

2016

Dispense Equipment

$\varnothing 20.8 \pm$

0.6 X 45°

65° 105°

45°

3.75

MICRO MATIC

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With over 50 years of experience Micro Matic is one of the leading suppliers of draught beer equipment worldwide. Spears and dispense heads were the first products we specialised in, and today we have a full product range from keg to glass, at the same time offering related services.

Product development is one of our core competences, and in close co-operation with our customers we are developing new products with focus on innovative technology and design. We have given absolute priority to high quality, hygiene and user-friendliness, and furthermore the safety aspect during the use of our products is of vital importance.

We shall continue to watch the trend of the market, at the same time meeting our customers' requirements, and we look forward to the future co-operation.

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New Design



The Micro Matic name is recognised as standing for quality and the highest technical standards.

Our technical and production teams have a passion for our products and it shows in everything we develop and produce.

We believe in our abilities and in the importance of talking with our customers about their expectations and how best we can support their short and long term aspirations.

Next Generation Spears





YEAR CODING

Unique color and year coding for preventive maintenance



A-System

The Micro Matic A-system is a security flat type round flange design with a single valve operation. The spear has been improved with a unique color and year **coding** for preventive **maintenance** and **hygiene** properties have been optimized.



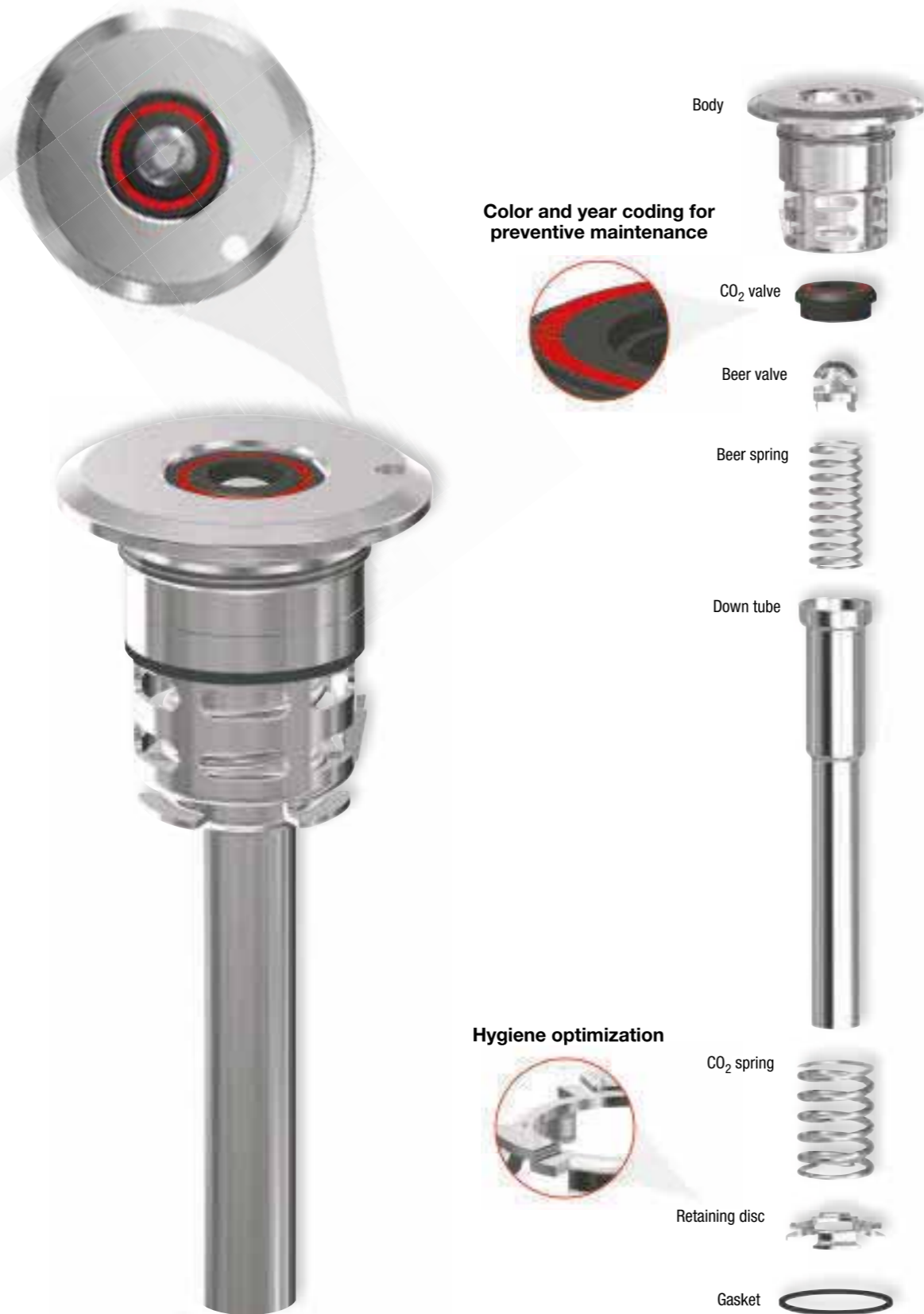
G-System

The Micro Matic G-system is a security flat type trilobe flange design with a single valve operation. The spear has been improved with a unique color and year **coding** for preventive **maintenance** and **hygiene** properties have been optimized.



M-System

The Micro Matic M-system is a security combination spear design with round flange and with double valve operation. The spear has been improved with a unique color and year **coding** for preventive **maintenance** and **hygiene** properties have been optimized.



S-System

The Micro Matic S-system is a security well type design with double valve operation. The spear has been improved with a unique color and year **coding** for preventive **maintenance** and **hygiene** properties have been optimized.



D-System

The Micro Matic D-system is a security well type design with double valve operation. The spear has been improved with a unique color and year **coding** for preventive **maintenance** and **hygiene** properties have been optimized. The safety has been optimized with a degassing function.



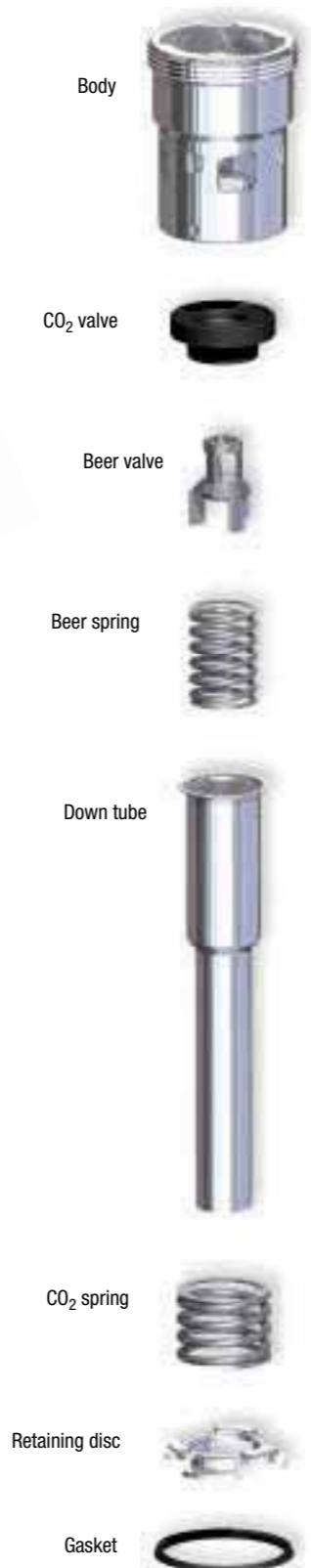
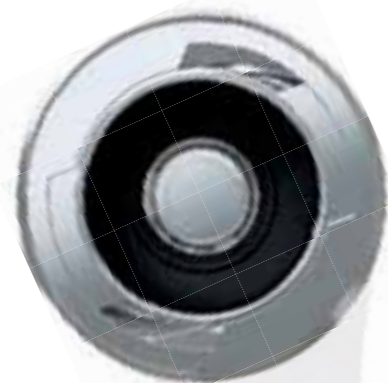
L-System

The Micro Matic L-system has a unique valve construction for soft drinks, with round flange and a double valve operation. The spear has been improved with a unique color and year **coding** for preventive **maintenance**. The neck is an integrated part of the keg. The spear is assembled into the neck body, after which the upper part is inscrewed to fit the circlip into the groove and lock the complete extractor valve into the container. The L-system is with a tamper evident ring.

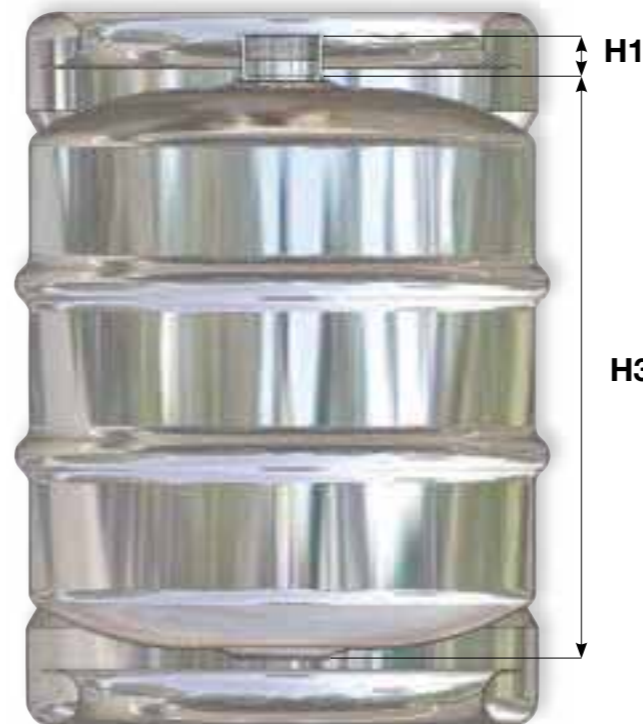


U-System

The Micro Matic U-system is a security well type design with double valve operation.



Correct spear length



		H3
DIN 6647	10.4 L	275
	15.5 L	392
	20.5 L	510
	30 L	341
EURO	30 L	296
	50 L	461

Note: H3 is 345 for a 30 L Plus Keg.

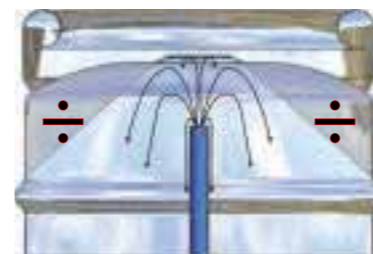
If the keg measure does not fit into the DIN or EURO Norm, it is important that we receive a drawing.

CLEANING



Too long

Detergent does not reach the "keg shoulders" and optimum cleaning is not achieved



Too short

Detergent does not reach the "keg shoulders" and optimum cleaning is not achieved



Right length

Correct length

DISPENSING



No beer comes out



Beer residual

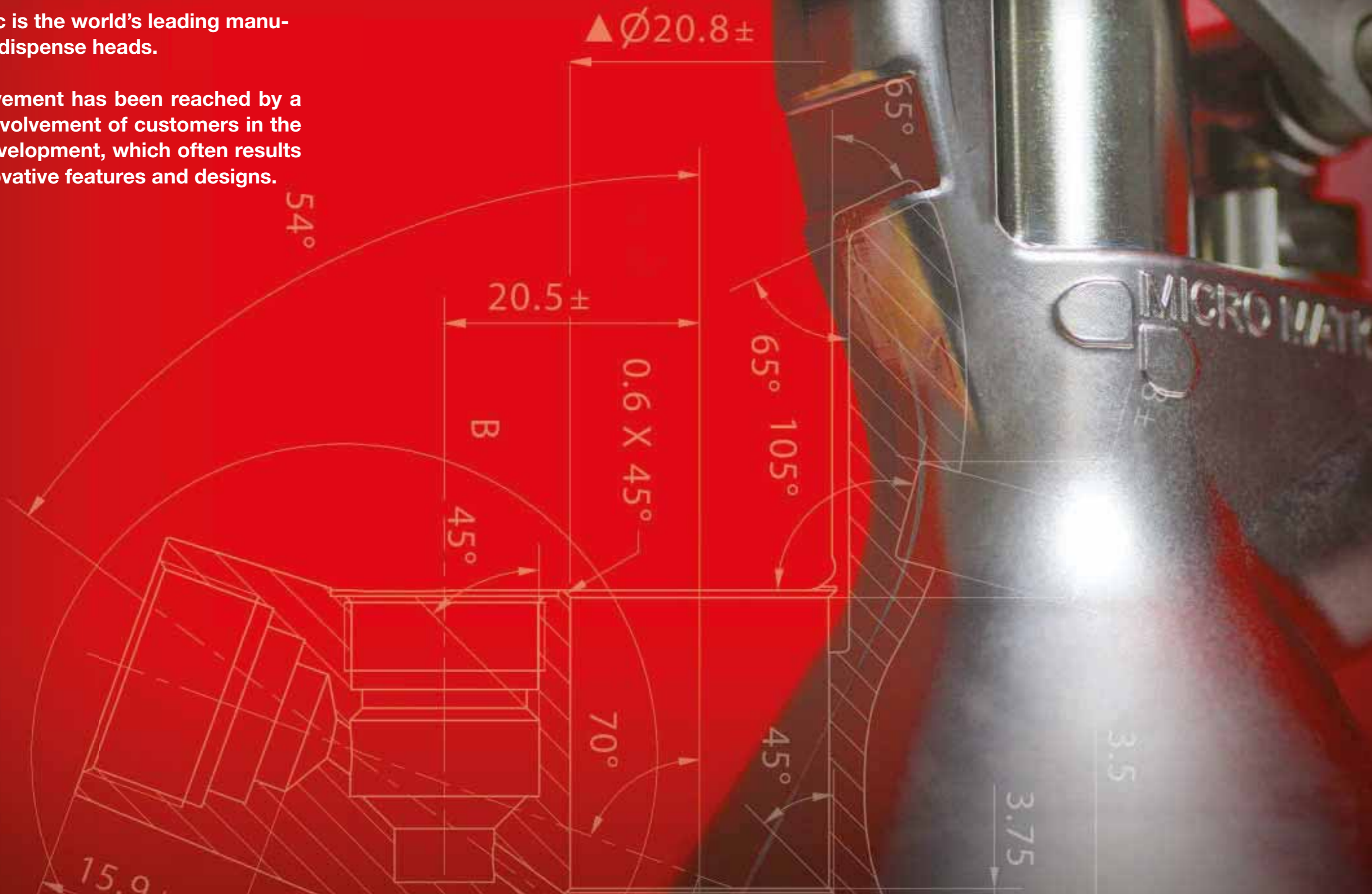


Correct length

Dispense Heads

Micro Matic is the world's leading manufacturer of dispense heads.

This achievement has been reached by a constant involvement of customers in the product development, which often results in new innovative features and designs.



SAFETY COUPLER

Elimination of uncontrolled CO₂ flow



A

M

G

D

S

Safety Coupler

Safety Coupler

Flow Diagram

Flat Type

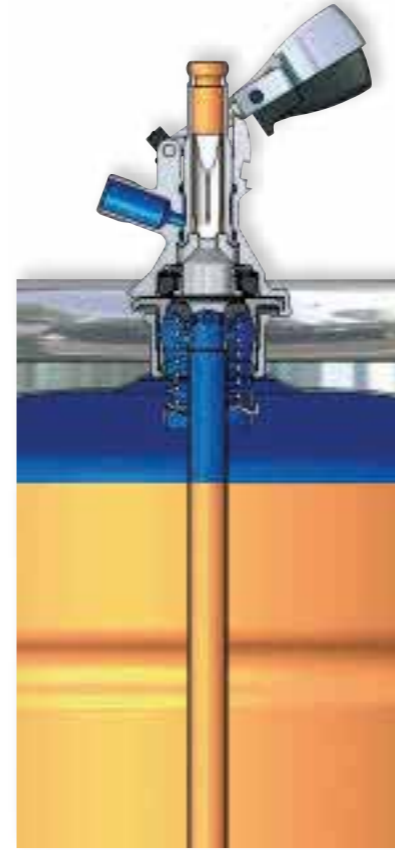


Well Type



Flow Diagram

Flat Type



Well Type



Safety Coupler

Dispense Heads

A-System



- Single O-ring construction
- Unrestricted CO₂ flow
- Degassing / anti splash handling
- Full range of hygienic connections
- Handle with wheels

A-System

Item No.	Thread CO ₂	Thread Beer	NRV in probe
7A113CA00000 (flex seal)	1/2"	1/2"	Torpedo
3A913CA00000	3/4"	5/8"	Torpedo
4A533CA00000	1/2"	1/2"	Torpedo
5A120CC00000 (S/S)	5/8"	5/8"	None



- Great opportunities for individually branded labels on the handle to customize the dispense head
- Long-term durability of handle due to stainless steel and POM lower part
- Stainless steel or tin-nickel plated brass – the choice of the customer
- Long-term durability
- Convenience in use
- A high performance of the main gasket
- Body design and surface finish of high quality



Unique Micro Matic features:
All dispense heads in brass are tin-nickel plated to prevent corrosion.

G-System



Connection
see page 36



- Single O-ring construction
- Unrestricted CO₂ flow
- Degassing / anti splash handling
- Full range of hygienic connections
- Handle with wheels



G-System

Item No.	Thread CO ₂	Thread Beer	NRV in probe
7G112CA00000 (flex seal)	1/2"	1/2"	Ball and retainer
4G412CA00001	1/2"	1/2"	Ball and retainer
5G337CC00001 (S/S)	1/2"	1/2"	Torpedo



Stainless steel
body



- Great opportunities for individually branded labels on the handle to customize the dispense head
- Long-term durability of handle due to stainless steel and POM lower part
- Stainless steel or tin-nickel plated brass the choice of the customer
- Long-term durability
- Convenience in use
- A high performance of the main gasket
- Body design and surface finish of high quality



Unique Micro Matic features:
All dispense heads in brass are tin-nickel plated to prevent corrosion.

M-System



Connection
see page 36



- Single O-ring construction
- Unrestricted CO₂ flow
- Degassing / anti splash handling
- Full range of hygienic connections
- Handle with wheels

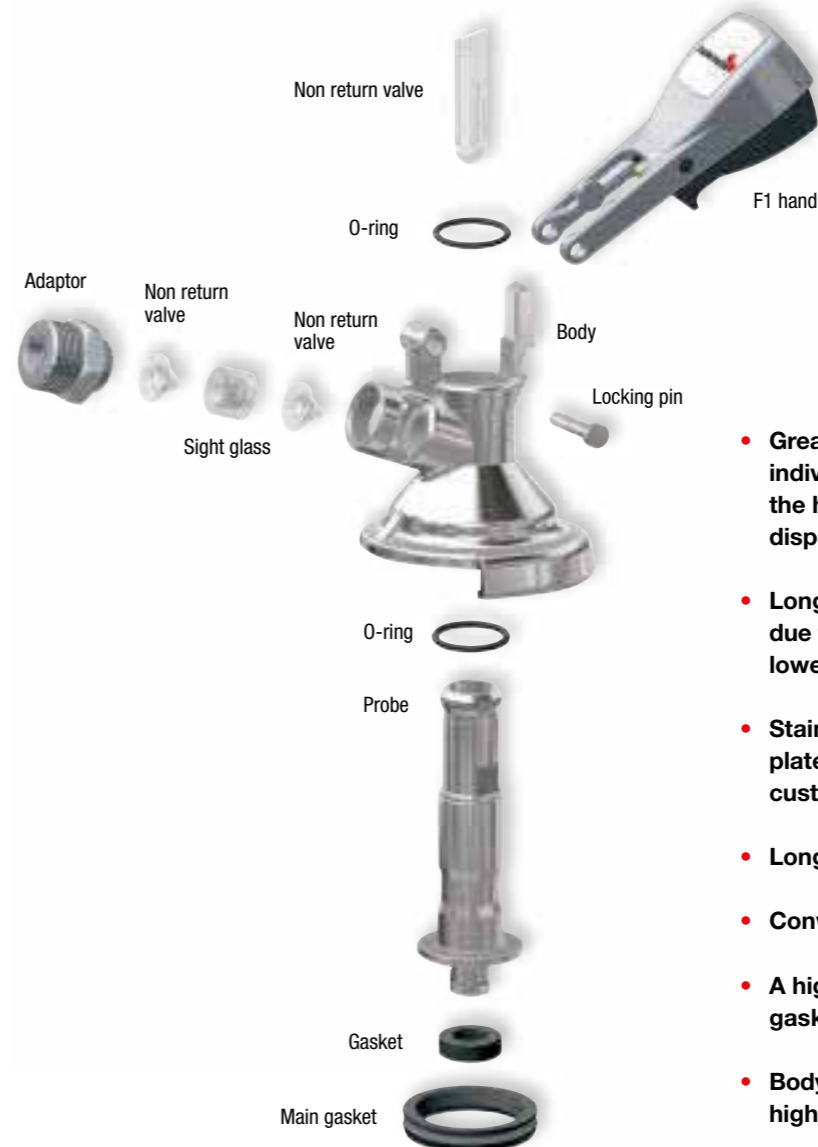


M-System

Item No.	Thread CO ₂	Thread Beer	NRV in probe
3M973CA00000	3/4"	5/8"	Torpedo
4M113CA00000	1/2"	1/2"	Torpedo
5M223CC00000 (S/S)	1/2"	1/2"	Torpedo



Stainless steel body



- Great opportunities for individually branded labels on the handle to customize the dispense head
- Long-term durability of handle due to stainless steel and POM lower part
- Stainless steel or tin-nickel plated brass - the choice of the customer
- Long-term durability
- Convenience in use
- A high performance of the main gasket
- Body design and surface finish of high quality



Unique Micro Matic features:
All dispense heads in brass are tin-nickel plated to prevent corrosion.

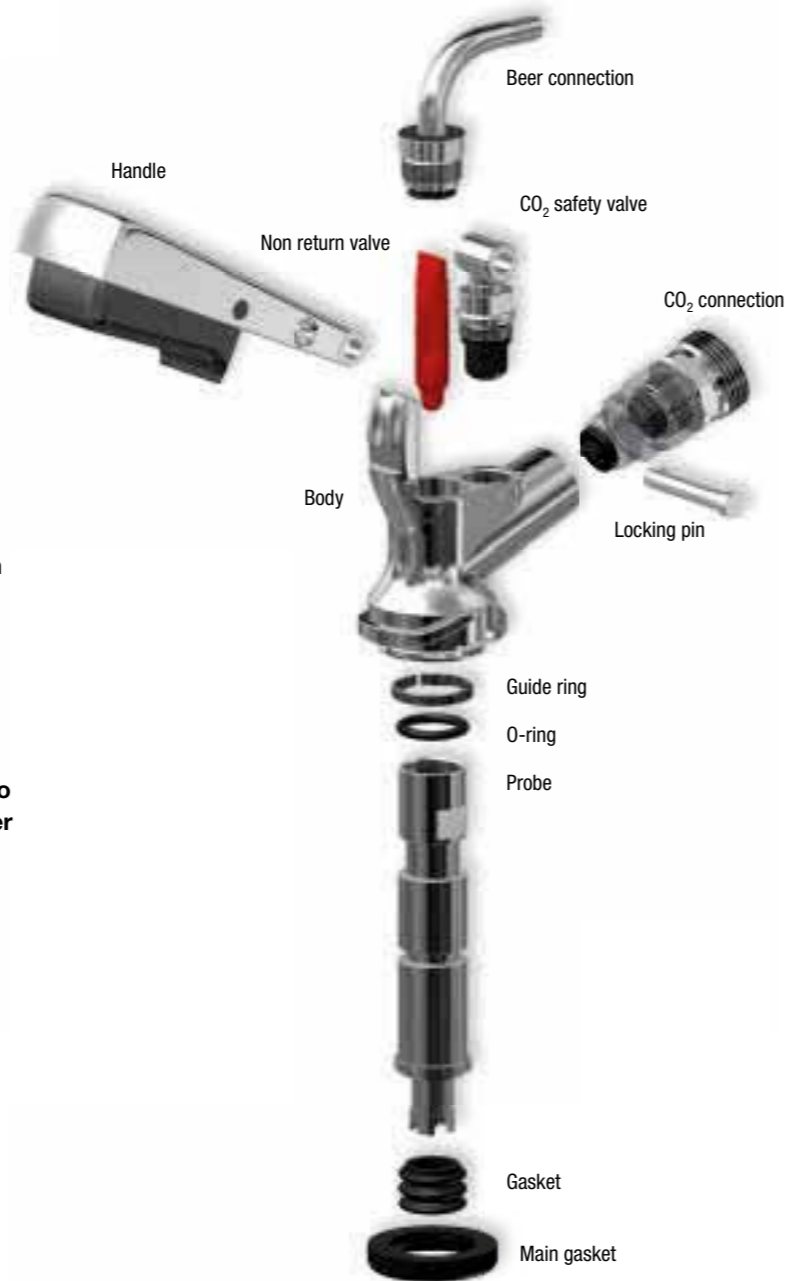


Dispense Heads

S-System



Connection
see page 36



- Single O-ring construction
- Unrestricted CO₂ flow
- Full range of hygienic connections
- Anti splash handling due to separation of CO₂ and beer during activation
- Handle with wheels

S-System

Item No.	Thread CO ₂	Thread Beer	NRV in probe
4S113CA00000	1/2"	1/2"	Torpedo
3S9A3CA00000	3/4"	5/8"	Torpedo
5S112CC00000 (S/S)	1/2"	1/2"	Ball and retainer
5S030CC00000 (S/S)	5/8"	5/8"	None



Stainless steel body

- Great opportunities for individually branded labels on the handle to customize the dispense head
- Long-term durability of the handle due to stainless steel and POM lower part
- Stainless steel or tin-nickel plated brass – the choice of the customer
- Long-term durability
- Convenience in use
- A high performance of the main gasket
- Body design and surface finish of high quality

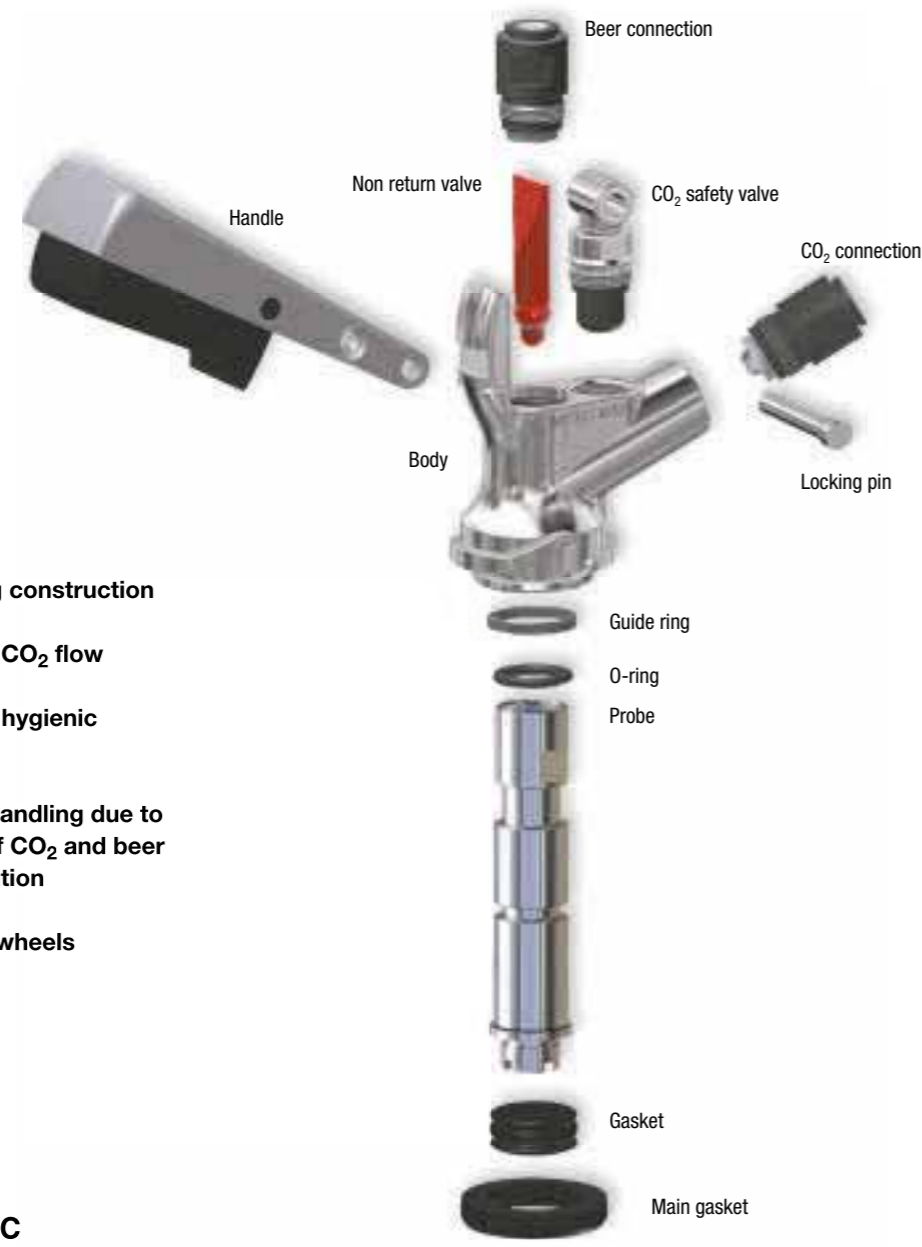


Unique Micro Matic features:
All dispense heads in brass are tin-nickel plated to prevent corrosion.

D-System



Connection
see page 36



- Single O-ring construction
- Unrestricted CO₂ flow
- Full range of hygienic connections
- Anti splash handling due to separation of CO₂ and beer during activation
- Handle with wheels

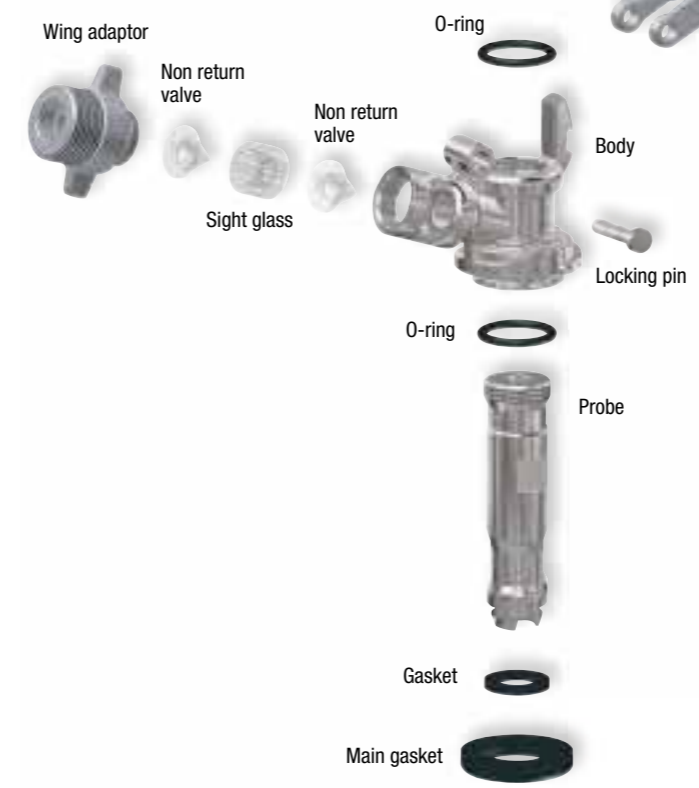
Safety Coupler

D-System

Item No.	Thread CO ₂	Thread Beer	NRV in probe
3D310CA00000	3/4"	5/8"	None
4D233CA00000	1/2"	5/8"	Torpedo and retainer ring
D843CC00000 (S/S)	1/2"	1/2"	Torpedo



Stainless steel body



- Great opportunities for individually branded labels on the handle to customize the dispense head
- Long-term durability of the handle due to stainless steel and POM lower part
- Stainless steel or tin-nickel plated brass – the choice of the customer
- Long-term durability
- Convenience in use
- A high performance of the main gasket
- Body design and surface finish of high quality



Unique Micro Matic features:
All dispense heads in brass are tin-nickel plated to prevent corrosion.

Dispense Heads



Unique Micro Matic features:
All dispense heads in brass are tin-nickel plated to prevent corrosion.

U-System

Item No.	Thread CO ₂	Thread Beer	NRV in probe
8UB34CA00000	1/2"	1/2"	NRV with rubber nose and retaining ring
8U710CA00000	5/8"	5/8"	None



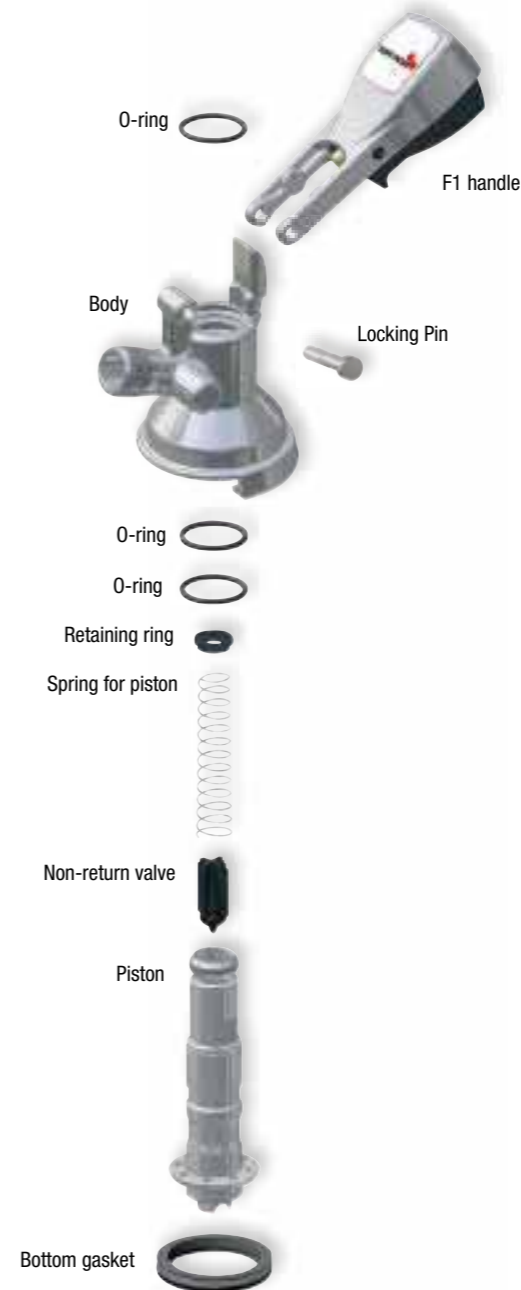
- Great opportunities for individually branded labels on the handle to customize the dispense head
- Long-term durability of the handle due to stainless steel and POM lower part
- Stainless steel or tin-nickel plated brass – the choice of the customer
- Long-term durability
- Convenience in use
- A high performance of the main gasket
- Body design and surface finish of high quality



Unique Micro Matic features:
All dispense heads in brass are tin-nickel plated to prevent corrosion.

L-System

Item No.	Thread CO ₂	Thread Soft Drink	NRV in probe
4L336CA00000	1/2"	5/8"	NRV, spring and retaining ring



- Great opportunities for individually branded labels on the handle to customize the dispense head
- Long-term durability of the handle due to stainless steel and POM lower part
- Stainless steel or tin-nickel plated brass – the choice of the customer
- Long-term durability
- Convenience in use
- A high performance of the main gasket
- Body design and surface finish of high quality



405-503

BEER STRAIGHT CONNECTIONS

Item No.	Description	Outside Diameter
405-502	Stainless steel	7.2 mm
405-503	Stainless steel	8.2 mm
405-504	Stainless steel	9.2 mm

CO₂ STRAIGHT CONNECTIONS

Item No.	Description	Outside Diameter
405-507	Stainless steel	4.2 mm
405-508	Stainless steel	6.2 mm
405-509	Stainless steel	7.2 mm



405-509



405-552

BEER 90° CONNECTIONS

Item No.	Description	Outside Diameter
405-552	Stainless steel	8.2 mm
405-553	Stainless steel	9.2 mm

BEER PUSH-IN CONNECTIONS



703-805

Item No.	Description	Inside Diameter
703-805	POM	3/8"
703-806	POM	8 mm
703-807	POM	10 mm

CO₂ PUSH-IN CONNECTIONS



703-858

Item No.	Description	Inside Diameter
703-858	POM	3/8"
703-859	POM	8 mm
703-860	POM	10 mm

SIGHT GLASS DOUBLE NRV



703-856

Item No.	Description	Thread
703-856	Brass	3/4"

The CO₂ connections can also be used for Flexi-Draft Dispense Heads



Safety Coupler

Dispense Heads

CO₂ CONNECTIONS

Micro Matic offers a large selection of various CO₂ connections in both brass and stainless steel. The shown models are just a small selection - for special requirements ask your sales contact.

Item No.	ID	OD	Thread	Options
405-028, brass	6 mm	9 mm	1/2" BSP	Wing nut, brass
405-001, brass	4 mm	8 mm	1/2" BSP	Hexagonal nut, brass
405-020, brass	5 mm	7 mm	5/8" BSP	Hexagonal nut, brass

BEER CONNECTIONS

Micro Matic offers a large selection of various beer connections in both brass and stainless steel. The shown models are just a small selection - for special requirements ask your sales contact.

Item No.	ID	OD	Thread	Options
405-009, S/S	6 mm	8.3 mm	1/2" BSP	Hexagonal nut, brass
401-781, S/S	6 mm	8 mm	1/2" BSP	Hexagonal nut, brass
405-010, S/S	5 mm	7.5 mm	5/8" BSP	Hexagonal nut, brass
405-013, S/S	7 mm	9.5 mm	5/8" BSP	Hexagonal nut, brass
405-016, S/S	8.5 mm	10.5 mm	5/8" BSP	Hexagonal nut, brass



405-010



401-781

PUSH-IN FITTINGS



Complete range of John Guest connections available

STAINLESS STEEL O-CLIP - STEPLESS

Available from 5.8 - 7.0 mm to 15.3 - 18.5 mm.



Stepless



405-001

405-028

Item No.	Beer Connection	Water Connction	Thread	SOV
315-010	1/2"	1/2" - 3/8"	M18 x 1, 5/8" - 1/2"	With SOV
315-011	3/8"	1/2" - 3/8"	M18 x 1, 5/8" - 1/2"	With SOV
315-012	1/2"	1/2" - 3/8"	M18 x 1, 5/8" - 1/2"	Without SOV
315-013	3/8"	1/2" - 3/8"	M18 x 1, 5/8" - 1/2"	Without SOV



With SOV

Without SOV



- Cooling connection with or without SOV available
- Turnable construction
- The cooling unit will keep the beer line cool and reduce bacterial flora
- Reduced cleaning costs due to reduced bacterial flora
- Prepared for easy insulation assembly
- No condensation water on the surface

The shut-off valve is made of POM to meet all technical and hygienic requirements. It operates up to 10 bar so that it can be used in all beverage applications and allows high pressure during the cleaning process.

Item No.	Inlet	Outlet	Inside Diameter
239-500	5/8"	5/8"	Ø 8.5 mm
239-501	M18 x 1	5/8"	Ø 8.5 mm
239-502	M18 x 1	3/8" JG	Ø 8.5 mm
239-503	M18 x 1	1/2"	Ø 8.5 mm
239-504	5/8"	1/2"	Ø 8.5 mm
239-505	1/2"	5/8"	Ø 8.5 mm
239-506	1/2"	1/2"	Ø 8.5 mm



- Full POM housing
- Ergonomic handle
- Easy to operate
- Compact and functional design

Other types of SOV in stainless steel are available on request

MICRO MATIC

MANUAL FILLING HEADS

Micro Matic offers a high quality manual filling heads for simple filling of beer on kegs - easy to connect directly on the keg for prompt filling of beer. Contact areas between the liquid and the filling head are produced in stainless steel for maximum hygiene.

Item No.	System	Thread
214-050	A	1/2"-1/2" BSP
214-051	G	1/2"-1/2" BSP
214-052	M	1/2"-1/2" BSP
214-053	S	1/2"-1/2" BSP
214-054	D	1/2"-1/2" BSP
214-055	U	1/2"-1/2" BSP
214-056	LS	1/2"-1/2" BSP
214-057	sD	1/2"-1/2" BSP



LABORATORY DISPENSE HEADS

The laboratory dispense heads for sampling comprise Micro Matic standard models like flat, combi and well types with a tin/nickel coated brass body and a stainless steel probe. CO₂ inlet through a 4, 7 or 10 mm connection. A tube of stainless steel (external diameter 5 mm) including shut-off valve (stainless steel) is fitted on the stainless steel probe for beer sampling. Autoclaving is possible for all parts, including O-ring, main gaskets and plastic (POM) handle (white colour).

Item No.	System
214-015	A
214-012	G
214-014	M
214-013	S
214-023	D
214-016	U
214-019	LS



MICRO MATIC

Regulators

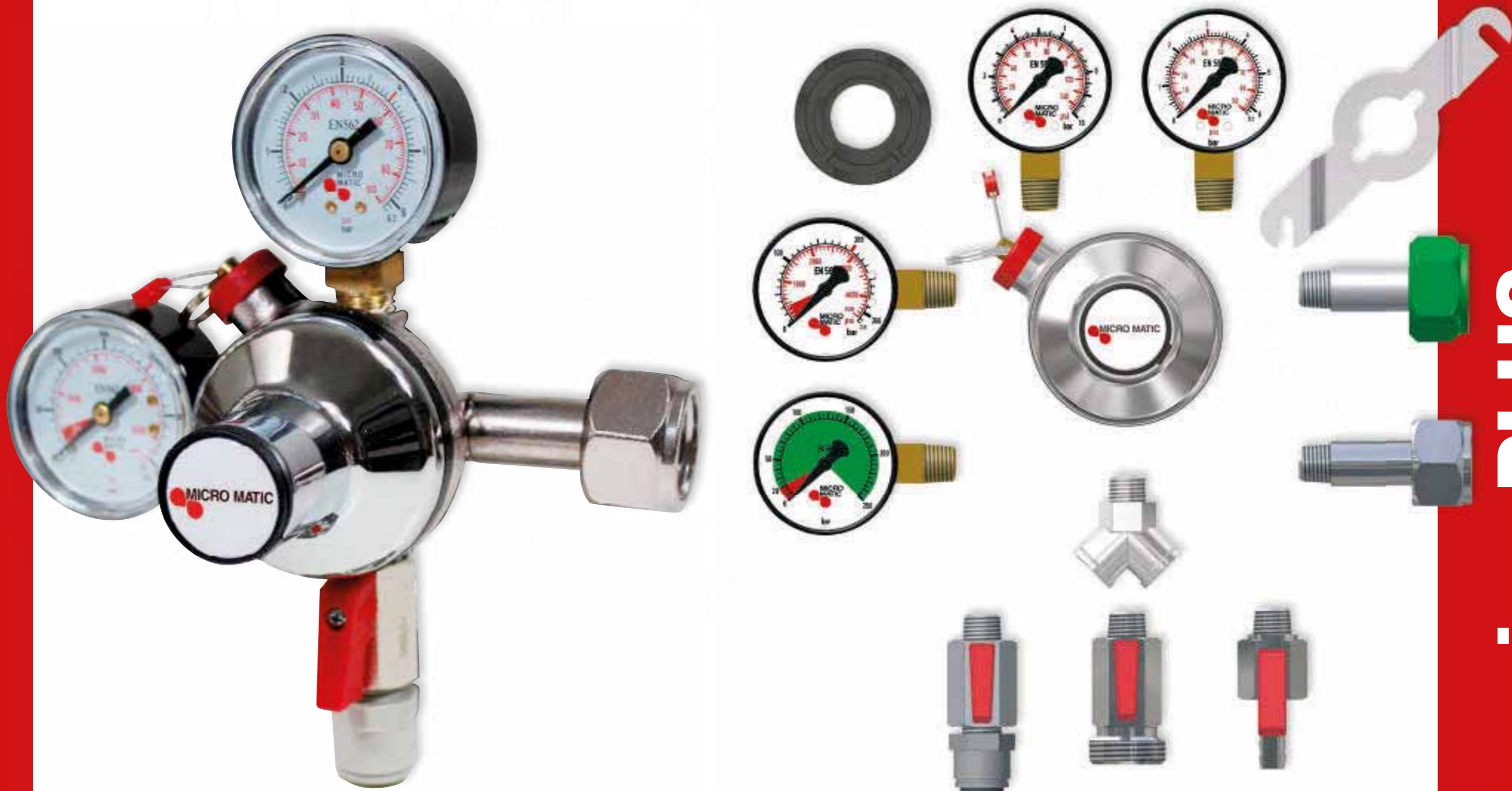
The Premium Regulators have been designed to control the flow of CO₂, N₂ and mixed gasses for all beverages such as beer and soft drinks.



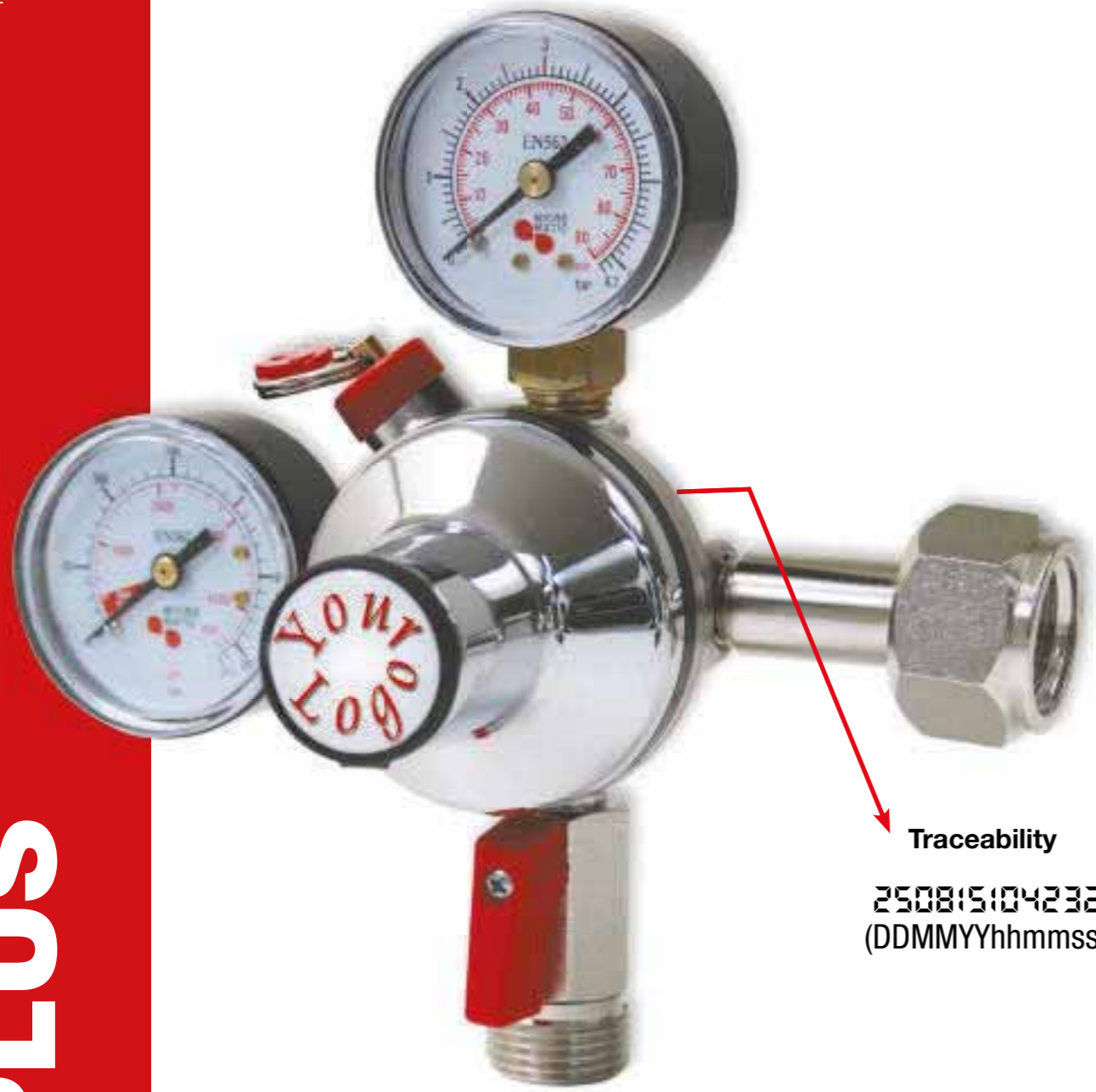
PremiumPLUS

PREMIUMPLUS

Modular design for all customised solutions



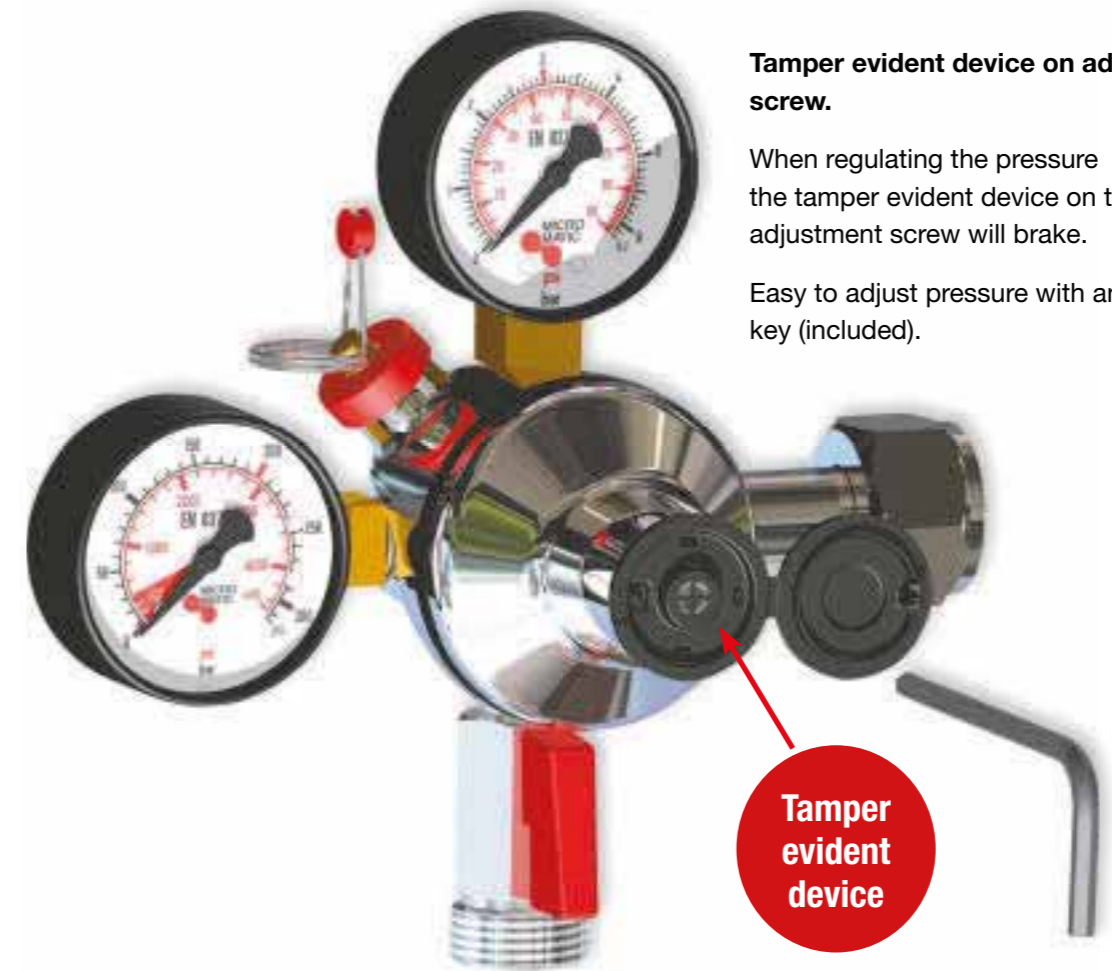
PremiumPLUS



Traceability

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(DDMMYYhhmmss)

- Reliable high performance
- Excellent pressure setting at any time
- Stainless steel valve seat
- Non service product
- Brass housing Zn/Ni plated
- Integrated PRV
- SK approval
- Traceability - individual No.



Tamper evident device on adjustment screw.

When regulating the pressure the tamper evident device on the adjustment screw will brake.

Easy to adjust pressure with an Allen key (included).

Tamper evident device

Tamper evident ring

The tamper evident ring will break if the regulator is opened.



CO₂

The regulators from Micro Matic Premium Series guarantee reliable performance and the stable pressure and flow conditions ensure excellent pressure setting at any time. All regulators meet technical demands in all markets. Pressure relief valves, shut-off valves and pressure gauges meet the international requirement for optimum in-trade operation.

Item No.	Description	Bar	Inlet	Outlet	Comments
791-132	Primary reducer	0-6/4	W 21.8 x 14 TPI	SOV + 3/8" JG	PRV 4 bar



PremiumPLUS



CO₂ & N₂

Regulator batteries are available for CO₂ and N₂/mixed gas and with various pressure combinations on request. Batteries are available for local assembly or pre-mounted.

Item No.	Description	Bar	Inlet	Outlet
-	Primary battery double	0-6/4	W 21.8 x 1/14	SOV + 3/8" JG
-	Primary battery triple	0-10/7	W 21.8 x 1/14	SOV + nozzle 7 LW



PremiumPLUS Batteries

N₂/Mixed Gas Beer

Item No.	Description	Bar	Inlet	Outlet	Comments
791-285	Primary reducer	0-3/2	W 24.32 x 14 TPI	SOV + 3/8" JG	PRV 3 bar

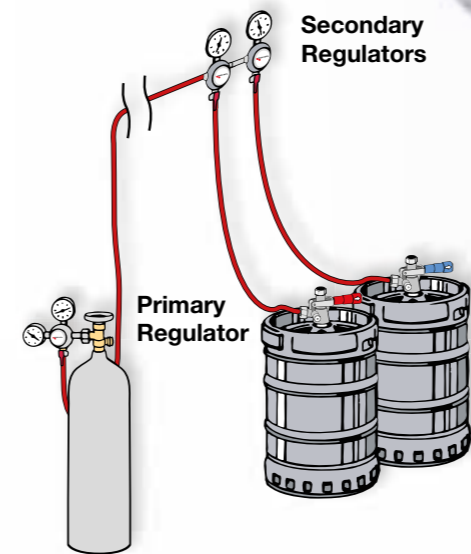


PremiumPLUS

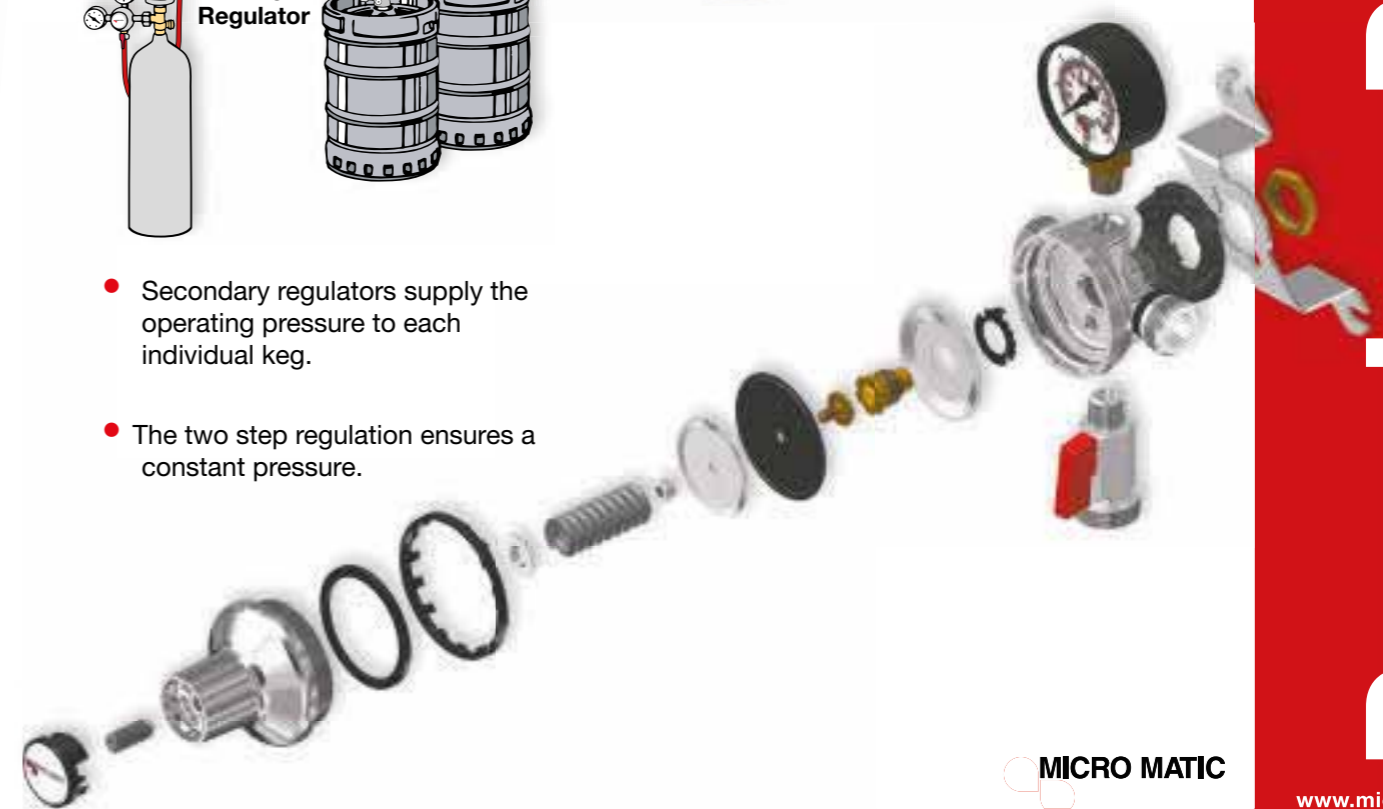


CO₂ & N₂

Item No.	Description	Bar	Inlet	Outlet	Comments
791-065	Secondary reducer	0-6/3 bar	5/8" G	SOV 3/4" G	Wall bracket incl. nut



- Secondary regulators supply the operating pressure to each individual keg.
- The two step regulation ensures a constant pressure.



PremiumPLUS Secondary

SECONDARY COMPACT

Item No.	Bar	Inlet	Outlet
301010101101	0-3.1 bar	2 x 3/8" JG	SOV + 3/8" JG
301010101102	0-45 PSI	2 x 3/8" JG	SOV + 3/8" JG
301010101103	0-4 bar	2 x 3/8" JG	SOV + 3/8" JG



Benefits:

- Compact design
- High capacity
- Easy to adjust handle
- Balanced regulator
- "Pull - adjust - lock" movement secures the set pressure
- Integrated wall bracket and shut-off valve
- Separate tamper evident device available - see page 55

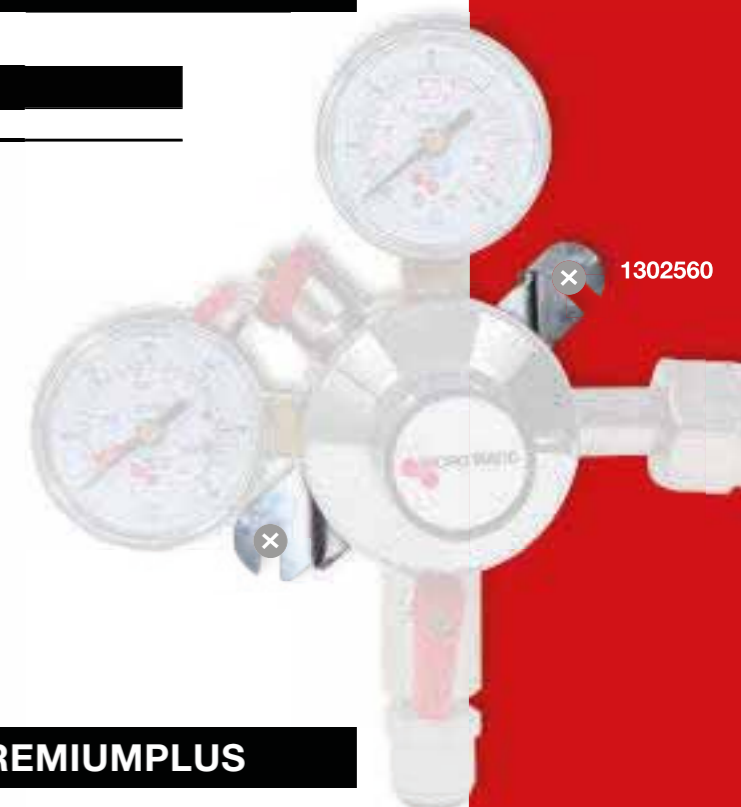


WALL BRACKET FOR PREMIUMPLUS

Item No.	Description
1302560	Wall bracket incl. nut

Benefits of wall mounting:

- Less risk of regulator damage
- Less risk of leakage
- Minimum of repairs
- Longer life time of the regulator
- Good overview of installation



WALL BRACKET LOCK FOR PREMIUMPLUS

Item No.	Description
107-783	Wall bracket lock

Benefits of wall bracket lock:

- Fixation lock for wall bracket
- Prevent unintended rotation of regulator



107-783

PRESSURE ADJUSTMENT HANDLE FOR PREMIUMPLUS

Item No.	Description
107-870	Pressure adjustment handle for PremiumPLUS regulator



New

Benefits:

- Handle for adjustment without tool
- To be used when easy and regular adjustment is needed.



107-870



3250000

GAUGE PROTECTION - PREMIUMPLUS

Item No.	Comments
3250000	Suitable for both primary and secondary PremiumPLUS regulators with 50 mm gauges

TAMPER EVIDENT DEVICE - PREMIUMPLUS

Item No.	Comments
791-094	Suitable for both primary and secondary PremiumPLUS regulators



TAMPER EVIDENT DEVICE - COMPACT

Item No.	Comments
112-747	Suitable for secondary Compact regulators



112-747

SPANNER

Item No.	Description
1900030	Ring spanner for N ₂ /CO ₂ - double ring key 30/32 mm



CYLINDER HOLDER

Item No.	Description
1900064	Metal, max Ø 150 mm cylinder



MANIFOLDS

Item No.	Lines	Connection
1306929	2 lines	SOV + 7 LW nozzle
1307030	3 lines	SOV + 7 LW nozzle
1307127	4 lines	SOV + 7 LW nozzle

Other threads and JG connections are available.



HIGH PRESSURE HOSE

The inner tube is made of thermoplastic polyester elastomers with a high level of chemical compatibility. The reinforcement is brass steel braid and the cover thermoplastic polyurethane which gives the high pressure hose a very long durability.

Item No.	Description	Gas	Length	Connections
1900031	High pressure hose - anti-kink	CO ₂	1.3 m	W 21.8 x W 21.8
1900027-NPT	High pressure hose - anti-kink	CO ₂	1.2 m	W 21.8 x 1/4" NPT



Fonts

Brand owners are increasingly appreciating the benefit and commercial advantages of having personalised branded fonts at the point of dispense.

On a "busy" bar a bespoke beer font attracts the consumer's attention by creating a point of difference.



Bespoke Fonts



Copenhagen Tower

All Taps



CPH-T

Flexi-Draft



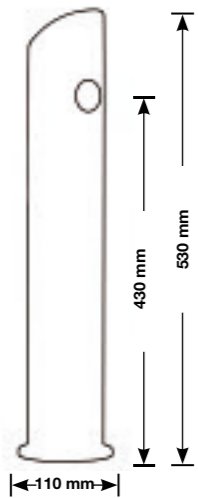
CPH-F



Pegas



CPH-P



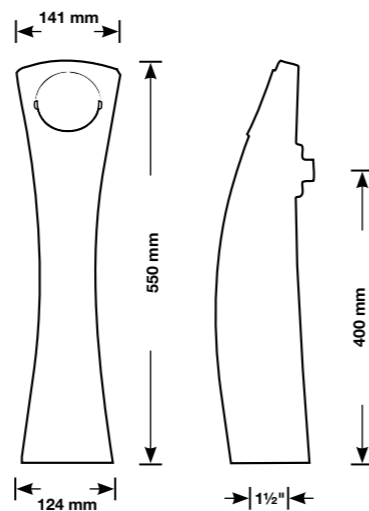
MICRO MATIO

Brand Your Own Font

The BYO tower has a central core that is permanently fixed to the bar. The core houses beer lines, cooling and tap connections.

Around the central core a range of different cover styles and illuminated branding can be easily fitted and changed.

The BYO system gives flexibility and freedom to create new designs around the central core. The covers have been designed with a medallion style branding, illuminated with long life, bright white LEDs. Various surfaces are available and designs can be developed for new covers for one and two tap towers. New and updated covers are exchanged without removing the core or beerline cassette.



Insight

This outstanding design is perfect for all kinds of interiors in modern bars, restaurants and clubs serving beer, wine and beverages on draught. The innovative bezel edge lighting makes the branding unique for this top-quality product.

Features and Benefits

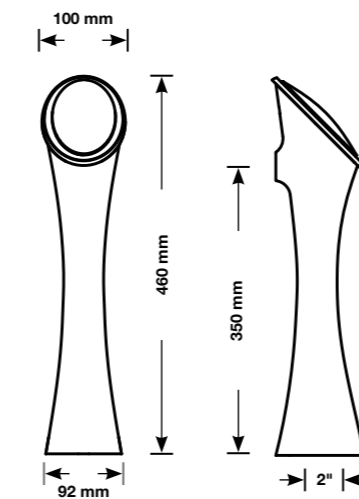
- Slim and elegant in design
- Large illuminated branding area
- Long life lighting system
- Beer cooling python with water re-circulation
- Removal of lighting pod with a single screw allows easy access inside the tower making servicing simple
- Available as either through bar or clamp on adapter

Specifications

Material:	Stainless Steel
Finish:	Polished
Illumination:	Long life xenon bulb 24V- LED
Tap thread:	1/2" or 5/8" BSP connection
Through bar:	1 1/2" BSP thread x 190 mm
Power supply:	24V AC, 12 VA, 2 meter cable
Packaging:	Single box export packed

Options

- Range of finishes
- Flat or domed branding panel



Saturn



MICRO MATIC

Fonts

Fonts

Katrine



Insight

A classic and beautiful font designed for any environment.

Features and Benefits

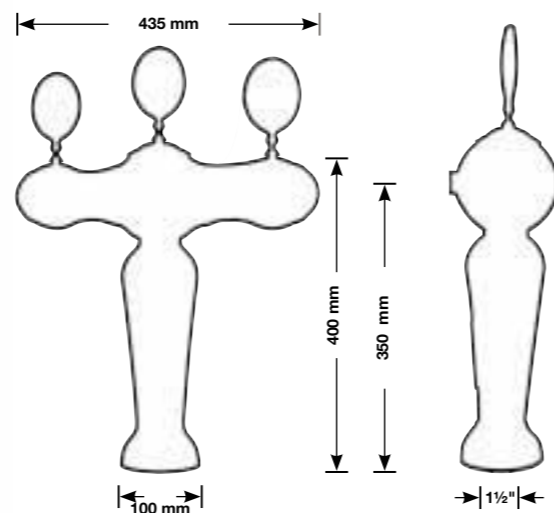
- Elegant, classic and beautiful design
- A font designed for several taps
- With a mahogany pillar the font has a look suitable for an Irish pub
- Suitable for built-in electronic valve when using control system
- Great branding possibility by using illuminated medallions
- Insulated beer/water hoses ensure optimum cooling up to the tap

Specifications

Material: Brass
 Finish: Chrome plated
 Gold plated
 Polished
 Techno
 With mahogany pillar
 Illumination: LED - 5 V
 Tap thread: 1/2" or 5/8" BSP connection
 Through bar: 1 1/2" thread
 Packaging: Single box export packed

Options

- Available for 1 to 14 taps
- Other finishes are available on request
- Possible to combine one or more surfaces on one font



A Micro Matic Drip Tray is not only designed to ensure a clean liquid free area for the pouring operation. Its overall design is made to complement the total font presentation and enhance the whole branding area. A range of standard designs are available and for special designs we would be happy to discuss your requirements.

Item No.	Description	Finish	Dimensions Depth x Width
804779KS	-	Plastic	225 mm x 514 mm
52342	-	S/S	170 mm x 400 mm
55800	-	S/S	170 mm x 200 mm
52777	-	S/S	330 mm x 560 mm
55503	Drip tray, single rinser	S/S	170 mm x 170 mm
1700630	Rinser assembly	Brass/Plastic	-



We are full range supplier in Drip Trays both in stainless steel and plastic

A wide range of the Micro Matic Drip Trays can be prepared for rinsing systems - please ask your local Micro Matic contact

Taps

Micro Matic has designed and engineered an all stainless steel tap to meet the dispense requirements of brewers the world over.



C-Taps



Micro Matic has designed and engineered an all stainless steel tap to meet the dispense requirements of brewers the world over.

The C tap is available with or without flow-control and has a creaming action to ensure every glass of beer can be served with a perfect head.

The flow control adjust knob has been specifically designed for ease of use so the perfect dispense flow rate can be achieved.

In addition to the tap being available in polished stainless steel or gold plated finish, the tap can be further personalised by fitting a branded handle with or without a spring loaded handle function.

Stylish design adds to the technical qualities of this versatile tap.

Item No.	Tap surface	Compensator	Self closing	Shank Thread	Shank Length	Connection
781-002/S101	Polished	With	No	1/2" BSP	55 mm	Ø 14 x 7 mm
781-002/S111	Polished	With	No	5/8" BSP	55 mm	Ø 14 x 7 mm
781-002/S116	Polished	With	No	5/8" BSP	55 mm	Ø 14 x 7 mm
781-008/S101	Polished	Without	No	1/2" BSP	35 mm	Ø 14 x 7 mm
781-008/S111	Polished	Without	No	5/8" BSP	35 mm	Ø 14 x 7 mm
781-008/S116	Polished	Without	No	5/8" BSP	55 mm	Ø 14 x 7 mm
781-011/S118	Polished	With	Yes	5/8" BSP	55 mm	Ø 14 x 7 mm



Black Plastic Handle
106-763

Gold plated
version
on request



Handles
See page 74

AMERICAN STYLE TAPS

Item No.	Description	Finish	Type	Lever thread	Thread
4933SS	Excl. shank	Polished S/S	Without compensator	3/8"	1 1/8" x 18 UNEF
304	US Tap 304 Excl. shank	Polished S/S	Without compensator	3/8"	1 1/8" x 18 UNEF
3560	Tissco Tap Excl. shank	Polished S/S	Without compensator	3/8"	1 1/8" x 18 UNEF
5588	Tissco Tap Excl. shank (short neck)	Polished S/S	Without compensator	3/8"	1 1/8" x 18 UNEF

Other tap connections, shanks and spout lengths are available on request



FLOW CONTROLLER

It is of great importance that all beer types are poured at the correct flow rate from the dispense tap. The Micro Matic Flow Controller can be adjusted by the technician on installation to ensure correct pour. Once you have set the flow rate the tamper evident device can be fitted to the controller to ensure the setting is not changed, without your knowledge. All units are supplied with bracket and tamper evident device. Should the Flow Controller be required for a direct in line installation, remove the controller from the wall bracket assembly.

Item No.	Description	In	Out
803097KS2	With bracket	3/8"	3/8"
802482KS2	With bracket	3/8"	3/16"
802659KS2	With bracket	5/16"	3/16"

All flow controllers are supplied with Tamper Evident Device as standard



MICRO MATIC

HANDLE

Item No.	Description	Material	Colour	Thread
01837	2 - sided	Aluminium	Chrome PVD	3/8" UNC
01836	4 - sided	Aluminium	Chrome PVD	3/8" UNC
1456	4 - sided*	Aluminium	Chrome PVD	3/8" UNC

* Suitable for Tissco Tap
Other PVD colours are available on request

4-SIDED HANDLE

2-SIDED HANDLE



BRANDED HANDLES & TAP MARKERS

Complete the total impression in the bar with different branding opportunities from Micro Matic. Consider for example total branding directly on the tap or as tap badge brackets.



MICRO MATIC

PEBBLE & TWIST HANDLES

Item No.	Material	Branding	Suitable for
804603KS (F100)	Chrome plated top and aluminium body Transparent branding sleeve	Unlimited colours, solid colours and photographic images	3/8"
807200KS (C100)	Plastic (short version) Transparent branding sleeve	Unlimited colours, solid colours and photographic images	3/8"
807201KS (C150)	Plastic (long version) Transparent branding sleeve	Unlimited colours, solid colours and photographic images	3/8"
807198KS (Pebble)	Bright chrome plated and acrylic front lens	Unlimited colours, solid colours and photographic images	3/8"
807199KS (Twist)	Bright chrome plated and acrylic front lens	Unlimited colours, solid colours and photographic images	3/8"

* Also available with M8 and M10 thread.



BRAND YOUR OWN PANORAMA HANDLE

Flexible, cost-effective and uniquely designed, the Panorama tap handle delivers branding and real-time marketing. You can re-use the Panorama tap handle to promote a seasonal or traditional beer or promote special venues or holidays. With its 360° label the Panorama tap handle delivers more space for branding and image building.

Very easy to make your own branding again and again and



Upgrade your medallions with our new range of lenses

We have developed a new range of lenses which gives the designer greater freedom to make your brand stand out.

All of the designs fit into standard medallions so there's no need for new medallion holders or installation costs.

Four new designs give increased branding with:

- Side branding
- Edge illumination
- Two layer branding with a twin lens construction
- Combined round and custom shaped lens designs



The **Titan** concept gives the freedom to change the outer shape of the lens without the expense of changing the medallion holder. The combination of round and custom shaped lenses are crafted into individual shapes for impact at the bar.

New

The design of the **Europa** incorporates a 20mm thick frog eye and 10mm thick base lens to create a premium multi-layered branding lens.



Calisto increases the brand standout with an illuminated halo around the lens.



The **Hyperion** is designed to incorporate front branding and complimentary side branding.



Product Lenses



Flexi-Draft

Unleash the **full profit potential** of draft beer

There are a number of hidden costs when small and medium-sized outlets sell draft beer. With **Flexi-Draft** these costs are eliminated. This allows breweries to sell more draft beer profitably – even to outlets with low throughputs.

Flexi-Draft - eliminate hidden costs, save energy and ensure beer quality.



Visit **flexi-draft.com** and **calculate your savings**

Visit Flexi-Draft.com

Draft Star

A new member of the **Flexi-Draft family** with additional innovative keg handling feature.

Two 30 litre kegs can now be fitted into our smallest foot-print **Flexi-Draft unit**.

New

1 or 2 fonts

Flexi-Draft



- Integrated drip tray
- With handle and easy to move
- With roller belt

1 BRAND

2 x 30 l keg inside = 1 keg/day on dispense
30 l x 360 days = 108 hl per year



4 x 20 L kegs



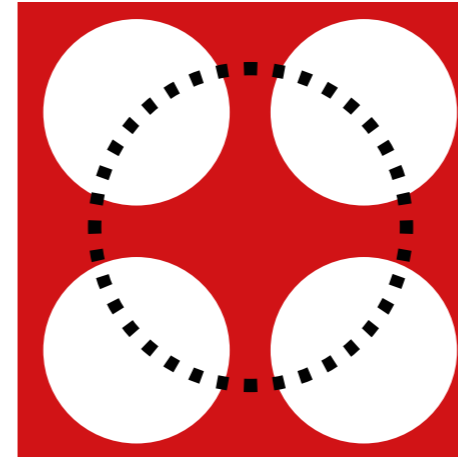
2 x 30 L keg

1 or 2 BRANDS

4 x 20 l keg inside = 2 kegs/day on dispense
40 l x 360 days = 144 hl per year



On only 0.5 m²
4 x 20 l kegs or
2 x 30 l kegs with spacer



Draft Star

Keg Coolers

Item No. 1 hole	Item No. 2 holes	Item No. 4 holes	Item No. no holes	Description	Measurements (with wheels)	Kegs
763-737	-	-	763-736	Draft Spot Slim	W 655 x D 620 x H 947 mm	4 x 20 l / 1 x 50 l
763-480	763-481	-	763-482	Draft Spot 1	W 650 x D 680 x H 1083 mm	4 x 20 l / 1 x 50 l
763-483	763-484	-	763-485	Draft Spot 2	W 920 x D 620 x H 947 mm	4 x 20 l / 1 x 50 l
763-486	763-487	763-489	763-490	Draft Spot 3	W 1220 x D 620 x H 947 mm	6 x 20 l / 2 x 50 l
763-491	763-492	763-494	763-495	Draft Spot 4	W 1620 x D 620 x H 947 mm	8 x 20 l / 3 x 50 l
-	763-496	-	-	Draft Spot Wine	W 650 x D 680 x H 1083 mm	4 x 20 l



New



Item No.	Description	Measurements (with adjustable legs)	Kegs
763-738	Draft Spot Slim - Under-counter	W 655 x D 620 x H 795-810 mm	2 x 20 l
763-497	Draft Spot 2U - Under-counter	W 920 x D 620 x H 795-810 mm	4 x 20 l / 1 x 50 l
763-498	Draft Spot 3U - Under-counter	W 1220 x D 620 x H 795-810 mm	6 x 20 l / 2 x 50 l
763-499	Draft Spot 4U - Under-counter	W 1620 x D 620 x H 795-810 mm	8 x 20 l / 3 x 50 l



- Energy saving
- For existing and new kegs
- Fixed pressure, fixed temperature
- No beer losses
- No cleaning, no maintenance
- Mobile and built-in solutions

Item No.	Description	Specification
763-250	Flexi-Draft Copenhagen Tower with illuminated oval fish eye lens	Chrome
763-430	Flexi-Draft Copenhagen Tower with illuminated round frog eye lens	Chrome
763-245	Flexi-Draft Copenhagen Tower without illumination	Chrome
763-740	Flexi-Draft Copenhagen Tower without illumination with non-illuminated lens	Chrome
763-290	Flexi-Draft Copenhagen Tower without illumination with non-illuminated front lens	Chrome



Special Handles
See page 74

763-250

763-430

763-245

763-290

Twist

Pebble



Very easy to connect the kegs



Insert the revolutionary one-way beer line into the guiding tube.



Fix the one-way beer line into the tap and close the font.



Mount the one-way beer line into the dispense head.



Mount the dispense head on the keg and press down the activation handle.

Draft Spots

DRAFT SPOT Slim



1 Font

Side Compressor
W 655 x D 620 x H 947 mm
(with wheels) Weight 76 kg

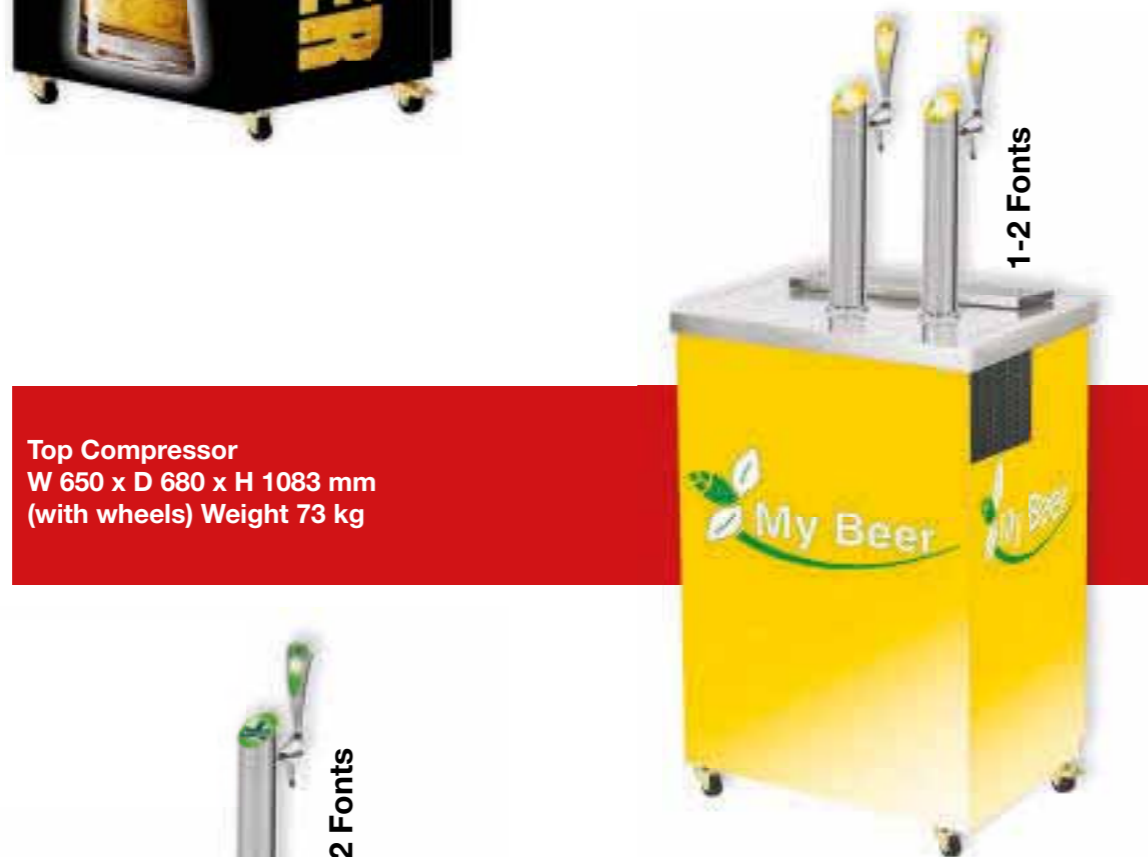
DRAFT SPOT 3



1-4 Fonts

Side Compressor
W 1220 x D 620 x H 947 mm
(with wheels) Weight 106 kg

DRAFT SPOT 1



1-2 Fonts

Top Compressor
W 650 x D 680 x H 1083 mm
(with wheels) Weight 73 kg

DRAFT SPOT 4



1-4 Fonts

Side Compressor
W 1620 x D 620 x H 947 mm
(with wheels) Weight 128 kg

DRAFT SPOT 2



1-2 Fonts

Side Compressor
W 920 x D 620 x H 947 mm
(with wheels) Weight 89.5 kg

DRAFT SPOT Wine



2 Fonts

Top Compressor
W 650 x D 680 x H 1083 mm
(with wheels) Weight 73 kg



4 x 20 L kegs



1 x 50 L keg



4 x 20 L kegs



1 x 50 L keg



4 x 20 L kegs



1 x 50 L keg



6 x 20 L kegs



3 x 20 L kegs / 1 x 50 L keg



2 x 50 L kegs



8 x 20 L kegs



2 x 20 L kegs / 2 x 50 L keg



3 x 50 L kegs



4 x 20 L kegs

Systems

Dispense Heads
Stainless steel/Brass

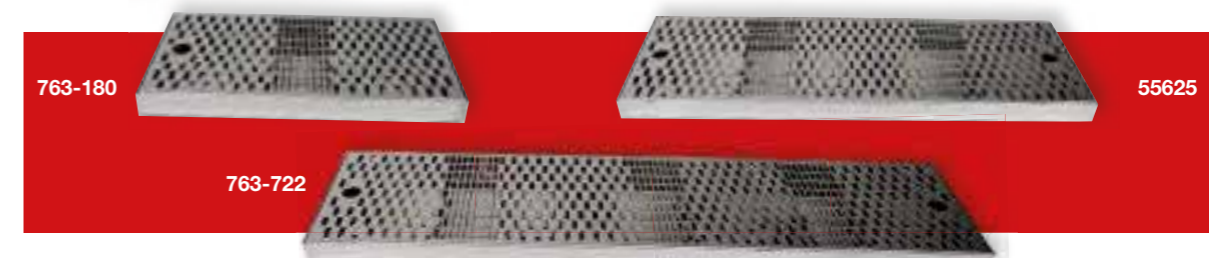
One-Way Beer Lines
Recyclable plastic and rubber



Regulators



Drip Trays



	Draft Spot Slim	Draft Spot 1	Draft Spot 2	Draft Spot 3	Draft Spot 4	Draft Spot Wine
Cooling						
Compressor size	504 watts	504 watts	504 watts	504 watts	504 watts	504 watts
Coolant	R134a	R134a	R134a	R134a	R134a	R134a
Performance						
Maximum operating temperature	40°C	40°C	40°C	40°C	40°C	40°C
Dispense temperature	2°C-4°C	2°C-4°C	2°C-4°C	2°C-4°C	2°C-4°C	7-9°C / 14-16°C
Electrical						
Main input	220V, 50Hz	220V, 50Hz	220V, 50Hz	220V, 50Hz	220V, 50Hz	220V, 50Hz
Operating current	3A	3A	3A	3A	3A	3A
Power consumption (24°C)	2.7 kWh/24h	3.21 kWh/24h	2.7 kWh/24h	3.12 kWh/24h	3.75 kWh/24h	3.21 kWh/24h
One-way beer line						
Flow	2-2.2 l/min					



Draft Beer to Take Away

Thanks to the Pegas dispense system, quality take home draft beer is now a reality.

The Pegas tap system uses a back pressure to dispense draft beer directly into a PET or glass bottle without loss of CO₂ or flavour.

The Pegas principle enables beer to be dispensed direct from the tap into a bottle maintaining all the looked for values of draft beer.

With Pegas, your customers can enjoy at home with a meal or on its own, draft beer as it is meant to be tasted.



The Pegas tap system:

- Easy to install
- Simple to service
- Requires low investment but gives the potential for high return
- No beer wastage through foaming
- Takes only 30 seconds to fill a 2litre PET bottle

Item No.	Description	Specification
782-001	Pegas Evolution Tap	Plastic



782-001

Item No.	Description	Specification
763-471	Pegas Copenhagen Tower with illumination and branding	Chrome



763-471

BEVmate

The safe and simple single-use solution for beverages on tap



BEVmate

KRONES

Machine and line technology

KIC KRONES
KRONES GROUP

BEVkeg - 20 litres non-returnable
PET container

MICRO MATIC

BEVmate - gas-free tapping system



MICRO MATIC

BEVmate: a dispense system without gas

Perfect hygiene guaranteed by a one-way beer line

The **KIC KRONES** container without extractor tube/inner-liner

- No tapping gas required
 - Constant CO₂ content of the beverage
 - Container is compressed after being emptied
 - Container is pressureless after being emptied
 - Small waste volume (recyclable)
 - No cost for gas alarm system
 - Reduced cost for cleaning
 - Only a power connection needed
 - Plug and play
-
- Simple, safe all-inclusive system from the blow moulding and filling process into the glass in your hand.
 - Easy to handle
 - Container without fitting and inliner.
 - Optimum PET standard and field-proven filling technology.
 - Only stable covering boxes on pallets ensure dependable stackability.
 - Tapping requires no gas.
 - Perfect hygiene thanks to disposable beverage line.



MICRO MATIC



The benefits that make the difference
 For breweries, their customers in the restaurant and catering business and the retail trade and above all consumers, smartDRAFT™ offers a great range of convincing benefits.

- Flavour of the highest quality**
- Lastingly fresh draught beer flavour and best dispensing quality
 - Perfect drinking temperature, all the time
 - Perfect hygiene thanks to the one-way beer line
 - Integrated CO₂ supply

Modern marketing

- High-quality, elegant design, it for the finest restaurants
- Ideal advertising space, direct access to customers
- Premium quality increases sales and customer loyalty

Economical dispensing system

- Ideal for small restaurants and catering businesses
- Low investment costs
- No tapping wastage
- No cleaning required for beer lines and tap, no servicing and maintenance costs
- New sales potential due to mobile dispensing



The smartDRAFT™ Family

	smartDRAFT™ Mini Karaoke, Catering, Private	smartDRAFT™ Standard Outlet up to 40 HL p.a.	smartDRAFT™ Tropical Outlet up to 40 HL p.a.
Cooler			
Keg			
One-way line			
Tap			
Prechilling			

To avoid foam when a keg empties or after a new keg is connected all beer lines need a foam detector to immediately shut down the beer flow. With a FOB detector beer lines stay full at all times and support a correct dispense performance.

Item No.	Description	Product lines inlet and outlet	FOB outlet
1903640	Plastic FOB Detector	OD 5/8"	Optional
1903640-JG	Plastic FOB Detector	OD 3/8" (JG)	Optional

An extra service to offer the bar or restaurant owner - keep the beer lines full when a keg empties. Are available for wall mounting or directly on the dispense head.



Kegs	Litres wasted per week				
20	12	18	24	29	
15	9	13	18	22	
10	6	8	10	13	
5	3	4	6	7	
	30 m	45 m	60 m	75 m	
	Beer line in metres				

Based on beer line 7 mm ID.

Multiply the litres wasted per week by the profit per glass to see the money gained with a FOB Detector - an extra service to offer the outlet.



Can be used in left and right directions just by moving the wall bracket

FOB Detectors

HAND PUMP SYSTEM

The Hand Pump is fitted directly to the dispense head. The dispense head is connected to the keg and beer is dispensed by operating the Hand Pump. For best results the beer temperature should be between 6 and 8 °C depending on the beer. This result can be achieved by using the cooling solutions.

Item No.	Description	Connection	Systems
3100200	Dispense pump with dispense tap and 5/8" wing nut	2 x 5/8"	Fit all systems



The dispense heads should be ordered separately (see page 18)

Procedure for cleaning/maintenance

- ① Mix detergent and water (follow instructions given by your supplier of detergent).
- ② Mount cleaning cap and connect dispense head/ PartyPump.
- ③ Flush system - allow contact time of detergent according to instruction given by your supplier of detergent.
- ④ After cleaning degas system by pulling PRV. Do not attempt to remove cap before the system is fully degassed. Disconnect dispense head/Party Pump - fill cleaning bottle with clean water.
- ⑤ Re-connect cleaning cap and flush with pure water to make sure that all detergent is gone.

Micro Matic recommends to flush the Party Pump daily with water after closing hours. Minimum clean the system weekly with draught beer detergent - just make sure only to use detergent specified for draught beer. Remember to use protection gloves!

Panorama Handle
see page 75

Super cooler blue (insulated)
Item No. SC-3026B



Fill up the Super Cooler with ice and the keg of beer will be kept colder than any other type of keg container. The double wall construction with blown-in-place urethane insulation eliminates condensation that causes water stains or damage.



Party Pumps

Micro Matic offers a large selection of various connections. The shown models are just a small selection - for special requirements ask your sales contact.

Cleaning Adaptors

All adaptors are prepared for either wall mounting and/or for direct fitting together with the dispense head. Easy cleaning, durable and hygienic are the common features for all products in the complete adaptor selection whether you choose a stainless steel or acetal version.



A-System

Item No.	Description	Fittings inclusive
2A1-078	Valve system	2 x 3/8" enots, brass (tin/nickel plated)
2A1-076	Valve system	2 x 7 mm ID x 8.3 mm OD, brass (tin/nickel plated)
2A1-009	Double	with chain
2A1-014	Valve system	1 x 10 mm ID x 11.5 mm OD, brass (tin/nickel plated)



Cleaning Adaptors

G-System

Item No.	Description	Fittings inclusive
2G3-077	Valve system	2 x 3/8" enots, brass (tin/nickel plated)
2G3-002	Valve system	1 x 7 mm tail pipe ID, brass (tin/nickel plated)
2G3-004	Valve system	2 x 3/8" JG, brass (tin/nickel plated)
2G3-048	Valve system	1 x 3/8" JG and SOV, brass (tin/nickel plated)



2G3-077



2G3-004



2G3-002



2G3-048

M-System

Item No.	Description	Fittings inclusive
2M1-010	Valve system	1 x 10 mm ID x 11.5 mm OD, brass (tin/nickel plated)
2M1-020	Valve system	1 x 3/8" JG, brass (tin/nickel plated)
2M1-012	Valve system	2 x 10 mm ID, brass (tin/nickel plated)
2M1-015	Valve system	1 x 7 mm ID, brass (tin/nickel plated)



2M1-010



2M1-020



2M1-012



2M1-015

S-System

Item No.	Description	Fittings inclusive
2S2-019	Valve system	2 x 3/8" JG, brass (tin/nickel plated)
2S2-004	Valve system	without fittings
2S2-007	Double	with chain
2S2-041	Valve system	1 x 3/8" JG, brass (tin/nickel plated)
2S2-099	Valve system	2 x 3/8" enots, brass (tin/nickel plated)



2S2-019



2S2-007



2S2-004



2S2-041



2S2-099

D-System

Item No.	Description	Fittings inclusive
2D2-008	Valve system	2 x 10 mm ID x 11.5 mm OD, brass (tin/nickel plated)
2D2-007	Valve system	1 x 10 mm tail pipe ID, brass (tin/nickel plated)
2D2-011	Valve system	2 x 1/2" JG, brass (tin/nickel plated)



2D2-008



2D2-007



2D2-011

U-System

Item No.	Description	Fittings inclusive
2U2-003	Valve system	2 x JG, brass (tin/nickel plated)
2U2-000	Valve system	without fittings
2U2-014	Valve system	1 x 10 mm tail pipe, brass (tin/nickel plated)
2U2-007	Single	1 x 10 mm enots and SOV, brass (tin/nickel plated)



2U2-000



2U2-003



2U2-014



2U2-007

L-System

Item No.	Description	Fittings inclusive
2L1-022	Valve system	1 x 7 mm ID x 8.3 mm OD - standard, brass (tin/nickel plated)
2L1-016	Valve system	1 x 10 mm tail pipe ID, brass (tin/nickel plated)
2L1-021	Valve system	2 x 7 mm tail pipe ID, brass (tin/nickel plated)



2L1-022



2L1-016



2L1-021

Adaptors Acetal

Item No.	System	Description	Fittings inclusive
802769KS	A-system	Combined ring main	3/8" JG
802595KS	G-system	Combined ring main	3/8" JG
802483KS	S-system	Combined ring main	3/8" JG
802770KS	U-system	Combined ring main	3/8" JG



G-system



S-system



U-system



A-system

Micro Matic offers two types of cleaning bottles - High Density Polyethylene and Stainless Steel bottles. The two variants have different features and advantages, both ensure supreme cleaning of your draught beer installations. Each bottle has been tested thoroughly in order to meet market standards and safety regulations.



SACK- SMALL ACCOUNT CLEANING KITS

High density polyethylene bottles supplied with bottle cap and gas pump. Bottle caps and gas pumps are made from acetal (POM). Easy to use system with a flow rate of up to 7 Litres/min.

Item No.	Description	Litre
803572KS	S - Type	30 L
803694KS	S - Type	15 L
804089KS	G - Type	30 L
804472KS	G - Type	15 L
803873KS	A - Type	30 L
804052KS	A - Type	15 L
804659KS	U - Type	30 L
804660KS	U - Type	15 L



803572KS

804472KS

HDPE BOTTLES WITH ACETAL CAP

High Density Polyethylene Bottles contain a bottle cap complete with dip tube and pressure relieving valve. The bottles are also available in 30 and 50 litres. Bottle caps are made from Acetal (POM) and are fitted with a pressure relieving valve. Bottles are designed for a maximum working pressure of 4 bar (60psig).

Item No.	Description	Litre
806108KS	Type A	5 L - standard version
806109KS	Type G	5 L - standard version
806117KS	Type M	5 L - standard version
806101KS	Type S	5 L - standard version
806103KS	Type U	5 L - standard version
806238KS	Type A	15 L - standard version
806239KS	Type G	15 L - standard version
806247KS	Type M	15 L - standard version
806231KS	Type S	15 L - standard version
806233KS	Type U	15 L - standard version
806148KS	Type A	15 L - slim version
806149KS	Type G	15 L - slim version
806157KS	Type M	15 L - slim version
806141KS	Type S	15 L - slim version
806143KS	Type U	15 L - slim version



806149KS



806231KS



806518KS

HDPE BOTTLES WITH STAINLESS STEEL CAP

The new version of the High Density Polyethylene Bottles from Micro Matic includes a stainless steel bottle cap and stainless steel spear. The bottle caps are fitted with a pressure relieving valve. Bottles are designed for a maximum working pressure of 4 bar (60psig).

Item No.	Description	Litre
806518KS	Type A	5 L - standard version
806519KS	Type G	5 L - standard version
806517KS	Type M	5 L - standard version
806511KS	Type S	5 L - standard version
806513KS	Type U	5 L - standard version
806514KS	Type D	5 L - standard version
806358KS	Type A	15 L - standard version
806359KS	Type G	15 L - standard version
806357KS	Type M	15 L - standard version
806351KS	Type S	15 L - standard version
806353KS	Type U	15 L - standard version
806354KS	Type D	15 L - standard version
806468KS	Type A	15 L - slim version
806469KS	Type G	15 L - slim version
806467KS	Type M	15 L - slim version
806461KS	Type S	15 L - slim version
806463KS	Type U	15 L - slim version
806464KS	Type D	15 L - slim version

SPEARS

Stainless steel spears for cleaning bottles. The spears are made of stainless steel with a tube of plastic. Please see the illustration. Please specify size of cleaning bottle when ordering.

Item No.	System	Remarks
201-201	A	-
201-202	G	-
201-207	M	-
201-203	S	2 lugs
201-204	S	3 lugs
201-206	U	-
201-205	D	-
201-208	L	Standard
201-218	L	Pepsi
201-228	L	Coca Cola



201-201

CLEANING BOTTLES STAINLESS STEEL

Stainless steel cleaning bottles exclusive of extractor tubes. The bottles must not be used with products that contain chlorine and/or other products that are not suitable to be in contact with this type of stainless steel.

Item No.	Description	Litre
201-310	One neck 14 TPI	9 L
201-312	Two necks 14 TPI	9 L
201-311	Three necks 14 TPI	9 L
201-316	Four necks 14 TPI	9 L
201-315	Five necks 14 TPI	9 L
201-410	One neck 14 TPI	18 L
201-420	Four necks 14 TPI	18 L

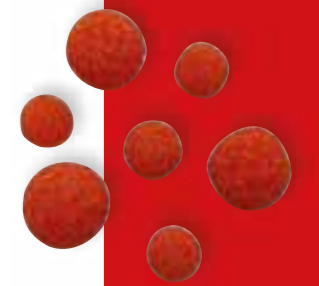


201-310

SPONGE BALLS FOR CLEANING

When using the sponge balls for cleaning the diameter size must be bigger than the line diameter to have a scrubbing effect.

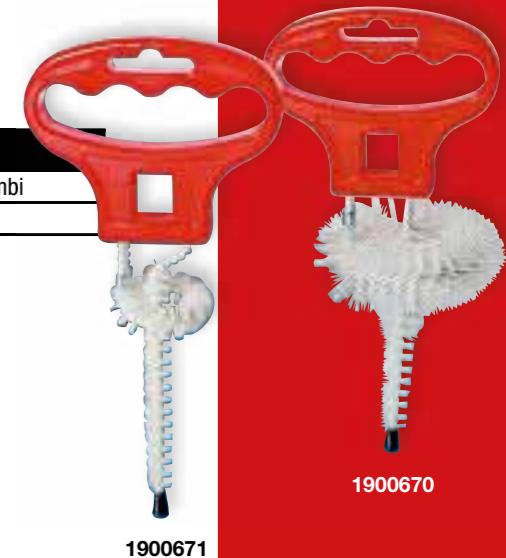
Item No.	Diameter
3200337-5	Ø 5 mm for 4 mm ID line
3200337-6	Ø 6 mm for 5 mm ID line
3200337-7	Ø 7 mm for 5 mm ID line
3200337-8	Ø 8 mm for 6 mm ID line
3200337-9	Ø 9 mm for 6.7 - 7 mm ID line
3200337-10	Ø 10 mm for 7 - 8 mm ID line
3200337-12	Ø 12 mm for 9 - 10 mm ID line
3200337-15	Ø 15 mm for 10 - 12 mm ID line



CLEANING BRUSHES

Cleaning brushes for dispense heads.

Item No.	Description	System	Fitting
1900670	Brush for dispense heads	A/M/G	Flat/Combi
1900671	Brush for dispense heads	S/D	Well



CLEANING BRUSHES

Cleaning brushes for taps.

Item No.	Description	Fitting
1900730	Brush for taps	Ø 20/300 mm long
1902989	Brush for taps	Ø 8/300 mm long



CLEANING BALL FOR TAPS

Item No.	Description
88.402.001	Bevi cleaning ball for taps (all spout diameters)
RE 1712	Cleaning ball for taps (all spout diameters)

RE 1712

88.402.001



Micro Matic Terms of Sale and Delivery (Version 1.3/01.01.14)

1. Conclusion of Contract

1.1. The Parties agree that CISG (United Nations Convention on Contracts for the International Sale of Goods) governs the Parties' conditions unless otherwise provided in the following amendments and additions and/or by the written agreement entered into between the Parties

2. Prices and Payment – Retention of Title

2.1. All prices are excl. VAT, public dues of any nature, transport etc.
 2.2. Until delivery of the goods, seller is entitled to increase the price equivalent to any price increase made by seller's sub-contractors, changes of rates of exchange, political events, direct or indirect taxes or other conditions which the seller cannot control.
 2.3. Payment is net 30 days on delivery. On late payment default interest is charged at a rate of 2 per cent per month. If payment is not made on time or if buyer omits to take/receive the goods sold once buyer is committed to do so, seller is entitled immediately and without further notice to cancel the sale.
 2.4. The ownership of the goods sold remains with seller in all respects until buyer effectively has paid the purchase price and all other costs attached to the purchase.

3. Time and Place of Delivery of Seller's Goods

3.1. Notified times of delivery are indicative only and subject to full approval of the contents of the agreement, for instance accepted drawings and finally confirmed dimensions. If full or partial prepayment has been agreed, it is a condition that such payments actually have been effected. Failing indication of an exact delivery date, but on the contrary a delivery period, such a period is counted from the date when seller has received all necessary information for fulfilment of the contract and provided that agreed prepayments, if any, have been effected.
 3.2. All deliveries are made "DAP" (EUROPE INCOTERMS 2010). The risk of the goods purchased passes to buyer on delivery. In cases where buyer is committed to collect the goods and seller keeps them ready, the risk passes to buyer already at that time. If it is agreed that delivery is to take place from a site other than seller's place of business, the transport is made to such site, incl. any loading, at buyer's own risk, unless otherwise expressly agreed.

4. Duty of Inspection and Notice of Lack of Conformity

4.1. Immediately on receipt, buyer shall inspect the goods thoroughly to ensure that the goods are conforming with and delivered according to the contract. If buyer at that time believes that the goods sold do not conform to the contract, buyer must **immediately** and not later than 8 days from delivery notify seller in writing if he will rely on nonconformity.
 4.2. If in respect of seller's goods or parts hereof buyer receives notice of lack of conformity from buyer's own customers or other users of seller's goods, buyer must immediately pass such notice in writing/tender the notice to seller. If buyer does not observe this duty, buyer may not put forward any claims of nonconformity or compensation against seller at a later stage and in the mutual relationship between buyer and seller buyer must indemnify seller against any claim rightly adjudicated directly from seller in favour of buyer's customers.
 4.3. If within 3 months from the time of delivery buyer has not made a written notice of lack of

con-formity, buyer is in all respects prevented from relying on any nonconformity, compensation or guarantee claims or other remedies whatsoever.

5. Nonconformity

5.1. If it becomes apparent that the goods do not conform to the contract, seller has the option to effect repairs or otherwise to redress. Only if within a reasonable time and on a reasonable number of repair attempts seller is not able to correct or make good the defect etc., buyer may arrange for repair by third party or claim a reduction in the purchase price. If buyer unjustly arranges for third party to repair, buyer may not in such cases claim cover of his costs in respect thereof from seller.
 5.2. In cases of short deliveries (quantitative lack of conformity) seller may make subsequent deliveries within a reasonable time, in which case buyer may not invoke breach. [Goods not deviating more than 5 per cent as compared to the agreed quantity are considered to fulfil the agreed quantity.]
 5.3. Buyer carries the full risk that seller's goods are suited for purposes particularly applicable for buyer.

6. Limitation of Liability

6.1. Seller is only liable for defects in seller's goods if buyer has used the goods as prescribed and in a sound manner, and according to seller's directions, if any. Seller's liability is limited to defects in seller's own goods and not to defects or faults that arise in connection with seller's goods being incorporated in or to those of others.
 6.2. The seller is not responsible for the buyer's selection of the product, including compatibility of the product, its use and results, unless the contract explicitly refers to these. The seller undertakes no responsibility for the buyer's selection of potential supplementary equipment and service requested for use with the product as well as application and results of same. The seller reserves the right to modify his products without notice as far as such modifications do not cause major restrictions of the applications.
 6.3. In no circumstances is seller liable for any loss on operations, time, profit margin or other indirect losses suffered by buyer or buyer's customers or other users of seller's goods. Buyer may not claim compensation to cover the costs incidental to dismantling and remounting the objects or installations, in which the goods might be incorporated.
 6.4. To the extent that seller is held liable towards third parties, buyer must hold seller harmless to the extent such liability exceeds the limits set out in these Terms.
 6.5. In no event may seller's liability for the goods supplied/or not supplied exceed 50 per cent of the value of individual, faulty products.

7. Product warranty

7.1. Notwithstanding the above item 4, however provided the buyer give notice of defects no later than 8 days after the defect' emergence/buyer becoming knowledgeable of the defects, the seller shall remedy any products showing defects within 24 months from the delivery time. The warranty does not cover wear and tear.
 7.2. The seller may choose to remedy by adjustment, repair or replacement of defective parts. Wages in connection with dismantling and assembly will not be compensated.
 7.3. If the product has been changed or serviced by any other than the seller or a repair operative referred by the seller, or if the product has suffered abuse, been used for purposes contrary to the seller's directions or purposes for which the products are not intended, the warranty shall

be annulled, including the seller's obligation to remedy the product without costs.

If the seller does not comply with his obligations as mentioned above within reasonable time, the buyer may demand a proportional deduction of the defective product's purchase price. However, the deduction may not exceed 20 % of the purchase price for the whole product. Alternatively, the buyer may choose to arrange for a third party to remedy the product. In which case the seller will refund the buyer's expenses in this respect, provided that the expenses does not exceed 20 % of the purchase price for the whole product, of which the defective part forms part.

7.4. Seller's obligations in respect of defective products are expanded as per the above. The seller is therefore not liable for direct or indirect loss, including operating loss, loss of revenue and similar costs or damages.

8. Product Liability

8.1. In the mutual relations between seller and buyer, seller excludes any liability for commercial property damage that may be attached to seller's goods. If seller is met with claims for damages for commercial property damage from buyer's customers, their customers or other later users of seller's goods, buyer in the relations between seller and buyer is committed to indemnify seller for any such claim and to cover seller's reasonable costs to any defence against that.

9. Intellectual Property Rights and Secrecy

9.1. All intellectual property rights to seller's goods together with all material delivered in this connection belongs to seller.
 9.2. Buyer has no right without seller's written consent to grant third party knowledge of technical or commercial information, which according to their nature are confidential or which seller at the time of making the contract or later had stated as confidential. All drawings, models and other technical documents on the goods, which prior to or after the making of the contract are handed from seller to buyer, remain the property of seller. Without seller's consent said material may alone be applied for the proper use or resale of the goods.

10. Force Majeure

10.1. In case of force majeure, seller is released from his obligations as long as the force majeure situation exists. Force majeure exists if seller or seller's sub-contractors are prevented from performing agreements governed by these Terms of Sale and Delivery as a consequence of events such as war, civil war, insurrection, terror actions, public restrictions, import or export bans, catastrophes of nature of any kind as well as extensive or local industrial conflicts, fire, power failure, computer viruses or alike, unless it is established that seller ought reasonably to have anticipated this at the time of making the contract.

11. Choice of Law and Venue

11.1. Any disputes arising out of or in connection with agreements between seller and buyer are to be settled pursuant to CISG at the district court where seller is domiciled or the Maritime and Commercial Court of Copenhagen (Sø- og Handelsretten i København), at seller's option.
 11.2. However, the seller is entitled to demand arbitration pursuant to the general rules of the Danish ACT on ARBITRATION (The Arbitral Tribunal is set up in Copenhagen). Settlement through the court or arbitration does not exclude the possibility of an injunction or that other preliminary remedies be carried through at the relevant venue.

1902989

1900730



Cleaning

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