressure	Max. temperature	Flow	Inlet	Outlet
200 510 500	ST-510	stainless steel	25 bar	50°C	70 l/min	1/2" F	1/2" F

## CHEMICAL GUNS ACCESSORIES

ST-510 spray gun + lance 300 mm



ST-510 spray gun + lance 600 mm



ST-510 spray gun  
+ telescopic lance 1000-2000 mm



Catalogue no.	Name	Material	Lance length [mm]	Max. pressure	Max. temperature	Flow	Inlet	Outlet
200 510 560	ST-510 spray gun + lance 300 mm	stainless steel	300	25 bar	50°C	70 l/min	1/2" F	1/2" F
200 510 550	ST-510 spray gun + lance 600 mm	stainless steel	600	25 bar	50°C	70 l/min	1/2" F	1/2" F
200 510 600	ST-510 spray gun + telescope lance	stainless steel	1000- 2000	25 bar	50°C	70 l/min	1/2" F	1/2" F

Buy only original spare parts to ensure smooth operation of all accessories.

Catalogue no.	Name	Material	Compatibility
<b>201 200 430</b>	Repair kit ST-1200	mosiądz	201 200 500



Catalogue no.	Name	Material	Compatibility
<b>201 200 420</b>	Repair kit ST-1200	stal nierdzewna	201 200 520



Catalogue no.	Name	Compatibility
<b>202 725 490</b>	Valves complete	202 725 550



Catalogue no.	Name	Compatibility
<b>203 100 400</b>	Repair kit (seal kit with piston)	203 100 805 203 100 840 203 100 820





# BALL VALVES



## BALL VALVES IN STAINLESS STEEL COVER



95°C

50 BAR

- the ball valve has a quick coupler for connecting lances ,
- entirely made of stainless steel,
- solid and durable construction with a cover made of 3 mm thick sheet metal,

Catalogue no.	Name	Material	Inlet	Outlet
<b>08.02.01.042</b>	Ball valve in stainless steel cover	stainless steel	1/2" M	quick-connector socket ST-200 in plastic cover



Catalogue no.	Name	Material	Inlet	Outlet
<b>08.02.01.043</b>	Ball valve in stainless steel cover	stainless steel	quick-connector nipple ST-200	quick-connector socket ST-200 in plastic cover



Catalogue no.	Name	Material	Inlet	Outlet
<b>08.02.01.044</b>	Ball valve in stainless steel cover	stal nierdzewna	1/2" F swiv.	quick-connector socket ST-200 in plastic cover



# BALL VALVES

## BALL VALVES IN PLASTIC COVER



- made of stainless steel covered with plastic,
- very light and handy,

95°C

60 BAR



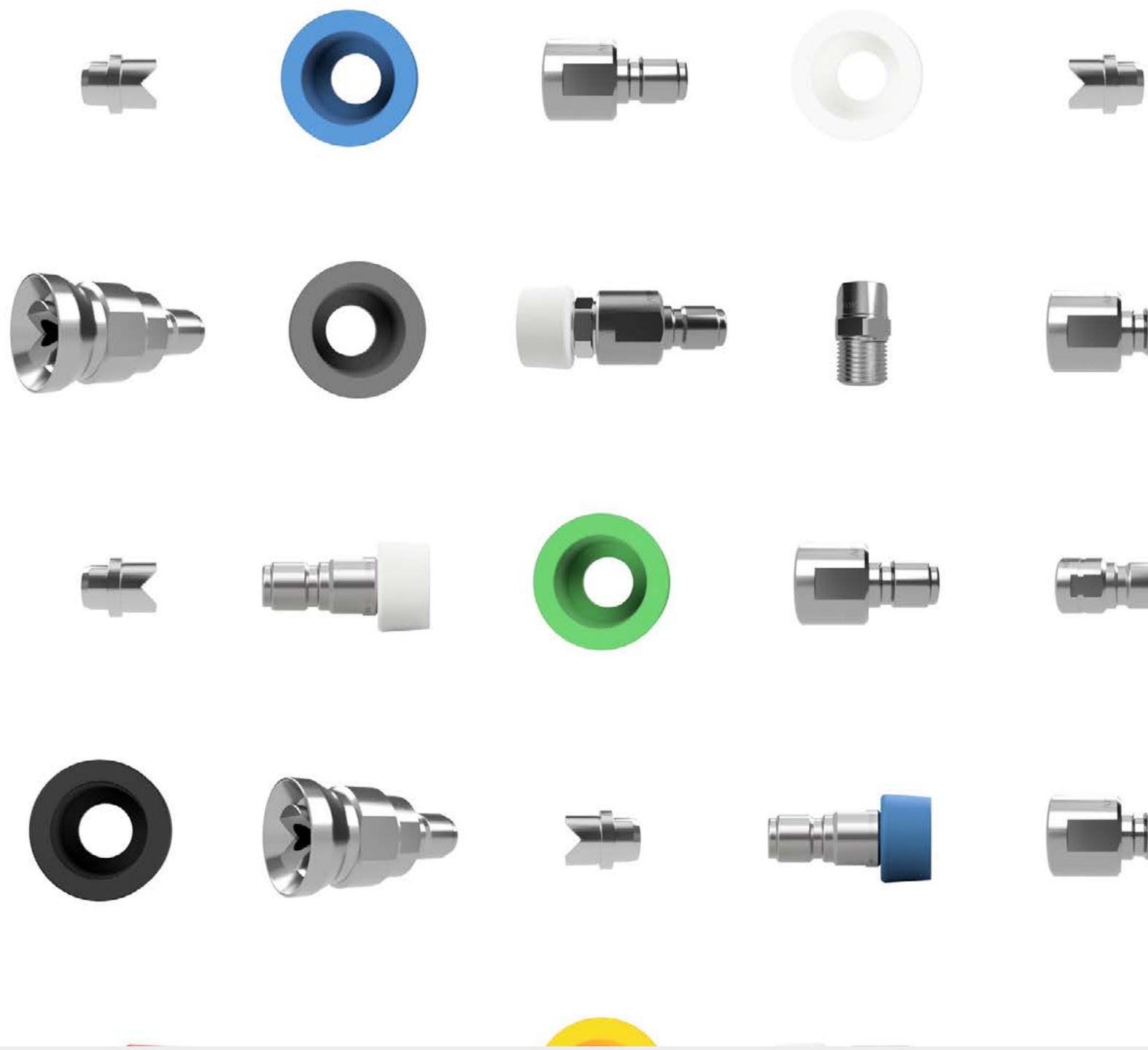
Catalogue no.	Name	Material	Inlet	Outlet
203 100 250	Ball valve in plastic cover	Stainless steel	1/2" F	1/2" F



Catalogue no.	Name	Material	Inlet	Outlet
203 100 260	Ball valve in plastic cover	Stainless steel	1/2" F	Quick connector ST-200 covered with plastic



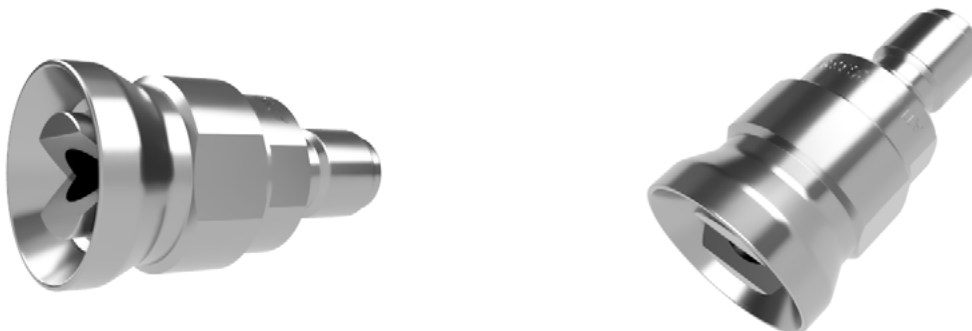
Catalogue no.	Name	Material	Inlet	Outlet
203 100 250	Ball valve in plastic cover	Stainless steel	1/2" M	Quick connector ST-200 covered with plastic



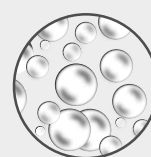
**LANCES FOR FOAMING, RINSING AND DISINFECTING**



## SHORT FOAM LANCES



Catalogue no.	Name	Nozzle	Material	Inlet	Max. temperature
8.02.01.019	Short foam lance	Tip S	acid-resistant stainless steel (316)	connector plug ST-200	100°C
8.02.01.033	Short foam lance	Tip L	acid-resistant stainless steel (316)	connector plug ST-200	100°C



## EXCHANGEABLE NOZZLES

The quality of the foam largely depends on the correct choice of foam nozzle. The interchangeable nozzle system ensures optimum foam by being able to adapt the nozzle to the water pressure. We suggest the following nozzle selection:

- water pressure 4-10 bar - L size nozzle,
- water pressure 10-15 bar - size M nozzle,
- water pressure 15-25 bar - size S nozzle,

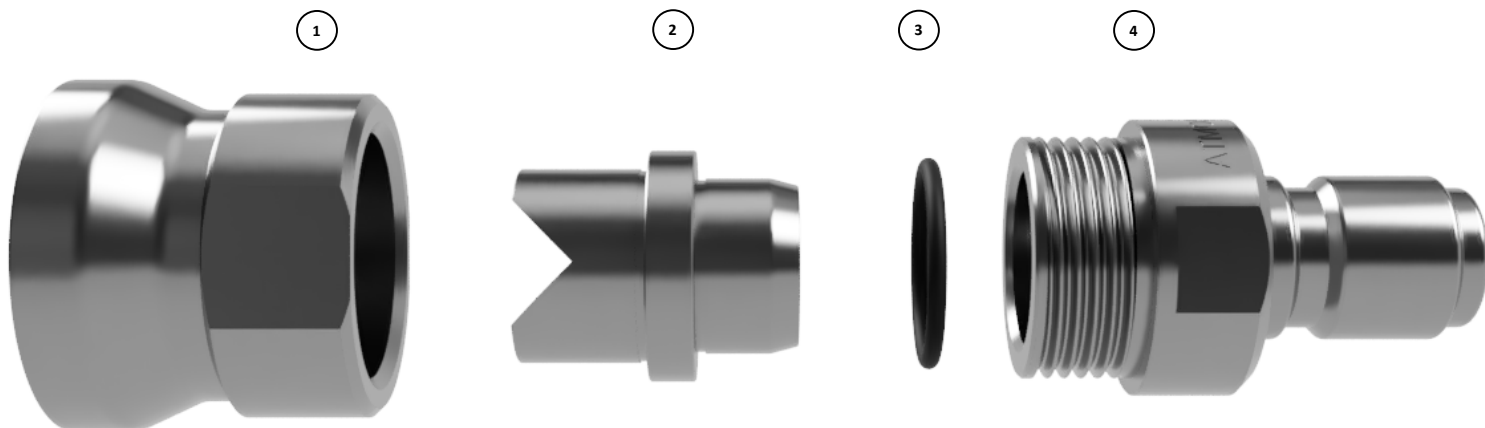
An additional advantage of this system is the easy replacement of individual components without having to replace the entire foam lance.



Catalogue no.	Name	Material	Max. temperature
8.02.01.003	TIP S	acid-resistant stainless steel (316)	100°C



Catalogue no.	Name	Material	Max. temperature
8.02.01.005	TIP L	acid-resistant stainless steel (316)	100°C



No. on picture	Catalogue no.	Name	Material	Max. temperature
1	8.02.01.002	Foam TIP nozzle protection	acid-resistant stainless steel (316)	100°C



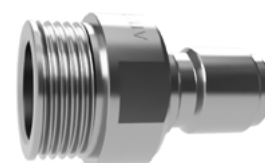
No. on picture	Catalogue no.	Name	Material	Max. temperature
2	8.02.01.003	TIP S	acid-resistant stainless steel (316)	100°C
2	8.02.01.005	TIP L		



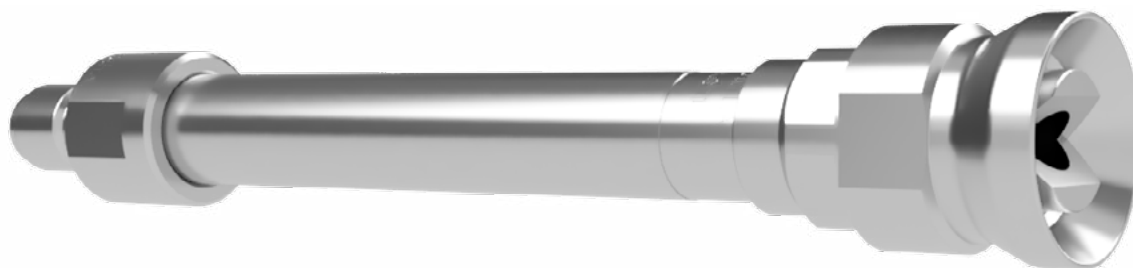
No. on picture	Catalogue no.	Name	Material
3	8.02.01.026	ORING 19 mm x 2 mm	FKM



No. on picture	Catalogue no.	Name	Material	Max. temperature
4	8.02.01.007	TIP nozzle socket for short foam lance	acid-resistant stainless steel (316)	100°C

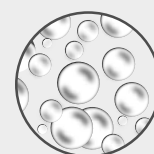


## LONG FOAM LANCES



### LONG LANCE 230 MM

Catalogue no.	Name	Material	Inlet	Max. temperature
8.02.01.019	Long lance 230 mm, TIP S	acid-resistant stainless steel (316)	connector plug ST-200	100°C
8.02.01.034	Long lance 230 mm, TIP L	acid-resistant stainless steel (316)	connector plug ST-200	100°C



## EXCHANGEABLE NOZZLES

The quality of the foam largely depends on the correct choice of foam nozzle. The interchangeable nozzle system ensures optimum foam by being able to adapt the nozzle to the water pressure. We suggest the following nozzle selection:

- water pressure 4-10 bar - L size nozzle,
- water pressure 10-15 bar - size M nozzle,
- water pressure 15-25 bar - size S nozzle,

An additional advantage of this system is the easy replacement of individual components without having to replace the entire foam lance.



Catalogue no.	Name	Material	Max. temperature
8.02.01.003	TIP S	acid-resistant stainless steel (316)	100°C



Catalogue no.	Name	Material	Max. temperature
8.02.01.005	TIP L	acid-resistant stainless steel (316)	100°C



No. on picture	Catalogue no.	Name	Material	Max. temperature
1	8.02.01.002	Foam TIP nozzle cover	acid-resistant stainless steel (316)	100°C



No. on picture	Catalogue no.	Name	Material	Max. temperature
2	8.02.01.003	TIP S	acid-resistant stainless steel (316)	100°C
2	8.02.01.005	TIP L		



No. on picture	Catalogue no.	Name	Material	Max. temperature
3	8.02.01.026	ORING 19 mm x 2 mm	FKM	100°C



No. on picture	Catalogue no.	Name	Material	Max. temperature
4	8.02.01.001	230 mm foam lance with nozzle socket	acid-resistant stainless steel (316)	100°C







## SHORT LANCES

Catalogue no.	Name	TIP	Material	Inlet	Max. temperature
8.02.01.033	Foam lance, short	Foam nozzle 1/2" M	acid-resistant stainless steel (316)	Connector plug ST-200	100°C



Catalogue no.	Name	Material	Inlet	Max. temperature
8.02.01.013	Foam nozzle	acid-resistant stainless steel (316)	1/2" F	100°C

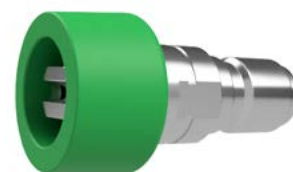


Catalogue no.	Name	Material
020 001 147	Nozzle cover	plastic



Catalogue no.	Name	Material	Inlet	Max. temperature
8.02.01.008	Connector plug ST-200	acid-resistant stainless steel (316)	1/2" F	100°C

# LANCES FOR RINSING AND DISINFECTING



## SHORT LANCES

Name	Material	Inlet	Max. temperature	Colour	Catalogue no.
Short lance	acid-resistant stainless steel (316)	1/4" NPT	100°C	blue	8.02.01.027
				red	8.02.01.028
				green	8.02.01.029
				yellow	8.02.01.030
				grey	8.02.01.031
				white	8.02.01.032

Name	Material	Colour	Catalogue no.
Rinsing nozzle cover	plastic	white	020 001 124
		blue	020 001 149
		red	020 001 121
		green	020 001 122
		yellow	020 001 123
		grey	020 001 157



HOW TO CHOOSE THE RIGHT NOZZLE CAN BE FOUND ON PAGE 58

Catalogue no.	Name	Material
<b>Selecting the right nozzle on page 59</b>	Rinsing nozzle	acid-resistant stainless steel (316)



Catalogue no.	Name	Material	Inlet
<b>8.02.01.011</b>	Connector plug ST-200 1/4" F NPT	acid-resistant stainless steel (316)	1/2" M BSP





## LANCES WITHOUT ISOLATION

Name	Material	Inlet	Max. temperature	Colour	Catalogue no.
Lances without isolation, 300 mm	acid-resistant stainless steel (316)	ST-200 connector	100°C	blue	8.02.01.020
				red	8.02.01.021
				green	8.02.01.022
				yellow	8.02.01.023
				grey	8.02.01.024
				white	8.02.01.025



HOW TO CHOOSE THE RIGHT NOZZLE CAN BE FOUND ON PAGE 58



Name	Material	Colour	Catalogue no.
Rinsing nozzle cover	plastic	white	020 001 124
		blue	020 001 149
		red	020 001 121
		green	020 001 122
		yellow	020 001 123
		grey	020 001 157



Catalogue no.	Name	Material
Selecting the right nozzle on page 59	Rinsing nozzle	acid-resistant stainless steel (316)



Catalogue no.	Name	Material	Inlet
8.02.01.011	ST-200 connector 1/4" F NPT	acid-resistant stainless steel (316)	1/2" M BSP

## ISOLATED LANCE ST-29 500 MM



INOX

Catalogue no.	Name	Material	Total lenght	Isolation lenght	Thread	Max. temperature	Max. pressure
200 029 305	Isolated lance ST-29	stainless steel	500 mm	300 mm	1/4" M	100°C	400 bar

## ISOLATED TUBE ST-29 900 MM



INOX

Name	Material	Total lenght	Isolation lenght	Thread	Max. temperature	Max. pressure	Colour	Catalogue no.
Isolated lance ST-29	stainless steel	900 mm	300 mm	1/4" M	150°C	400 bar	blue	200 029 315
							yellow	200 029 316
							green	200 029 317
							red	200 029 318

## ISOLATED TUBE ST-007



INOX

Catalogue no.	Name	Material	Total lenght	Isolation lenght	Thread	Max. temperature	Max. pressure
070 005 010	Isolated lance ST-007, blue	stainless steel	500 mm	300 mm	1/4" M	150°C	400 bar



HOW TO CHOOSE RIGHT NOZZLE CAN BE FOUND ON PAGE 58



YOU CAN CHOOSE THE COLOUR OF THE NOZZLE COVER ON PAGE 30



# NOZZLE COVERS



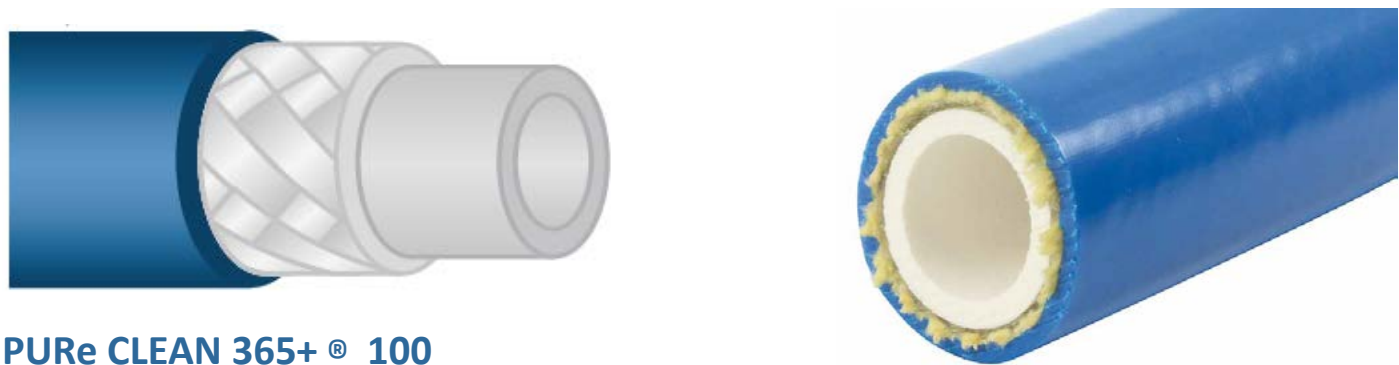
Name	Catalogue no.	Colour	Material
Nozzle cover	020 001 149	blue	plastic
	020 001 121	red	
	020 001 122	green	
	020 001 123	yellow	
	020 001 157	grey	
	020 001 124	white	



PURe CLEAN 365+

PUReClean 365+ 40 and 100 high pressure hoses are designed for use in the food industry and to meet the highest hygiene requirements in food establishments.

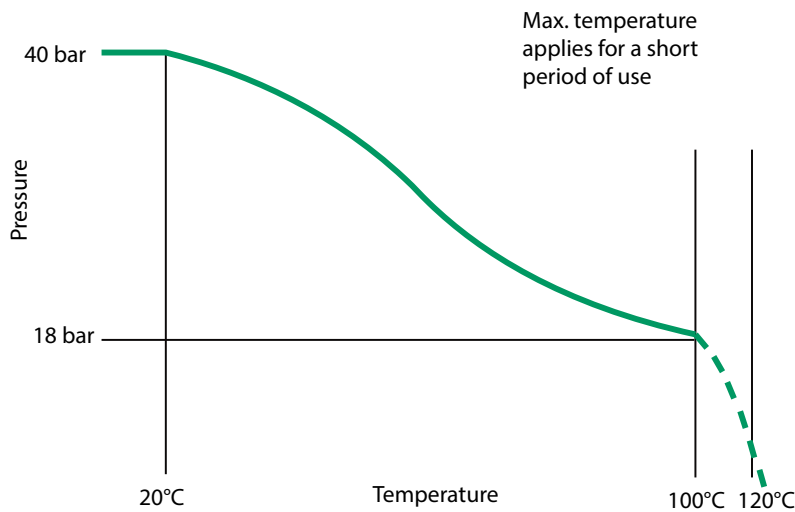
- suitable for contact with food according to 1935/2004/EG and Nr. 10/2011,
- light and flexible,
- smooth, grease-resistant surface for easy hygiene,
- High-quality construction with durable synthetic material,
- stainless steel fittings,
- coating made of thermoplastic elastomer, braided synthetic material and PES,



PURe CLEAN 365+ ® 100

Catalogue no.	Name	Nominal diameter	Inner diameter		Diameter		Weight	Wall thickness
			inches	mm	inches	mm		
303 661 00	PURe CLEAN 365+ 100	12					0,3 kg/m	4,5 mm
			0,49	12,5	0,85	21,6		

Catalogue no.	Name	°C	Burst pressure		Pressure	
			20	100	20	100
303 661 00	PURe CLEAN 365+ 100	70	200	50	40	18



PURe CLEAN 365+ ® 100

Catalogue no.	Lenght
477 056 602 59	2,5 m
477 056 610 9	10 m
477 056 615 9	15 m
477 056 620 9	20 m
477 056 625 9	25 m
477 056 630 9	30 m
477 056 635 9	35 m
477 056 640 9	40 m



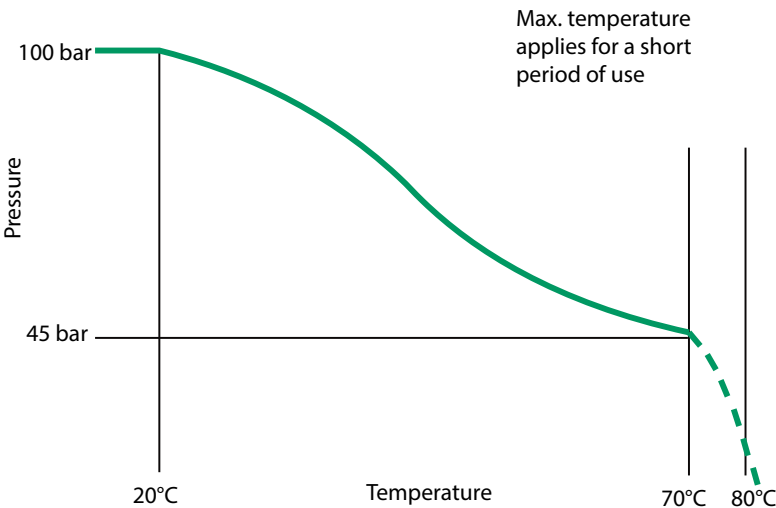
Threads on customer’s request  
(DKF:DKF, AGF:AGF, DKF:AGF)



PURe CLEAN 365+ ® 40

Catalogue no.	Name	Nominal diameter	Inner diameter		Diameter		Weight	Wall thickness
			inches	mm	inches	mm		
303 660 40	PURe CLEAN 365+ 40	12					0,3 kg/m	4,5 mm
			0,49	12,5	0,85	21,6		

Catalogue no.	Name	°C	Burst pressure		Pressure	
			20	70	20	70
303 660 40	PURe CLEAN 365+ 40	20	300	110	100	45
		70				





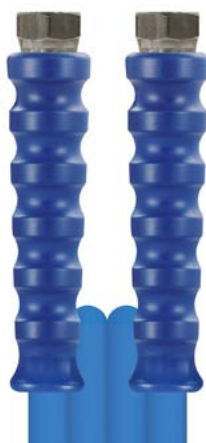
## PURe CLEAN 365+ ® 40 COLOUR OPTIONS



### PURe CLEAN 365+ ® 40

PURe Clean 365+ hoses with fittings :

- fittings made of stainless steel,
- smooth, grease- and stain-resistant surface,
- coating made of thermoplastic elastomer, braided synthetic material and PES,
- designed for industrial foaming in the food industry,
- suitable for contact with liquid foodstuffs,
- suitable for water and mixture of water and standard/usual cleaning detergents,



Threads on customer's request  
(DKF:DKF, AGF:AGF, DKF:AGF)

Catalogue no.	Lenght
303 660 40 02	2 m
303 660 40 05	5 m
303 660 40 10	10 m
303 660 40 15	15 m
303 660 40 20	20 m
303 660 40 25	25 m
303 660 40 30	30 m
303 660 40 35	35 m



Threads on customer's request  
(DKF:DKF, AGF:AGF, DKF:AGF)

Catalogue no.	Lenght
476 256 202 59	2,5 m
476 256 210 9	10 m
476 256 215 9	15 m
476 256 220 9	20 m
476 256 225 9	25 m
476 256 230 9	30 m
476 256 235 9	35 m
476 256 240 9	40 m

# HOSES

Catalogue no.	Lenght
476 356 402 59	2,5 m
476 356 410 9	10 m
476 356 415 9	15 m
476 356 420 9	20 m
476 356 425 9	25 m
476 356 430 9	30 m
476 356 435 9	35 m
476 356 440 9	40 m



Threads on customer's request  
(DKF:DKF, AGF:AGF, DKF:AGF)



Catalogue no.	Lenght
476 456 202 59	2,5 m
476 456 210 9	10 m
476 456 215 9	15 m
476 456 220 9	20 m
476 456 225 9	25 m
476 456 230 9	30 m
476 456 235 9	35 m
476 456 240 9	40 m



Threads on customer's request  
(DKF:DKF, AGF:AGF, DKF:AGF)



# HOSE ACCESSORIES

## FITTING ACCESSORIES FOR HYDRAULIC PRESS



Name	Material	DN	Thread	Catalogue no.
Fittings with 60° cone seal	stainless steel	12	AGR 1/2"	8.02.01.054
			DKR 1/2"	8.01.04.006



Name	Material	DN	Thread	Catalogue no.
Fittings with sealing on the front	stainless steel	12	AGF 1/2"	8.02.01.055
			DKF 1/2"	316 430A



Catalogue no.	Name	Material	DN
<b>313 329</b>	Crimp cartridge PURE Clean, universal	stainless steel	12

## EMERGENCY HOSE FITTING SYSTEM

The system is designed for companies that do not have their own hydraulic press for hoses fitting. Very quick repair of damaged hose allows you to continue work immediately. It is a temporary solution, which should be replaced by a hydraulic fitting after about 50 hours of work. The advantage of the system is the possibility of multiple use.



Catalogue no.	Name	Material	Inlet	Max. pressure	Angle of cone	DN
<b>329 412 129</b>	Emergency hose fitting	stainless steel	1/2" M	50 bar	60°	12



Catalogue no.	Name	Material	Inlet	Max. pressure	Angle of cone	DN
<b>329 512 129</b>	Emergency hose fitting	stainless steel	1/2" F	50 bar	60°	12



**You will need kit with female and kit with male thread for hose repair.**

## HOSE BEND RESTRICTORS

The restrictors protect against excessive bending of the hose at the ends.

Name	Material	Colour	Catalogue no.
Bend restrictor	elastomer	blue	020 000 710
		yellow	020 000 718
		green	020 000 719
		red	020 000 716
		grey	020 000 717



## OSŁONA KOŃCÓWKI WĘŻA KARBOWANA

Name	Material	Colour	Catalogue no.
Bend restrictor	elastomer	blue	309 165
		yellow	309 185
		red	309 175
		grey	309 105
		black	308 905



Hose bend restrictors are made of elastomer which is resistant to chemicals.



## SUPERBALL

NEW

High pressure cleaning hose with sliding balls for easy handling.

They reduce friction, make it easier to pull around the corner and prevent the hose from being blocked.

The free flow of water under the hose keeps it clean and hygienic. Low abrasion guarantees a long lifespan. Ideal for use when cleaning swimming pools.



Hose catalogue no.	Ball colour	Hose lenght	Outer diameter of the ball	Outer diameter of hose
329 191 240	blue	10 m	34 mm	12 mm
329 191 370		15 m		
329 191 490		20 m		
329 191 610		25 m		

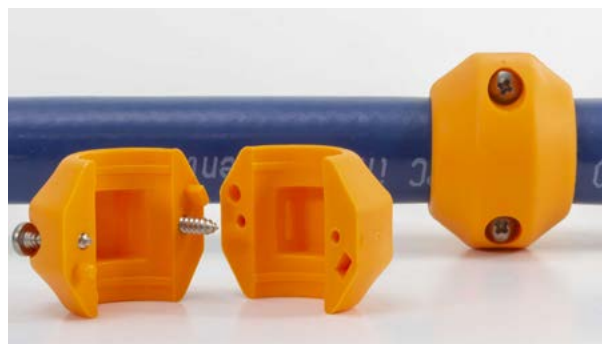


Hose catalogue no.	Ball colour	Hose lenght	Outer diameter of the ball	Outer diameter of hose
329 193 240	red	10 m	34 mm	17,5 mm
329 193 370		15 m		
329 193 490		20 m		
329 193 610		25 m		



Hose 2SN catalogue no.	Ball colour	Hose lenght	Outer diameter of the ball	Outer diameter of hose
329 193 240	orange	10 m	34 mm	15,8 mm
329 193 370		15 m		
329 193 490		20 m		
329 193 610		25 m		

The set consists of one ball and two stainless steel screws. The outer diameter of the ball is 34 mm. Suitable for hose with an external diameter of 19 mm.



Hose catalogue no.	Hose lenght	Quantity of balls
329 190 240	10 m	24
329 190 370	15 m	37
329 190 490	20 m	49
329 190 610	25 m	61

## STAINLESS STEEL HOSE REELS

- due to the high quality construction of the automatic spring-driven high pressure hose reels they are suitable for applications in service stations, garages, in the agriculture and in the building industry etc.
- easy to install in every place such as wall, ceiling, vehicle,
- all models offer a traction release. A quick pull unmakes the locking device.
- the hose reels are all equipped with a swivel ST-322. The swivels ST-322 are completely made out of stainless steel and have a ring as sealing element,
- fixed as well as swivelling brackets are available for all models. Both brackets and hose reels are made out of stainless steel V2A / AISI 304,
- due to the processed materials the hose reels are unhesitatingly suitable for the mediums water, water with cleaning detergent,
- according to directive 94/9/EG (Atex 95/100) the hose reels are suitable for applications in mining and explosion-proof areas,

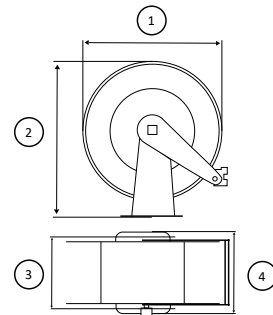
The maximum length of hose that can be wound on a reel depends on its outer diameter. Example values are given in the tables below.

### R+M 434

Catalogue no.	Name	Material	Diameter	Inlet	Outlet	Max. pressure	Max. temperature	Weight
763 434 30	R+M 434	stainless steel	12	1/2" F	1/2" F	300 bar	90°C	14 kg



Catalogue no.	1	2	3	4	Type	Hose diameter = hose length
763 434 30	460 mm	420 mm	140 mm	186 mm	01	17 mm = 21 m
					01	19,5 mm = 16 m
					01	22,0 mm = 14 m

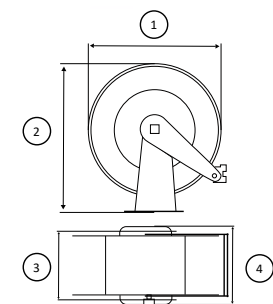


### R+M 534

Catalogue no.	Name	Material	Diameter	Inlet	Outlet	Max. pressure	Max. temperature	Weight
763 534 30	R+M 534	stainless steel	12	1/2" F	1/2" F	300 bar	90°C	19 kg



Catalogue no.	1	2	3	4	Type	Hose diameter = hose length
763 534 30	560 mm	510 mm	153 mm	203 mm	02	18,5 mm = 28 m
					02	20,0 mm = 26 m
					02	22,0 mm = 24 m

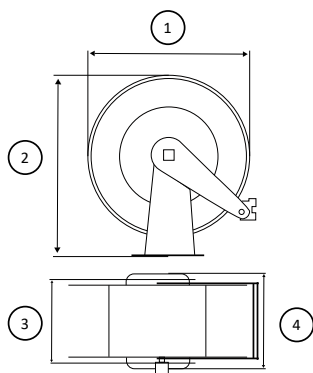


## STAINLESS STEEL HOSE REELS

### R+M 544



Catalogue no.	Name	Diameter	Material	Inlet	Outlet	Max. pressure	Max. temperature	Weight
<b>763 544 30</b>	R+M 544	12	stainless steel	1/2" F	1/2" F	300 bar	90°C	24 kg
<b>763 544 20</b>	R+M 544	19	stainless steel	1" F	1" F	100 bar	90°C	24 kg

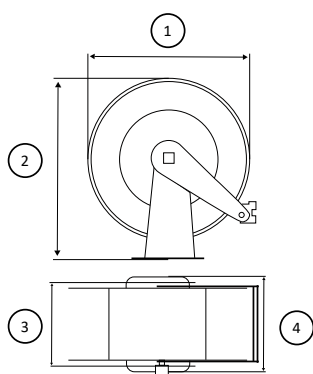


Catalogue no.	1	2	3	4	Typ	Hose diameter = hose length
<b>763 544 30</b>	573 mm	510 mm	218 mm	300 mm	03	22,0 mm = 30 m
					03	28,0 mm = 22 m
<b>763 544 20</b>	573 mm	510 mm	218 mm	300 mm	03	34,0 mm = 17 m

### R+M 564



Catalogue no.	Name	Średnica	Material	Inlet	Outlet	Max. pressure	Max. temperature	Weight
<b>763 564 30</b>	R+M 564	10	stainless steel	1/2" F	1/2" F	300 bar	90°C	30 kg



Catalogue no.	1	2	3	4	Type	Hose diameter = hose length
					04	22,0 mm = 60 m
<b>763 564 30</b>	578 mm	510 mm	399 mm	488 mm	04	30,0 mm = 40 m
					04	35,0 mm = 30 m

## ABS REELS WITH STAINLESS STEEL CONSTRUCTION

- due to the high quality construction of the automatic spring-driven high pressure hose reels they are suitable for applications in service stations, garages, in the agriculture and in the building industry etc,
- base frame stain. steel V2A / AISI 304. Reel made out of especially impact-resistant ABS plastic which is usually used for the manufacture of motorcycle helmets and in the automotive industry,
- easy to install in every place such as wall, ceiling, vehicle etc. Optionally there's available wall bracket which enables an easy mounting of the hose reel,
- all models offer a traction release. A quick pull unmakes the locking device,
- the hose reels are all equipped with a swivel ST-322. The swivels ST-322 are completely made out of stainless steel and have a ring as sealing element,
- due to the processed materials the hose reels are unhesitatingly suitable for the mediums water, water with cleaning detergent, oils, greases and air,

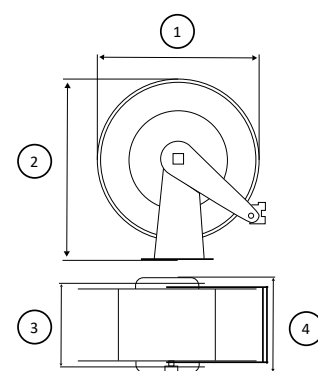


### R+M 532

Catalogue no.	Name	Diameter	Material	Inlet	Outlet	Max. pressure	Max. temperature	Weight
763 532 30	R+M 532	12	stainless steel, ABS	1/2" F	1/2" F	300 bar	90°C	19 kg



Catalogue no.	1	2	3	4	Typ	Hose diameter = hose length
763 532 30	560 mm	510 mm	153 mm	203 mm	02	18,5 mm = 28 m
					02	20,0 mm = 26 m
					02	22,0 mm = 24 m





Catalogue no.	Name	Material	Swivel	Compatibility
<b>763 430 06</b>	Wall swivel bracket	stainless steel V2A / AISI 304	80°	<b>763 434 30</b>
<b>763 530 06</b>	Wall swivel bracket	stainless steel V2A / AISI 304	80°	<b>763 534 30</b> <b>763 532 30</b>
<b>763 540 06</b>	Wall swivel bracket	stainless steel V2A / AISI 304	80°	<b>763 544 30</b> <b>763 544 20</b>



Catalogue no.	Name	Material	Compatibility
<b>763 430 02</b>	Mounting plate	stainless steel	<b>763 434 30</b>
<b>763 530 02</b>	Mounting plate	stainless steel	<b>763 534 30</b> <b>763 532 30</b>
<b>763 540 02</b>	Mounting plate	stainless steel	<b>763 544 30</b> <b>763 544 20</b>
<b>763 560 02</b>	Mounting plate	stainless steel	<b>763 564 30</b>



Catalogue no.	Name	Material	Max. pressure	Max. temperature	Height	Inlet
<b>200 322 523</b>	Swivel joint ST-322	stainless steel	300 bar	90°C	79,5 mm	1/2" F
<b>200 322 523</b>	Swivel joint ST-322	stainless steel	300 bar	90°C	79,5 mm	3/8" F



Catalogue no.	Name
<b>763 430 06</b>	Repair kit ST-322



# PUReClean365+ 40 FOOD HOSE WITH HOSE REELS

Name	Hose length	Material	Inlet	Outlet	Max. pressure	Max. temperature
PURe CLEAN hose on reel with fittings	15 m	stainless steel	1/2" F	1/2" F	300 bar	90°C
	20 m					
	25 m					
	30 m					



Name	Hose length	Material	Inlet	Outlet	Max. pressure	Max. temperature
PURe CLEAN hose on ABS reel with fittings	15 m	stainless steel, ABS	1/2" F	1/2" F	300 bar	90°C
	20 m					
	25 m					
	30 m					



It is possible to wind the hoses in other colours.



Buy only original spare parts to ensure that all accessories function smoothly.



Catalogue no.	Name	Material	Lenght	Max. pressure	Max. temperature	Compatibility
203 100 455	ST-200 coupling 1/2" F	stainless steel	50 mm	250 bar	150	compatible with central cleaning systems



Catalogue no.	Name	Material	Lenght	Max. pressure.	Max. temperature	Compatibility
203 100 656	Coupling ST-200 1/2" M	stainless steel	54 mm	250 bar	150	compatible with central cleaning systems



Catalogue no.	Name	Material	Lenght	Max. pressure	Max. temperature	Compatibility
203 100 460	Coupling ST-200 1/2" F	stainless steel	44 mm	250 bar	150	compatible with central cleaning systems



Catalogue no.	Name	Material	Lenght	Max. pressure	Max. temperature	Compatibility
203 100 655	Coupling ST-200 1/2" M	stainless steel	45 mm	250 bar	150	compatible with central cleaning systems



Catalogue no.	Name	Material
020 003 872	ST-200 coupling cover	plastic

Buy only original spare parts to ensure that all accessories function smoothly.

Catalogue no.	Name	Material	Lenght	Max. pressure	Max. temperature	Compatibility
<b>08.02.01.008</b>	Connector 1/2" F	stainless steel	50 mm	250 bar	150	compatible with central cleaning systems



Catalogue no.	Name	Material	Lenght	Max. pressure	Max. temperature	Compatibility
<b>08.02.01.009</b>	Connector ST-200 1/2" M	stainless steel	50 mm	250 bar	150	compatible with central cleaning systems



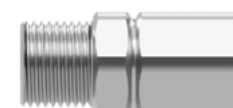
Catalogue no.	Name	Material	Lenght	Max. pressure	Max. temperature	Compatibility
<b>08.02.01.010</b>	Connector ST-200 1/4" F	stainless steel	50 mm	250 bar	150	compatible with central cleaning systems



Catalogue no.	Name	Material	Lenght	Max. pressure	Max. temperature	Compatibility
<b>08.02.01.011</b>	Connector ST-200 1/4" F NPT	stainless steel	50 mm	250 bar	150	compatible with central cleaning systems



Catalogue no.	Name	Material	Max. pressure	Max. temperature	Compatibility
<b>200 340 010</b>	Złącze obrotowe 1/2 F - 1/2 M	stainless steel	350 bar	90	compatible with central cleaning systems



Buy only original spare parts to ensure that all accessories function smoothly.



Catalogue no.	Name
551 502 42	O-ring



Catalogue no.	Name
551 502 43	O-ring



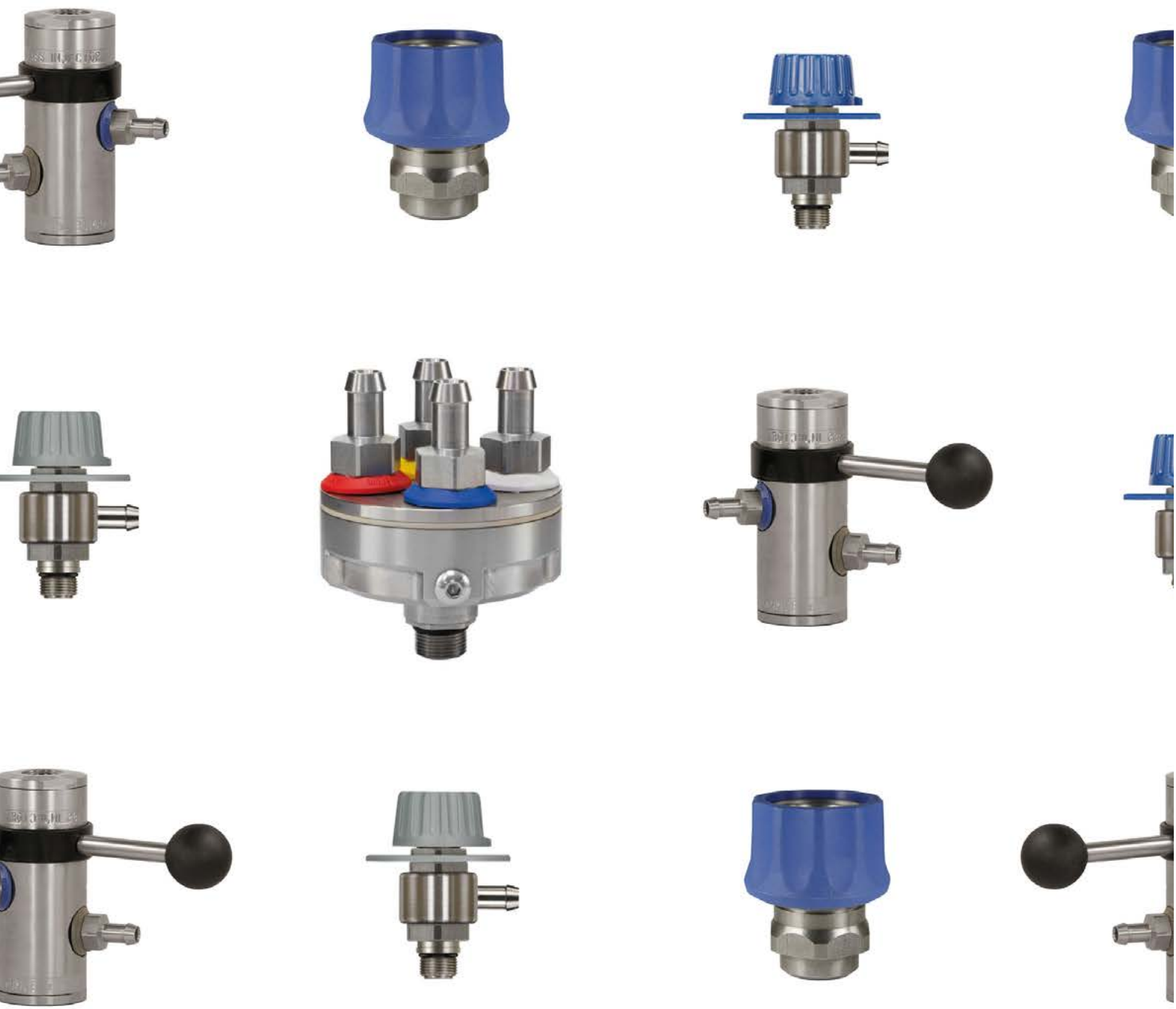
Catalogue no.	Name	Material
200 340 100	Repair kit ST-340	stainless steel

## WATER USAGE REDUCTION SYSTEM

Adapters with properly matched nozzles are screwed in wherever there are connections for water intake from the central cleaning system. The nozzles limit the water flow to what is necessary and required for the respective workplace.



Catalogue no.	Name	Material	Thread
575 49	Reduction	stainless steel	1/4 F : 1/2 M



## SATELLITES AND INJECTORS



# INJECTORS

## FOR LOW PRESSURE WATER SUPPLY FROM 3.5 BAR

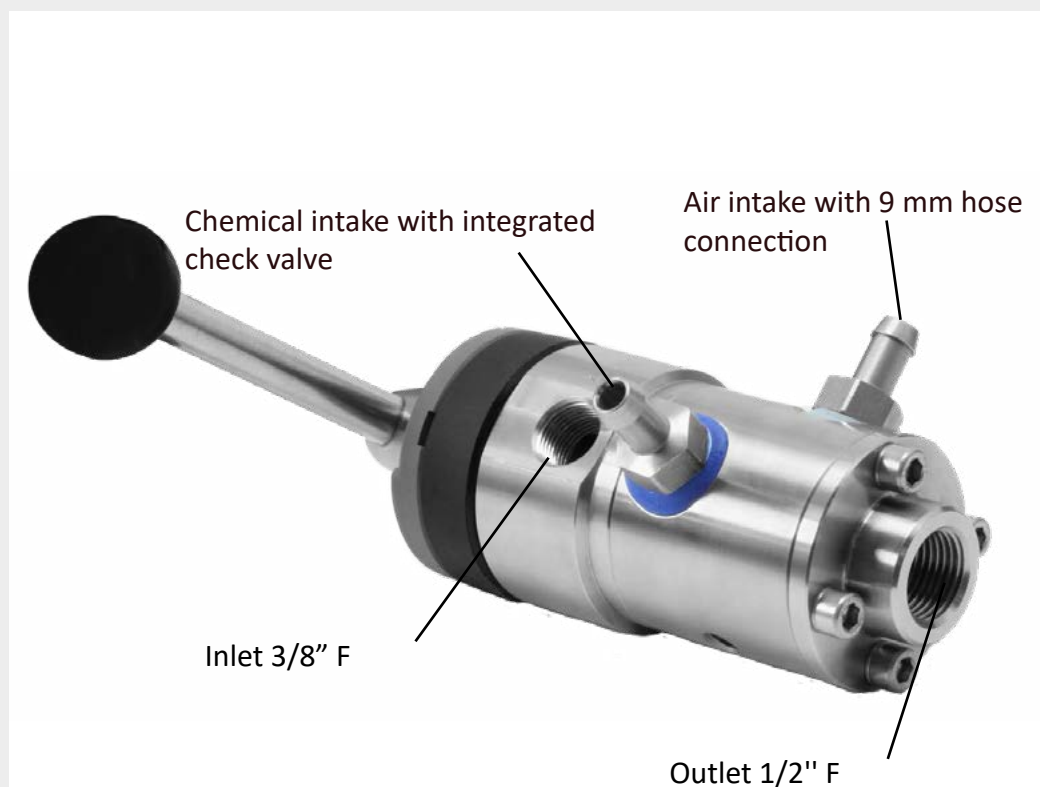
### ATMOS ST-162 INJECTOR



- Perfect foam, especially for low pressure applications,
- Suitable for one type of echemical and compressed air,
- Easy panel mounting configuration,
- Suitable for standard wall mounting,
- Improved foam properties by symmetrical air blow-in around the diffusor nozzle,
- Adjustable airflow with stainless steel nozzle inserts,

Catalogue no.	Name	Material	Inlet	Outlet	Max. pressure	Max. temperature
Depending on the length of the nozzle inserts	ST-162	stal nierdzewna	3/8" F	1/2" F	350 bar	100 °C

Catalogue no.	Nozzle
200 262 500	1,2 mm
200 262 501	1,3 mm
200 262 502	1,4 mm
200 262 503	1,5 mm
200 262 504	1,6 mm
200 262 505	1,7 mm
200 262 506	1,8 mm
200 262 507	1,9 mm
200 262 508	2,0 mm
200 262 509	2,1 mm
200 262 510	2,2 mm
200 262 511	2,3 mm
200 262 512	2,4 mm
200 262 513	2,5 mm
200 262 514	2,8 mm



# SATELLITE INJECTORS

## FOR CENTRAL WASHING SYSTEMS 15 - 30 BAR

### ST-164 SATELLITE

- possibility of alternating two chemicals that do not mix with each other throughout the process,
- made of stainless steel and special high performance plastics,
- designed to meet the highest hygiene requirements in food facilities,
- advanced technology in a compact design,
- easy and intuitive operation - one lever to switch between foaming, rinsing and disinfecting modes,
- elements made of plastic approved for contact with food in accordance with the 1935/2004/EG standard,
- available in 3 options of chemical concentration regulation system:  
1) smooth metering valve adjustment 2) nozzle adjustment 3) high accuracy smooth adjustment suitable for use with aggressive chemicals,
- generates very dense and abundant foam even at low chemical concentration,
- optional stainless steel compressed air regulator allowing very precise adjustment of the correct operating pressure,
- double check valve on the compressed air inlet,
- high quality manufacture for reliable operation,

### ST-164 INJECTORS WITH METERING VALVES ST-161

Catalogue no.	Name	Material	Inlet	Outlet	Max. pressure	Max. temperature	Flow
200 164 611	ST-164 satellite	stainless steel	3/8" F	1/2" F	350 bar	100 °C	80 l/min



### SATELLITE ST-164 WITH CHEMICALS REGULATING NOZZLES

Catalogue no.	Name	Material	Inlet	Outlet	Max. pressure	Max. temperature	Flow
200 164 591	ST-164 satellite	stainless steel	3/8" F	1/2" F	350 bar	100 °C	80 l/min



# SATELLITE INJECTORS

## FOR CENTRAL WASHING SYSTEMS 15 - 30 BAR

### ST-168 INJECTOR

- possibility of alternating two chemicals that do not mix with each other throughout the process,
- made of stainless steel and special high performance plastics,
- designed to meet the highest hygiene requirements in food facilities,
- advanced technology in a compact design,
- easy and intuitive operation - one lever to switch between foaming, rinsing and disinfecting modes,
- elements made of plastic approved for contact with food in accordance with the 1935/2004/EG standard,
- available in 3 options of chemical concentration regulation system: 1) smooth metering valve adjustment 2) nozzle adjustment 3) high accuracy smooth adjustment suitable for use with aggressive chemicals,
- generates very dense and abundant foam even at low chemical concentration,
- optional stainless steel compressed air regulator allowing very precise adjustment of the correct operating pressure,
- high quality manufacture for reliable operation,



Catalogue no.	Name	Material	Inlet	Outlet	Max. pressure	Max. temperature	Flow
168 600 600	ST-168 satellite	stal nierdzewna	3/8" F	1/2" F	350 bar	100 °C	80 l/min

# INJECTOR CONFIGURATION DIAGRAM



Injector catalogue no.	Chemicals inlet	Compressed air inlet	Standard equipment
168 500 000			<ul style="list-style-type: none"> <li>- chemical dosing nozzles</li> <li>- suction hose with filter</li> </ul>
168 500 500			<ul style="list-style-type: none"> <li>- suction hose with filter</li> </ul>
168 500 600			<ul style="list-style-type: none"> <li>- chemical dosing nozzles</li> <li>- suction hose with filter</li> <li>- ST-264 additional check valve</li> <li>- wall mounting</li> </ul>
168 600 000			<ul style="list-style-type: none"> <li>- suction hose with filter</li> </ul>
168 600 500			<ul style="list-style-type: none"> <li>- suction hose with filter</li> <li>- ST-264 additional check valve</li> <li>- wall mounting</li> </ul>
168 600 600			<ul style="list-style-type: none"> <li>- suction hose with filter</li> <li>- ST-264 additional check valve</li> <li>- wall mounting</li> </ul>
168 700 000			<ul style="list-style-type: none"> <li>- suction hose with filter</li> </ul>
168 700 500			<ul style="list-style-type: none"> <li>- suction hose with filter</li> <li>- ST-264 additional check valve</li> <li>- wall mounting</li> </ul>
168 700 600			<ul style="list-style-type: none"> <li>- suction hose with filter</li> <li>- ST-264 additional check valve</li> <li>- wall mounting</li> </ul>

Buy only original spare parts to ensure that all accessories function smoothly.



Catalogue no.	Name	Material	Lenght	Max. pressure	Max. temperature	Compatibility
203 100 455	ST-200 coupling 1/2" F	stainless steel	50 mm	250 bar	150	compatible with central cleaning systems



Catalogue no.	Name	Material	Lenght	Max. pressure	Max. temperature	Compatibility
203 100 656	ST-200 coupling 1/2" M	stainless steel	54 mm	250 bar	150	compatible with central cleaning systems



Catalogue no.	Name	Material	Lenght	Max. pressure	Max. temperature	Compatibility
203 100 460	ST-200 coupling 1/2" F	stainless steel	44 mm	250 bar	150	compatible with central cleaning systems



Catalogue no.	Name	Material	Lenght	Max. pressure	Max. temperature	Compatibility
203 100 655	ST-200 coupling 1/2" M	stainless steel	45 mm	250 bar	150	compatible with central cleaning systems



Catalogue no.	Name	Material
020 003 872	ST-200 coupling cover	plastic



# SUGGESTED ACCESSORIES FOR INJECTORS AND SATELLITES

## INTAKE MANIFOLD



- no need for time-consuming replacement of media suction hoses,
- features individually adjustable inlet ferrules - a clear locking system indicates that the selected ferrule is optimally positioned and activated,
- comes with 4 sets of metering nozzles with plugs to adjust the suction volume in suction mode,
- there is no need to twist the hoses: control is by means of a rotating part with marking. If the marking is between the two coloured ferrules, the flow is blocked.
- thanks to various accessories, the ST-163 suction manifold can be mounted on a wall or on a trolley. An adapter for direct mounting on ST-167 and ST-168 injectors is also available,

Catalogue no.	Name	Material	Inlet	Outlet
200 163 185	Intake manifold	stainless steel	M14 with O-ring	four restrictions 9 mm, color-coded (HACCP)



## WALL BRACKET FOR THE COLLECTOR

Catalogue no.	Name	Material	Mounting
040 004 013	Wall bracket for intake manifold	stainless steel	3 holes, 8,5 mm



# OPTIONAL ACCESSORIES FOR SATELLITES AND INJECTORS



Catalogue no.	Name	Material
040 005 469		acid-resistant stainless steel (316)



Catalogue no.	Name	Material
040 005 469	Nipple 1/2" : 1/2"	acid-resistant stainless steel (316)



Catalogue no.	Name	Lenght	Max. pressure	Max. temperature
306 301 5	Suction hose with filter	0,5 m/ 0,7 m/ 1 m	250 bar	60°C



Catalogue no.	Name	Material	Lenght
200 163 340	Nozzle inserts	plastic	0,5 - 2,0 mm



Catalogue no.	Name	Material	Thread
788 881 29	Bonded seals	stainless steel	1/2"

Catalogue no.	Name	Material	Lenght	Max. pressure	Max. temperature	Inlet
<b>200 264 500</b>	Check valve ST-264	stainless steel	62 mm	400 bar	90°C	1/4" F



Catalogue no.	Name	Compatibility
<b>200 168 420</b>	Wall mounting	ST-168 ST-164





## HYGIENE EQUIPMENT

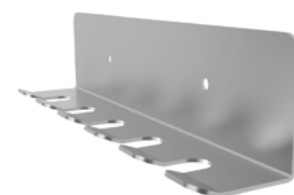
Catalogue no.	Name	Material
<b>8.02.01.051</b>	Canister holder 20 - 25 l	acid-resistant stainless steel (316)



Catalogue no.	Name	Material
<b>8.02.01.052</b>	Canister holder 20 - 25 l with lid	acid-resistant stainless steel (316)

TMOS ATMOS ATMOS  
ZDJĘCIE PRODUKTU  
WKRÓTCIE  
TMOS ATMOS ATMOS

Catalogue no.	Name	Material
<b>8.02.01.053</b>	Lance holder	acid-resistant stainless steel (316)





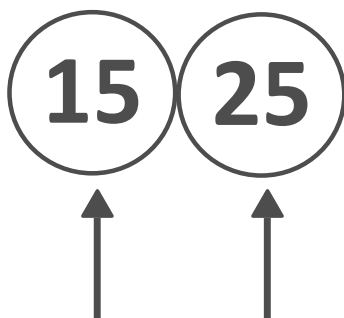
# HOW TO CHOOSE NOZZLES?



When ordering, please add the following four digits from the table to the part number of the lance selected.

Proposed nozzle calibrations for central cleaning systems-calibrations: 20, 25, 30, 35, 40,

Angle	Purpose
00	specialised cleaning of difficult to reach areas
15	intensive surface cleaning
25	surface washing and rinsing
40	surface washing and rinsing
60	disinfection

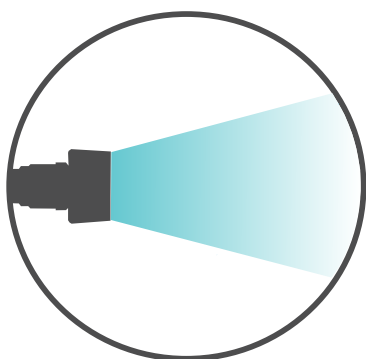


the first two digits are  
the angle of the water  
jet

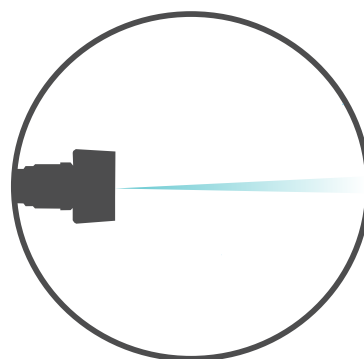
numbers three and four  
are nozzle calibration



Flow rate in litres  
per minute at 20  
bar.



wide spray angle = high flush performance



narrow spray angle = high cleaning efficiency