



Since 1971



INJEKTORKING

PRODUCT RANGE & TECHNICAL DATA

17-01-2025 | S11E|EN

VARIO & LS

High Performance Mould Filling for
EPS | EPP | EPE | Neopor® | Arcel® | Piocelan®



FEEL THE BEAD



THE STORY OF KBM

A FAMILY COMPANY IN THE EPS INDUSTRY SINCE 1971



KBM ApS was founded in 1971

by the late Mr. Kjeld Bentzen and is today run by his son Mr. Michael Bentzen. Since the beginning, the company has been supplying the EPS industry with high quality machinery.

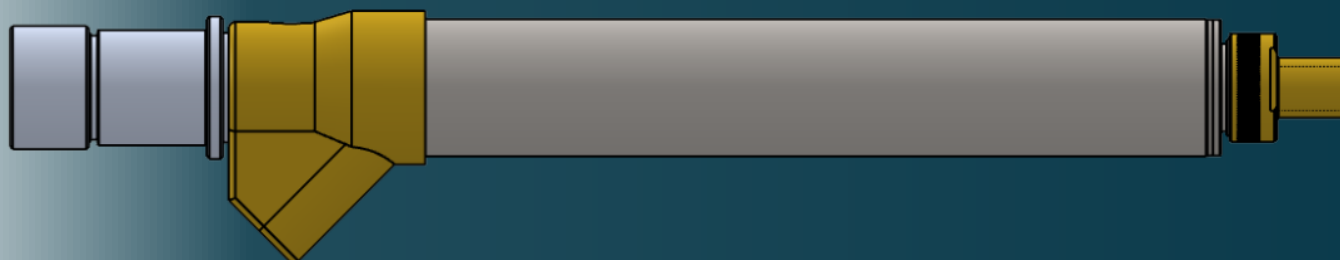
A few years later in 1975, the Injektorking Vario Injectors for EPS were developed, and in 1978 KBM developed the first real recycling plant for EPS; later the same systems were developed to be used for EPP and EPE.

Through out the years, KBM has designed recycling systems for companies of all sizes in the moulding industry. Combined crushers/compactors to handle post-consumer products of EPS, and mixing systems have also been added to the line of products.

CONTENTS

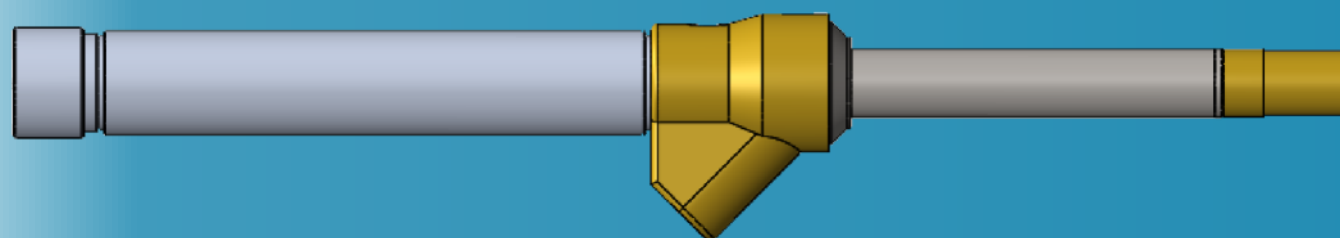


INJEKTORKING VARIO EPS/POWER/TURBO-COMBI	4
--	---



INJEKTORKING VARIO

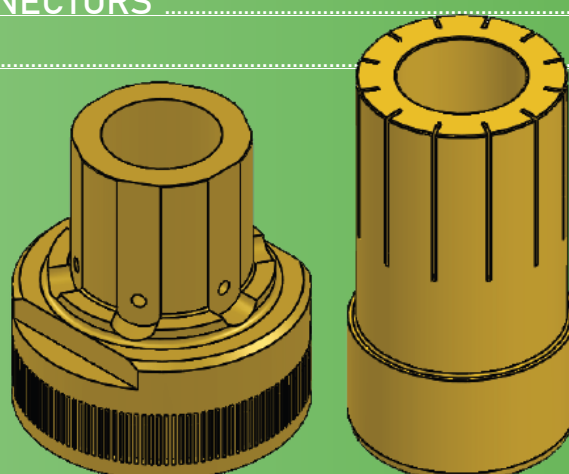
INJEKTORKING LS	9
-----------------------	---



INJEKTORKING LS

HOW TO CONNECT VARIO & LS	13
QUICK-CLAMP QUICK GUIDE	14
QUICK GUIDE: CONTROL THE AIR PRESSURE AND VACUUM WITH VARIO	15
CONNECTORS & SEALS	16
CLAMP RINGS	18
TIPS FOR VARIO & LS	20
HOW TO DISTINGUISH THE DIFFERENT INJEKTORKING MODELS	21
INJEKTORKING VARIO & LS WITH 3 AIR CONNECTORS	22
INJEKTORKING ORDER FORM	23

AUXILIARIES & INFORMATION





Technical Data sheet

INJEKTORKING VARIO

Injector fill gun suited for EPS/EPP/EPE/ARCEL®/NEOPOR®/
PIOCELAN®(Graphite)

Brand name:

Injektorking Vario EPS

Suited for regular EPS.

Injektorking Vario POWER

Suited for high density EPS, ARCEL®, NEOPOR®, PIOCELAN®

Injektorking Vario Turbo/Combi

Suited for high density EPS, EPP, EPE, ARCEL®, NEOPOR®,
PIOCELAN®

Material

Stainless Steel, Brass, Aluminium

Available standard specifications:

Barrel length (AAA) 230, 330, 430, 530, 630, 730 mm

Barrel diameter (BB) 40, 42, 42x1,5, 50 mm

Tip OD (CC) 12 - 36 mm

Piston plunger (DD) 10, 12, 16, 18, 20 mm

Tip length (LL) 5 - 75 mm

Total length 490 - 890 mm

Ejector (FFF), optional 100 mm

Material in-let thread

1"

Seals::

1 x U-seal + 1 x Double-lip seal

See accessories list for detailed description

Air connections:

1 x Open & filling air 1/4" (3/8" for T/C & POWER)

1 x Closing air 1/4"

Air consumption

(All VARIOKING injectors are
calibrated at 6 bar pressure)

KBM VARIO system.

VARIO EPS: 60 - 180 l/min

VARIO POWER: 100 - 260 l/min

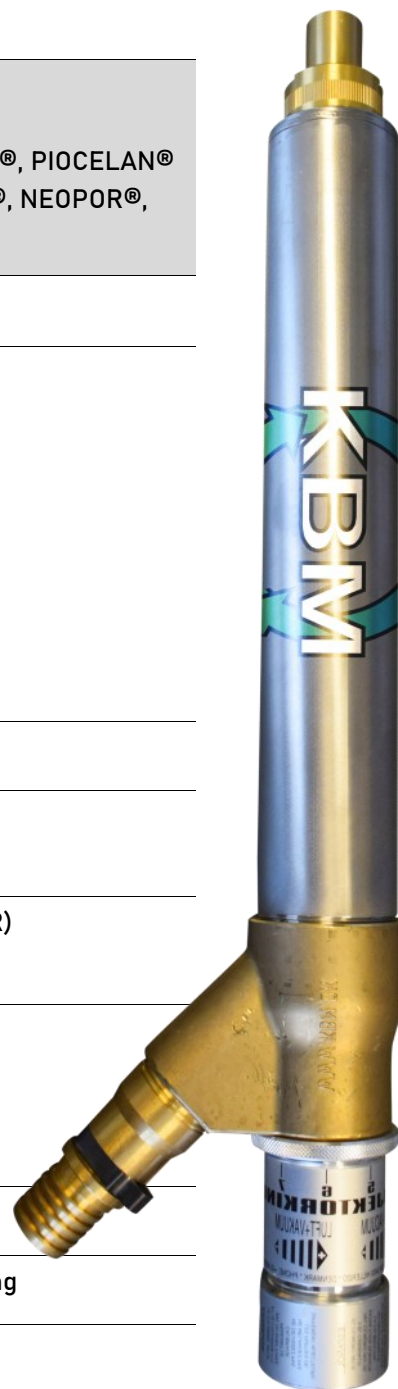
VARIO TURBO/COMBI: 100 - 260 l/min

Blow-back function

Yes

3C air connection

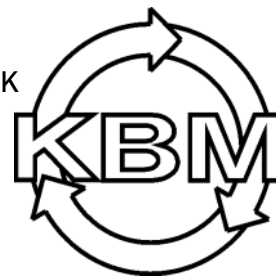
Optional - 3 connections for open, close & filling



KBM APS | VOELUNDSVEJ 13 | 3400 HILLEROED | DENMARK

Phone +45 4826 8090 / www.kbm.dk / kbm@kbm.dk

KBM ApS guarantees that the product meets the specification above. The keeping, handling and use of the products are beyond the control of KBM ApS, and therefore shall not invoke any responsibility of the company. This TD substitutes and deletes all previous versions.



Technical Data sheet

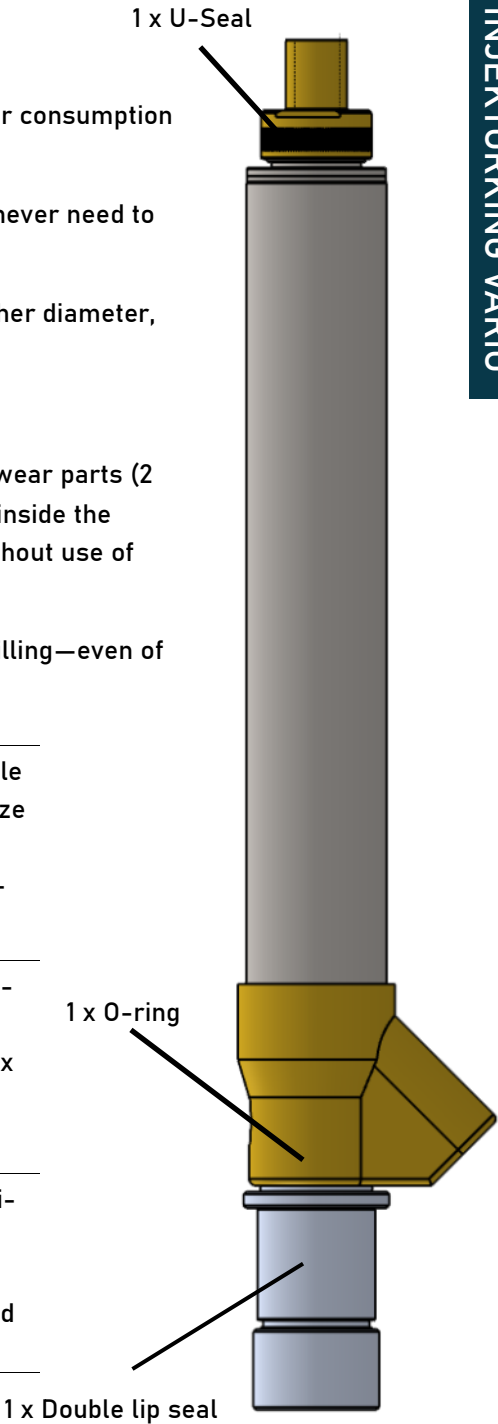
INJEKTORKING VARIO

Injector fill gun suited for EPS/EPP/EPE/ARCEL®/NEOPOR®/PIOCELAN®(Graphite)

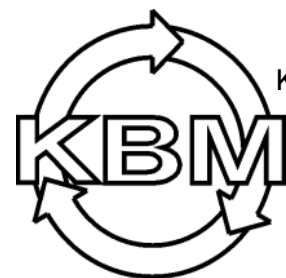
INJEKTORKING KEY BENEFITS

- MINIMAL AIR CONSUMPTION: By maximum setting on KBM injectors, air consumption is less than half of most other major suppliers of injectors.
- STEPLESS VARIABLE ADJUSTMENT of the air volume, means you will never need to introduce more air than needed to fill the mould.
- FAST MAINTANENCE: It takes just 30 seconds to change the tip to another diameter, and tips are available in all sizes ranging from 18-36 mm.
- Build-in "Blow-back on time" after closed function.
- Simple design and extremely low and fast maintenance: To change all wear parts (2 seals) takes 2-3 minutes. To change the U-seal, which is the only seal inside the steam chamber takes 30 seconds. All parts are dismantled by hand without use of tools.
- Designed also for use with pressure filling systems, allowing optimal filling—even of thin-walled sections.

INJEKTORKING VARIO EPS	Very low energy fill injector with adjustable air/vacuum setting. Enables you to optimize your energy consumption, while still maintaining good filling. Perfect for all regular EPS moulding tasks.
INJEKTORKING VARIO EPS POWER	The fill injector for demanding tasks. Combine a low air consumption with a higher vacuum, ensuring a good filling of complex moulds and higher densities. Fills almost all materials.
INJEKTORKING VARIO TURBO/COMBI	The fill injector for all materials and densities. EPS, EPP, EPE, ARCEL®, NEOPOR®, PIOCELAN®. Same air/vacuum profile as the VARIO EPS Power ensures a very good

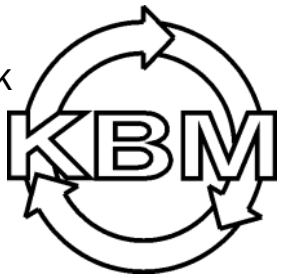


INJEKTORKING VARIO



KBM APS | VOELUNDSVEJ 13 | 3400 HILLEROED | DENMARK
Phone +45 4826 8090 / www.kbm.dk / kbm@kbm.dk

KBM ApS guarantees that the product meets the specification above. The keeping, handling and use of the products are beyond the control of KBM ApS, and therefore shall not invoke any responsibility of the company. This TD substitutes and deletes all previous versions.





Technical Data sheet INJEKTORKING VARIO

Injector fill gun suited for EPS/EPP/EPE/ARCEL®/NEOPOR®/
PIOCELAN®(Graphite)

EXAMPLES:

TYPE	AAA	BB	CC	DD	Total	FFF
330/40/18-36/16	330mm	40mm	18-36mm*	16mm	490mm	
330/40/18-36/16/100	330mm	40mm	18-36mm*	16mm	690mm	100mm**
530/40/18-36/16	530mm	40mm	18-36mm*	16mm	690mm	
530/40/18-36/16/100	530mm	40mm	18-36mm*	16mm	890mm	100mm**
330/42/18-36/16	330mm	42mm	18-36mm*	16mm	490mm	
330/42/18-36/16/100	330mm	42mm	18-36mm*	16mm	690mm	100mm**
530/42/18-36/16	530mm	42mm	18-36mm*	16mm	690mm	
530/42/18-36/16/100	530mm	42mm	18-36mm*	16mm	890mm	100mm**
430/42x1,5/18-36/16	430mm	42x1,5	18-36mm*	16mm	640mm	
430/42x1,5/18-36/16/100	430mm	42x1,5	18-36mm*	16mm	840mm	100mm**
230/50/18-36/16	230mm	50mm	18-36mm*	16mm	390mm	
330/50/18-36/16	330mm	50mm	18-36mm*	16mm	490mm	
330/50/18-36/16/100	330mm	50mm	18-36mm*	16mm	690mm	100mm**
430/50/18-36/16	430mm	50mm	18-36mm*	16mm	590mm	
530/50/18-36/16	530mm	50mm	18-36mm*	16mm	690mm	
530/50/18-36/16/100	530mm	50mm	18-36mm*	16mm	890mm	100mm**
330/50/20-36/18	330mm	50mm	20-36mm*	18mm	490mm	
330/50/22-36/20	330mm	50mm	22-36mm*	20mm	490mm	

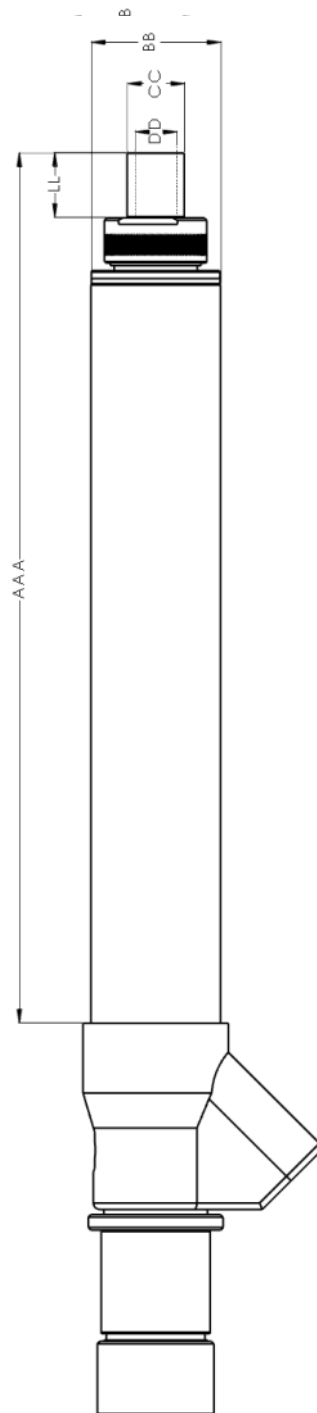
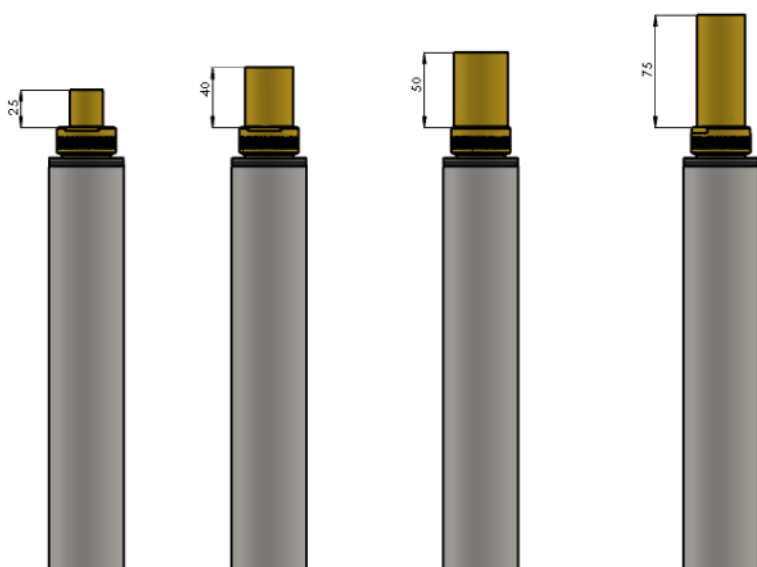
* Exchangeable tip - It takes 30 seconds to change size.

** Built-in Ejector movement.

DD (Plunger piston) available in: 10, 12, 16, 18, 20 mm

Standard tip length 25 mm

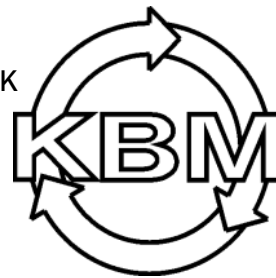
Custom sizes also available



KBM APS | VOELUNDSVEJ 13 | 3400 HILLEROED | DENMARK

Phone +45 4826 8090 / www.kbm.dk / kbm@kbm.dk

KBM ApS guarantees that the product meets the specification above. The keeping, handling and use of the products are beyond the control of KBM ApS, and therefore shall not invoke any responsibility of the company. This TD substitutes and deletes all previous versions.



Technical Data sheet

INJEKTORKING VARIO

Injector fill gun suited for EPS/EPP/EPE/ARCEL®/
NEOPOR®/PIOCELAN®(Graphite)

OVERVIEW

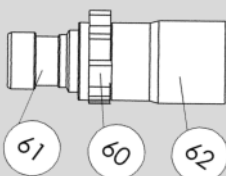
1. Piston plunger
2. U-seal
3. Outside barrel
4. Tip
5. Casing
6. Inside barrel
7. Piston shaft
8. Air cylinder pipe
9. Piston
10. Air cylinder cap
11. Counter nut
13. Air orifice
14. Nut
15. Self-locking nut
16. O-ring
17. Double lip seal

Ejector parts:

20. Spring
21. Spring base
22. Spring nut
23. Piston plunger ejector
24. Set screw
25. Cylinder connector
26. Air cylinder pipe

Quick clamp (Combi):

60. Clip
61. Hose stub
62. Connecting piece



VARIO SYSTEM: STEPLESS AIR CONTROL

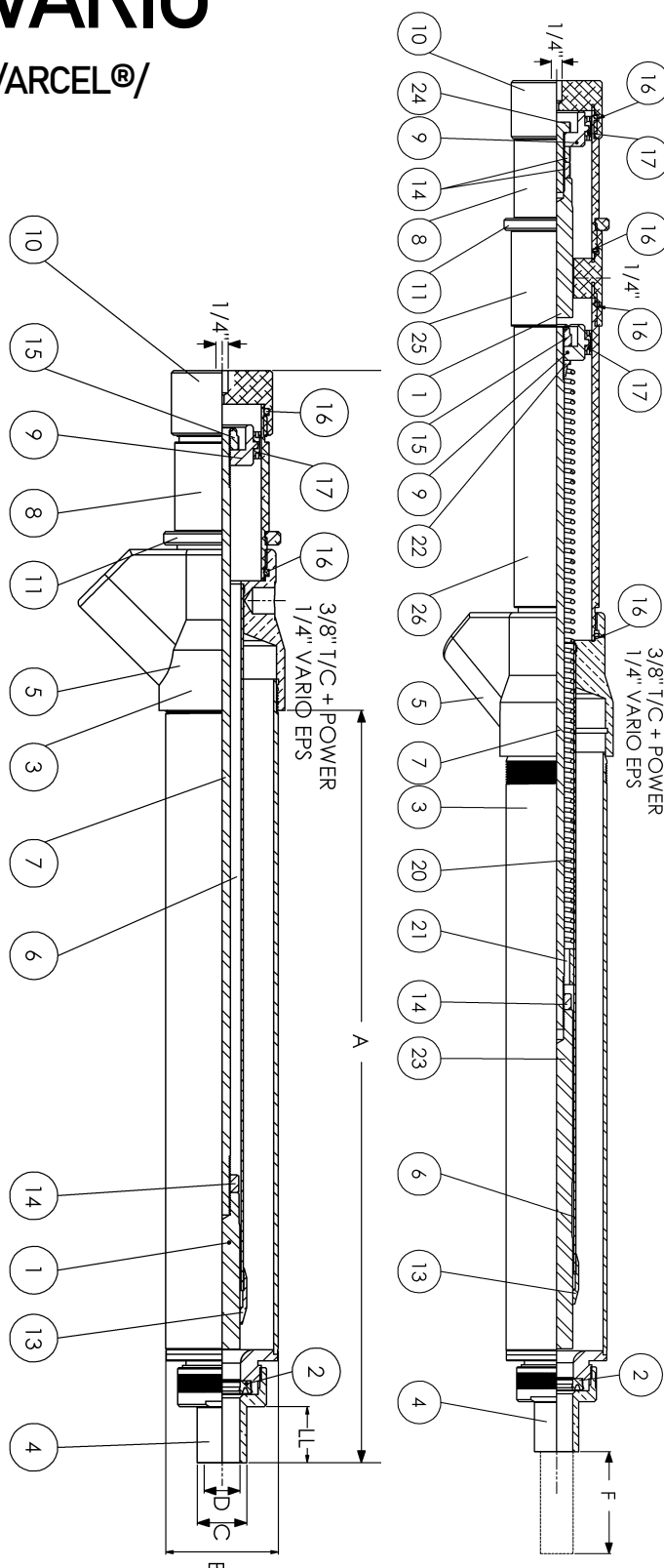
is calibrated for a minimum of 60 l/min air consumption at 6 bar. This is equal to 159 Nominal l/min.

$$(NI/Min = \sqrt{\text{Bar} + 1} \times \text{air volume})$$

Example: 60 l at 6 bar: $\sqrt{6 + 1} \times 60 = 159 \text{ NI/Min}$

One position adjustment on the scale is equal to approx. 15 l/min.

The Power and TURBO/COMBI versions are calibrated for a minimum of 100 l/min air consumption at 6 bar and a max. air consumption of 260 l/min.



INJEKTORKING VARIO EPS VARIO POWER-VARIO T/C WITH EJECTOR – (EPS, EPP, EPE, ARCEL and NEOPOR) etc.

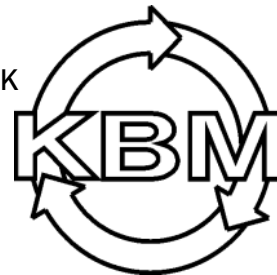
INJEKTORKING VARIO



KBM APS | VOELUNDSVEJ 13 | 3400 HILLEROED | DENMARK

Phone +45 4826 8090 / www.kbm.dk / kbm@kbm.dk

KBM ApS guarantees that the product meets the specification above. The keeping, handling and use of the products are beyond the control of KBM ApS, and therefore shall not invoke any responsibility of the company. This TD substitutes and deletes all previous versions.



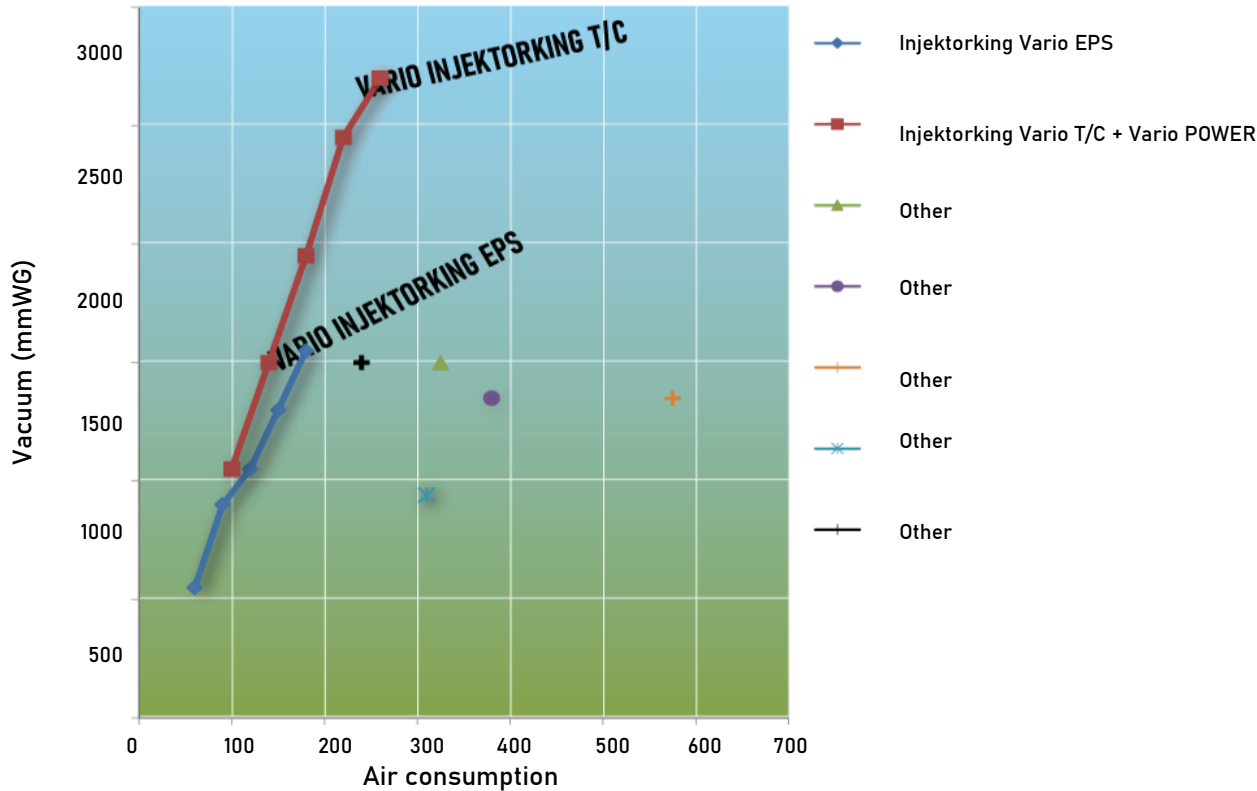


Technical Data sheet

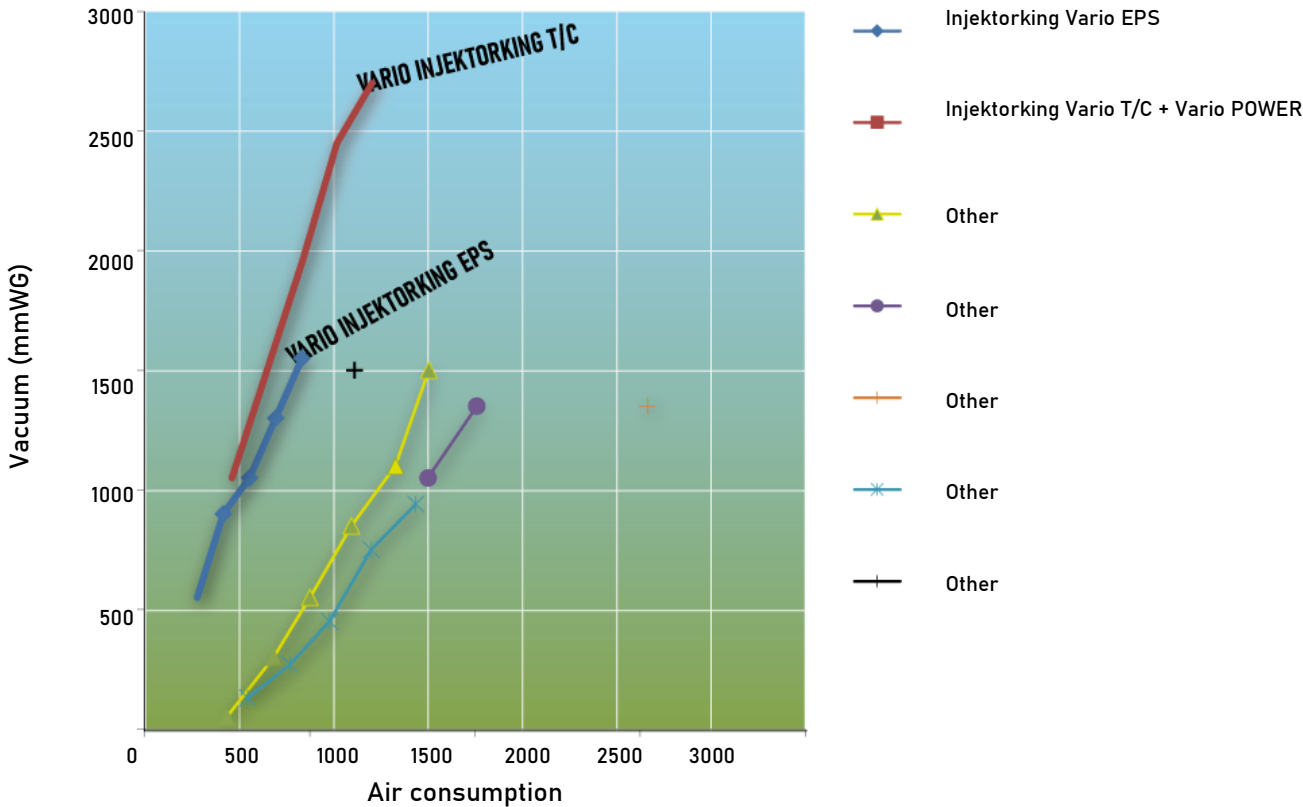
INJEKTORKING VARIO

Injector fill gun suited for EPS/EPP/EPE/ARCEL®/NEOPOR®/PIOCELAN®(Graphite)

Air consumption by 6 Bar



Nominal air consumption (pressure unrelated) = Consumption * sqrt(Bar+1)

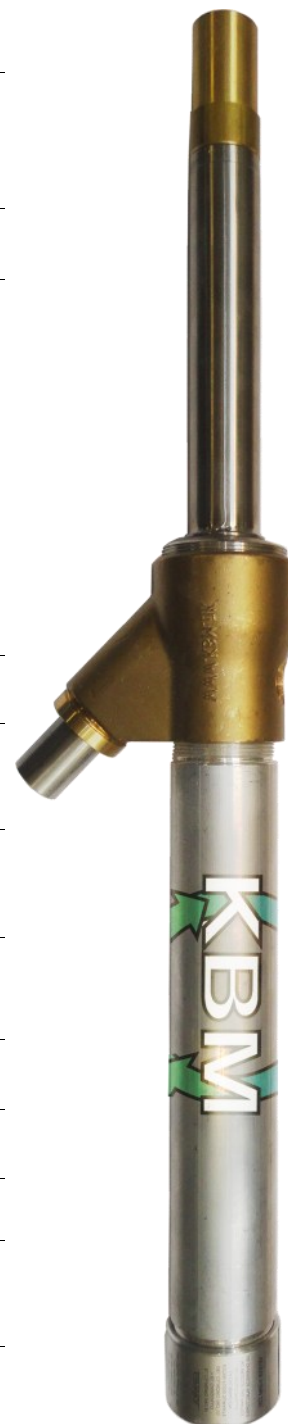


Technical Data sheet

INJEKTORKING LS

Injector fill gun suited for EPS/EPP/EPE/ARCEL®/NEOPOR®/PIOCELAN®(Graphite)

Brand name:	
Injektorking LS	Suited for regular EPS, high density EPS, EPP, EPE, ARCEL®, NEOPOR®, PIOCELAN®
Material	Stainless Steel, Brass, Aluminium
Available standard specifications:	
Barrel length (AAA)	200, 230, 300, 330, 400, 430, 530 mm
Barrel diameter (BB)	M28x1,0, 28, 30, 32, 33, 40, 42, 50, M42x1,5 mm
Tip OD (CC)	10 - 38 mm
Piston plunger (DD)	8, 10, 12, 16, 18, 20, 24 mm
Tip length (LL)	5 - 61 mm
Total length	390 - 1020 mm
Ejector (FFF), optional	100 mm
Material in-let thread	1"
Seals::	1 x U-seal + 1 x Double-lip seal + 1 x Bushing seal <i>See accessories list for detailed description</i>
Air connections:	1 x Open & filling air 1/4" 1 x Closing air 1/4"
Air consumption (Fixed air consumption)	120 l/min by 6 bar
Blow-back function	Yes
3C air connection	Optional - 3 connections for open, close & filling
Steam core vent	Optional
Contour filler (Non-rotating plunger)	Optional

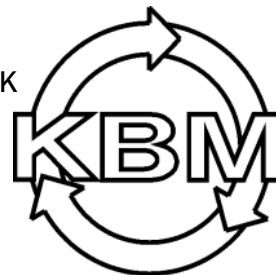


INJEKTORKING LS



KBM APS | VOELUNDSVEJ 13 | 3400 HILLEROED | DENMARK
Phone +45 4826 8090 / www.kbm.dk / kbm@kbm.dk

KBM ApS guarantees that the product meets the specification above. The keeping, handling and use of the products are beyond the control of KBM ApS, and therefore shall not invoke any responsibility of the company. This TD substitutes and deletes all previous versions.





Technical Data sheet INJEKTORKING LS

Injector fill gun suited for EPS/EPP/EPE/ARCEL®/NEOPOR®/
PIOCELAN®(Graphite)

INJEKTORKING LS KEY BENEFITS

- VERY LOW AIR CONSUMPTION: General very low air consumption with high vacuum for a good filling.
- DURABLE DESIGN: Durable design with critical parts manufactured in stainless steel, provides a long life time.
- LONG LIFE TIME OF SEALS: The quality of seals is crucial for an uninterrupted production. KBM seals offer long life time thus fewer production stops.
- BUILD-IN "BLOW-BACK ON TIME" after closed function.
- SIMPLE DESIGN AND LOW MAINTANENCE: To change all wear parts (3 seals) takes maximum 5 minutes. To change the U-seal, which is the only seal inside the steam chamber, takes 30 seconds. All parts are dismantled by hand without use of tools.
- DESIGNED ALSO FOR USE WITH PRESSURE FILLING SYSTEMS, allowing optimal filling, even of thin-walled sections too.

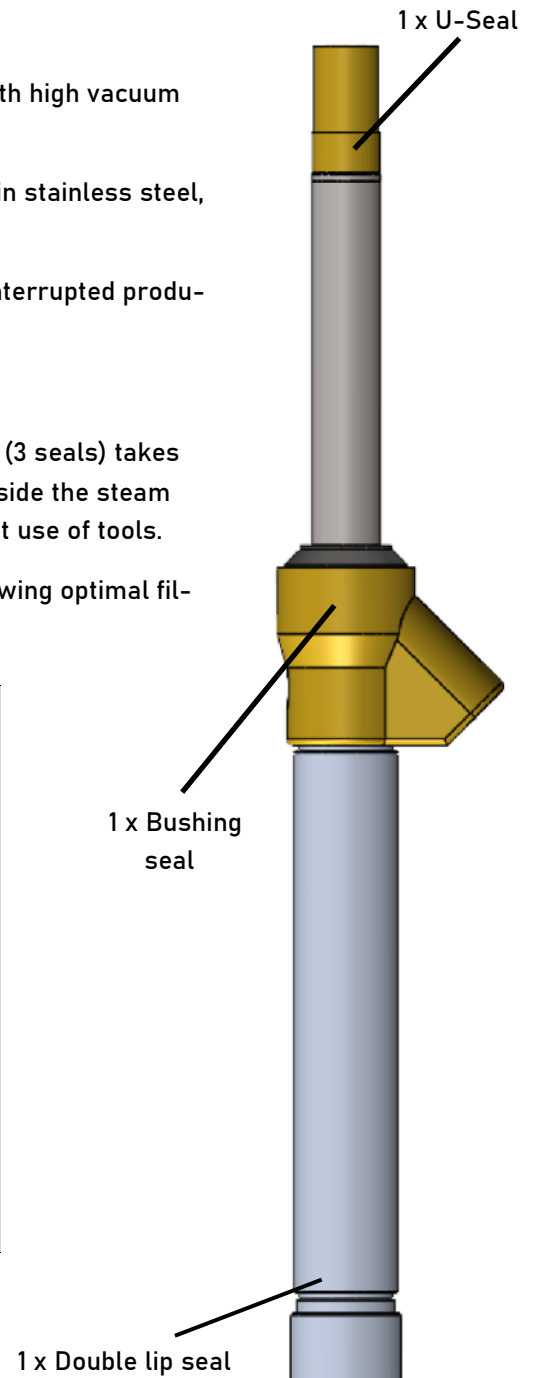
INJEKTORKING LS

Very low energy fill injector with a fixed air/vacuum setting.
Perfect for all types of shape moulding.

The solid design in stainless steel enables moulding with a wide range of raw materials e.g. EPS, EPP, EPE, ARCEL®, NEOPOR®, PIOCELAN®.

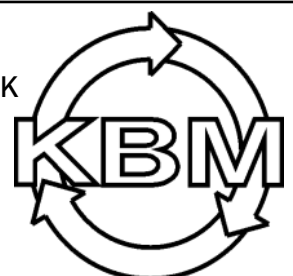
A simple construction and a low weight means that no parts are damaged due to the weight of the injector during mounting in the mould, and offers a very easy maintenance with all parts to be dismantled by hand without use of special tools.

The INJEKTORKING LS is pre-calibrated for 120 l/min (4.25 CuFt/min) air consumption by 6 bar (87 PSI), equal to 317 nominal l/min (11.2 CuFt/min).



KBM APS | VOELUNDSVEJ 13 | 3400 HILLEROED | DENMARK
Phone +45 4826 8090 / www.kbm.dk / kbm@kbm.dk

KBM ApS guarantees that the product meets the specification above. The keeping, handling and use of the products are beyond the control of KBM ApS, and therefore shall not invoke any responsibility of the company. This TD substitutes and deletes all previous versions.



Technical Data sheet

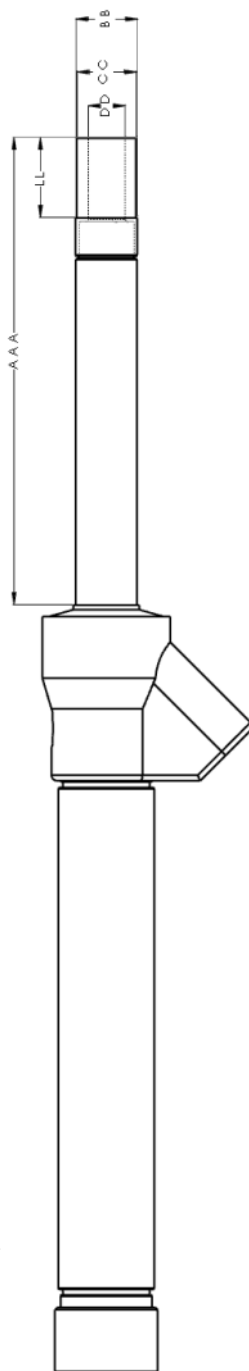
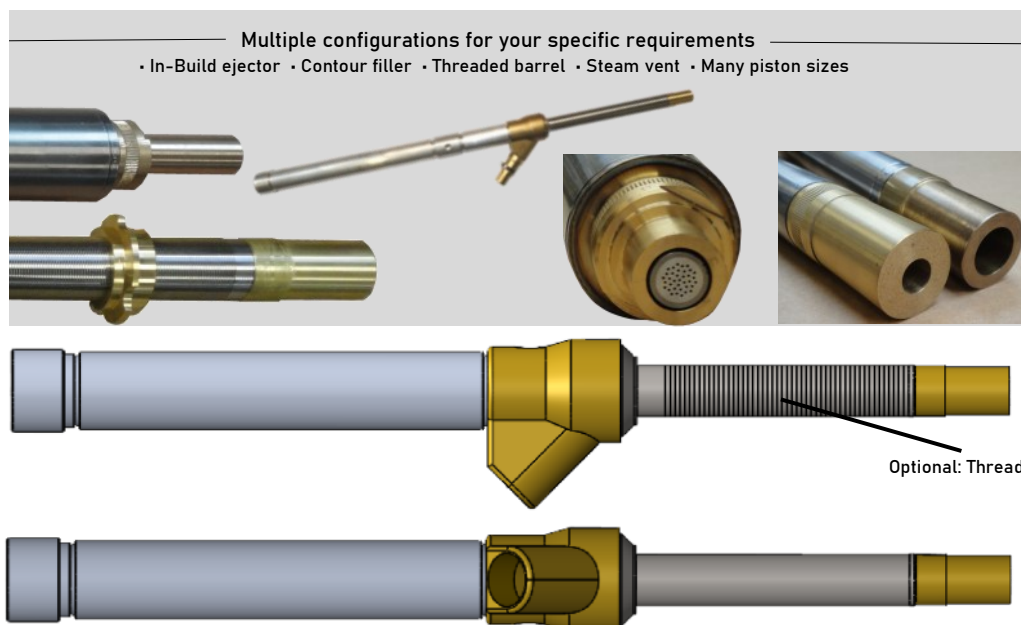
INJEKTORKING LS

Injector fill gun suited for EPS/EPP/EPE/ARCEL®/NEOPOR®/PIOCELAN®(Graphite)

EXAMPLES:

TYPE	AAA	BB	CC	DD	Total
8 mm piston plunger:					
200/BB/10-26/08	200mm	M28x1,0 28, 30, 32, 33, 40, 42, 50 mm	10-26mm	8mm	390mm
300/BB/10-26/08	300mm	M28x1,0 28, 30, 32, 33, 40, 42, 50 mm	10-26mm	8mm	490mm
400/BB/10-26/08	400mm	M28x1,0 28, 30, 32, 33, 40, 42, 50 mm	10-26mm	8mm	690mm
10 mm piston plunger:					
200/BB/12-26/10	200mm	M28x1,0 28, 30, 32, 33, 40, 42, 50 mm	12-26mm	10mm	390mm
300/BB/12-26/10	300mm	M28x1,0 28, 30, 32, 33, 40, 42, 50 mm	12-26mm	10mm	490mm
400/BB/12-26/10	400mm	M28x1,0 28, 30, 32, 33, 40, 42, 50 mm	12-26mm	10mm	590mm
12 mm piston plunger:					
200/BB/14-26/12	200mm	M28x1,0 28, 30, 32, 33, 40, 42, 50 mm	14-26mm	12mm	390mm
300/BB/14-26/12	300mm	M28x1,0 28, 30, 32, 33, 40, 42, 50 mm	14-26mm	12mm	490mm
400/BB/14-26/12	400mm	M28x1,0 28, 30, 32, 33, 40, 42, 50 mm	14-26mm	12mm	690mm
16 mm piston plunger:					
200/BB/18-26/16	200mm	M28x1,0 28, 30, 32, 33, 40, 42, 50 mm	18-26mm	16mm	545mm
200/BB/18-26/16/110* (with ejector)	200mm	M28x1,0 28, 30, 32, 33, 40, 42, 50 mm	18-26mm	16mm	820mm
300/BB/18-26/16	300mm	M28x1,0 28, 30, 32, 33, 40, 42, 50 mm	18-26mm	16mm	745mm
300/BB/18-26/16/110* (with ejector)	300mm	M28x1,0 28, 30, 32, 33, 40, 42, 50 mm	18-26mm	16mm	1020mm
16, 18, 20 and 24mm piston plunger:					
230/BB/18-38/DD	230mm	40, 42, 50 mm	18-38mm	16, 18, 20, 24mm	
330/BB/18-38/DD	330mm	40, M42x1,5 42, 50 mm	18-38mm	16, 18, 20, 24mm	
430/BB/18-38/DD	430mm	40, M42x1,5 42, 50 mm	18-38mm	16, 18, 20, 24mm	
530/BB/18-38/DD	530mm	40, 42, 50 mm	18-38mm	16, 18, 20, 24mm	

*Built-in 110 mm ejector movement.

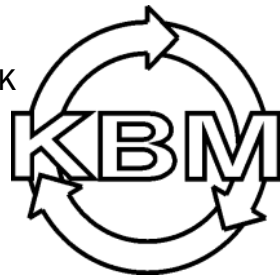


INJEKTORKING LS



KBM APS | VOELUNDSVEJ 13 | 3400 HILLEROED | DENMARK
Phone +45 4826 8090 / www.kbm.dk / kbm@kbm.dk

KBM ApS guarantees that the product meets the specification above. The keeping, handling and use of the products are beyond the control of KBM ApS, and therefore shall not invoke any responsibility of the company. This TD substitutes and deletes all previous versions.





Technical Data sheet INJEKTORKING LS

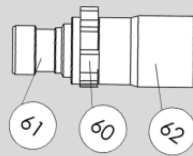
Injector fill gun suited for EPS/EPP/EPE/ARCEL®/NEOPOR®/
PIOCELAN®(Graphite)

OVERVIEW

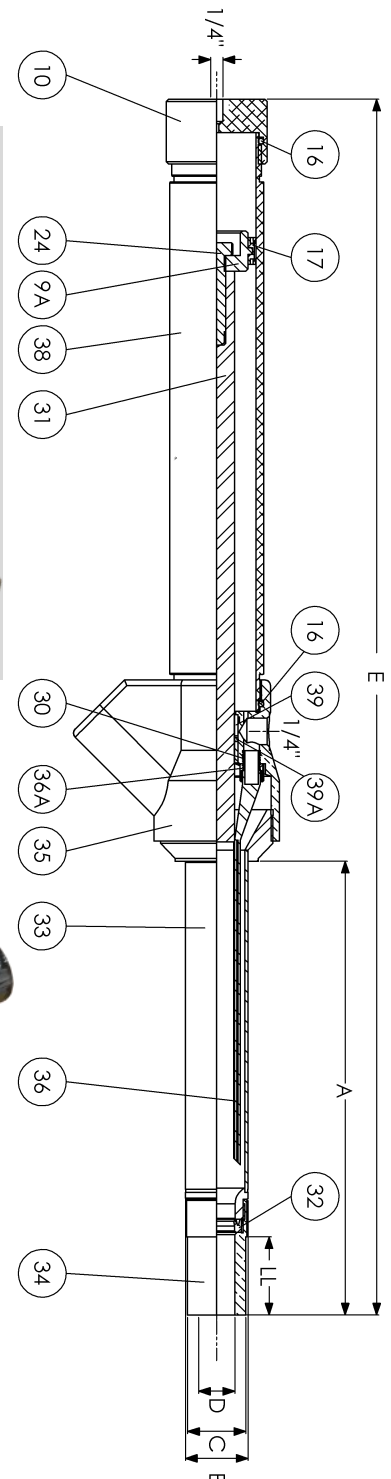
- 9. Piston
- 10. Air cylinder cap
- 16. O-ring
- 17. Double lip seal
- 24. Set screw M8x30
- 30. 2x Allen screw M6x8
- 31. Piston plunger
- 32. U-seal (Teflon)
- 33. Outside barrel
- 34. Tip
- 35. Casing
- 36. Blow pipe
- 36A. Union nut
- 38. Air cylinder
- 39. Bushing/ Seal
- 39A. O-ring

Quick clamp (Combi):

- 60.Clip
- 61.Hose stub
- 62.Connecting piece



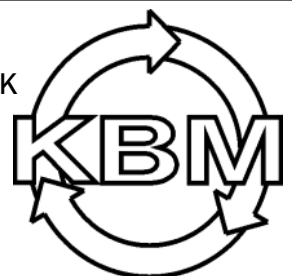
KBM supplies a complete range of connectors, clamp rings and seals with short lead times. See the complete range in our accessories list.



KBM APS | VOELUNDSVEJ 13 | 3400 HILLEROED | DENMARK

Phone +45 4826 8090 / www.kbm.dk / kbm@kbm.dk

KBM ApS guarantees that the product meets the specification above. The keeping, handling and use of the products are beyond the control of KBM ApS, and therefore shall not invoke any responsibility of the company. This TD substitutes and deletes all previous versions.



Technical Data sheet

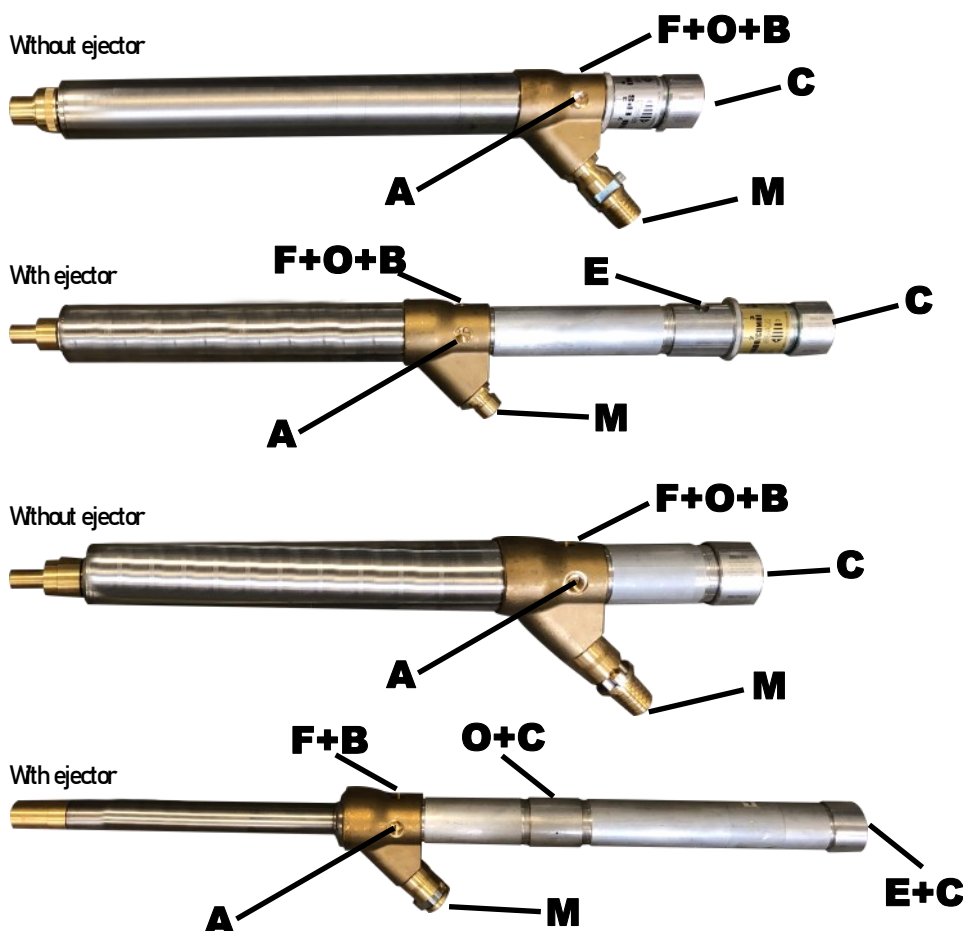
INJEKTORKING

HOW TO CONNECT INJEKTORKING VARIO & LS

The KBM Injektorking fill guns are equipped with fewer connections than many other fill guns (as for the reason that) some connections are used for multiple purposes.

F = Filling
O = Opening
C = Closing
E = Ejection (Ejector models only)
M = Material Inlet

B = Blowback - To utilize the "blowback on time" after closed function, compressed air on "INJEKTOR OPEN/FILL" air must remain 1-2 seconds after air "INJEKTOR CLOSE" is switched on.
A = Blind hole



INJEKTORKING VARIO

Connect filling (venturi) air to the filling air "F+O+B". It will also open at the same time.

The filling air will first open and then fill.

Do not connect opening air !

Connect "C" to closing air.

INJEKTORKING LS

Without ejector:

Please see notes above for the VARIO types.

With ejector:

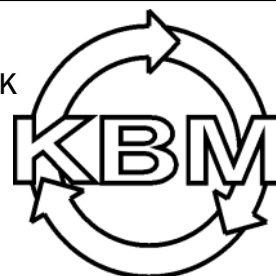
To close the fill gun, both connections marked "C" must be activated at the same time with the same pressure.



KBM APS | VOELUNDSVEJ 13 | 3400 HILLEROED | DENMARK

Phone +45 4826 8090 / www.kbm.dk / kbm@kbm.dk

KBM ApS guarantees that the product meets the specification above. The keeping, handling and use of the products are beyond the control of KBM ApS, and therefore shall not invoke any responsibility of the company. This TD substitutes and deletes all previous versions.





Technical Data sheet

KBM QUICK CLAMP

QUICK-GUIDE



Spring in "closed" position
Feder in Zustand "Geschlossen"
Ressort en position "Fermé"
Resorte en posición "cerrado"
Fjeder i "lukket" position



Push spring sideways
Feder seitwärts drücken
Poussez le ressort de côté
Empuje el resorte de lado
Tryk fjeder sidelæns



In 90° angle it is "open"
In Winkel von 90° ist es "offen"
En angle de 90° c'est "ouvert"
En ángulo de 90° está "abierto"
I 90° vinkel er den "åben"



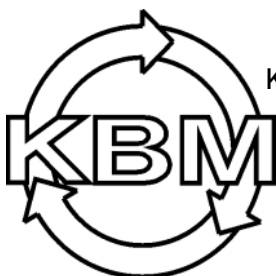
Insert the hose stub
Die Schlauchtülle einstecken
Insérez le joint de tuyau
Inserte el trozo de manguera
Indsæt slangestuds



Pull spring 90° back to "closed"
Feder 90° zurückziehen an "Zu"
Tirez le ressort 90° en arrière à "fermé"
Tire resorte 90° hacia atrás a "cerrado"
Træk fjederen 90° tilbage til "lukket"

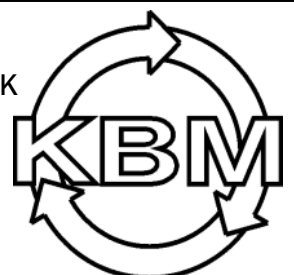


The hose stub is now connected
Die Schlauchtülle ist jetzt verbunden
Joint de tuyau est maintenant connecté
El trozo de manguera ahora conectado
Slangestuds er nu forbundet



KBM APS | VOELUNDSVEJ 13 | 3400 HILLEROED | DENMARK
Phone +45 4826 8090 / www.kbm.dk / kbm@kbm.dk

KBM ApS guarantees that the product meets the specification above. The keeping, handling and use of the products are beyond the control of KBM ApS, and therefore shall not invoke any responsibility of the company. This TD substitutes and deletes all previous versions.



Technical Data sheet

INJEKTORKING VARIO

QUICK-GUIDE: CONTROL THE AIR PRESSURE AND VACUUM WITH VARIO

INJEKTORKING VARIO

The INJEKTORKING VARIO is calibrated to a minimum air consumption of 60 l/min at 6 bar pressure, when the cylinder is in completely closed position (position 0).

	INJEKTORKING EPS	INJEKTORKING POWER + TURBO/COMBI
(Max values)		
Pos. 0:	60 l/min	100 l/min
Pos. 1	75 l/min	120 l/min
Pos. 2	90 l/min	140 l/min
Pos. 3	105 l/min	160 l/min
Pos. 4	120 l/min	180 l/min
Pos. 5	135 l/min	200 l/min
Pos. 6	150 l/min	220 l/min
Pos. 7	165 l/min	240 l/min
Pos. 8	180 l/min	260 l/min

The cylinder may only be turned one round from the closed position and after every adjustment, the counter nut must be carefully tightened.

To utilize the blowback ON TIME after closed function, compressed air on "open/filling" air must remain 1 second after "closing" air is switched on.

The air pressure on "injector close" must be as a minimum, the same as the "open/filling" air pressure.

When the "open/filling" air is switched on, the "closing" air must be switched off earlier or simultaneously.

By exchanging the U-seal, DO NOT use any tools! The use of tools may damage the U-seal.

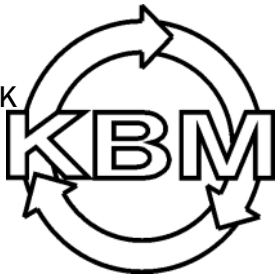
Important!

USE 12/10mm hose for INJEKTORKING POWER + TURBO/COMBI for "Open/filling" air.



KBM APS | VOELUNDSVEJ 13 | 3400 HILLEROED | DENMARK
 Phone +45 4826 8090 / www.kbm.dk / kbm@kbm.dk

KBM ApS guarantees that the product meets the specification above. The keeping, handling and use of the products are beyond the control of KBM ApS, and therefore shall not invoke any responsibility of the company. This TD substitutes and deletes all previous versions.





Technical Data sheet CONNECTORS

QUICK-CLAMP COMBI

Quick-clamp COMBI / Schnellkupplung COMBI / Accouplement rapide COMBI / Abrazadera rápida COMBI

Hose/Schlauch/Tuyau/Manguera:

20mm, 22mm(7/8") / 25mm(1") / 30mm / 32mm(1 1/4")

COMPLETE SET 1" THREAD

Item No.	
20mm	10932.00
22mm	10907.00
25mm	10908.00
30mm	10942.00
32mm	10909.00



COMPLETE SET M24X2MM THREAD

Item No.	
20mm	10931.00
22mm	10901.00
25mm	10903.00
30mm	10941.00
32mm	10905.00



COMPLETE SET Ø22 SMOOTH

Item No.	
20mm	10930.00
22mm	10900.00
25mm	10902.00
30mm	10940.00
32mm	10904.00



QUICK-CLAMP FEMALE PART

Item No.	
1" thread	10911.00
M24X2MM thread	10913.00
Smooth Ø22mm	10912.00



QUICK-CLAMP MALE PART

Item No.	
20mm	10915.00
22mm	10914.00
25mm	10916.00
30mm	10917.00
32mm	10918.00



QUICK-CLAMP O-RING

19914.00

QUICK-CLAMP SPRING

10910.00



QUICK-CLAMP MULTI

Quick-clamp MULTI EPS/EPP

Schnellkupplung MULTI EPS/EPP

Accouplement rapide MULTI PSE/PPE

Abrazadera rápida MULTI EPS/EPP

COMPLETE SET 1" THREAD

Item No.	
22mm (7/8")	11931.00
25mm (1")	11933.00
32mm (1 1/4")	11935.00



COMPLETE SET M24X2MM THREAD

Item No.	
22mm (7/8")	11930.00
25mm (1")	11932.00
32mm (1 1/4")	11934.00



QUICK-CLAMP MULTI FEMALE PART

Item No.	
1" thread	11941.00
M24X2MM thread	11940.00



QUICK-CLAMP MULTI MALE PART

Item No.	
22mm (7/8")	11942.00
25mm (1")	11944.00
32mm (1 1/4")	11946.00



Parts for MULTI QUICK CLAMP

19914.00	11950.00
11954.00	11952.00
16500.00	



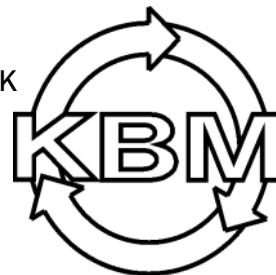
Turbo/
Combi
(T/C)



KBM APS | VOELUNDSVEJ 13 | 3400 HILLEROED | DENMARK

Phone +45 4826 8090 / www.kbm.dk / kbm@kbm.dk

KBM ApS guarantees that the product meets the specification above. The keeping, handling and use of the products are beyond the control of KBM ApS, and therefore shall not invoke any responsibility of the company. This TD substitutes and deletes all previous versions.



Technical Data sheet

CONNECTORS & SEALS

QUICK-CLAMP TURBO/COMBI (T/C) EPS/EPP

Schnellkupplung T/C EPS/EPP
Accouplement rapide T/C PSE/PPE
Abrazadera rápida T/C EPS/EPP

COMPLETE SET 1" THREAD	Item No.
22mm (7/8")	11901.00
25mm (1")	11903.00
32mm (1 1/4")	11905.00

COMPLETE SET M24X2MM THREAD	Item No.
22mm (7/8")	11900.00
25mm (1")	11902.00
32mm (1 1/4")	11904.00

QUICK-CLAMP T/C FEMALE PART	Item No.
3/4" Thread	11912.00
1" thread	11919.00

QUICK-CLAMP T/C MALE PART	Item No.
19-22mm	11913.00
25mm	11914.00
32mm	11916.00

HOSE CAP	Item No.
	11917.00

CONNECTOR FOR HOSE	Item No.
M24x2mm x 3/4"	11910.00
M24x2mm x 1"	11911.00

SEAL FOR T/C QUICK CLAMP	Item No.
(Fits on both hose stub and the part with 3/4")	11920.00

SEALS

Dichtungen
Joint spies
Sellos

U-Seals Brown / Nutringe Braun / Joints spies marrons / Sellos de-U marron item 2	Item No.
Injektorking Vario EPS + Vario EPS POWER 16mm	15200.00
Injektorking Vario EPS POWER 18mm	15206.00
Injektorking Vario EPS + Vario EPS POWER 20mm	15202.00

U-Seals Gray / Nutringe Grau / Joints spies gris / Sellos de-U gris item 2

Injektorking Vario Turbo/Combi 16mm	15250.00
Injektorking Vario EPS 20mm	15252.00
Injektorking Vario POWER 18mm	15257.00

Item 32 Injektorking LS:

Injektorking LS 16mm	18200.00
Injektorking LS 12mm + injektorking Vario 12mm	18205.00
Injektorking LS 10mm	18210.00
Injektorking LS 8mm	18215.00

Piston seal / Kolbendichtung / Joint de piston / Junta de piston item 17:

Double-lip seal (blue or black) / Dobbelmanchette (Blau oder Schwarz) / Manchon (bleu ou noir) / Juntas de labio doble (azul o negro)	16700.00
---	----------

Bushing seal / Buchse Dichtung / Coussinets joints / Buje Sello Item 39 Injektorking LS:

16mm	18922.00
12mm	18928.00
10mm	18930.00
8mm	18920.00

AIR FITTINGS



INJEKTORKING VARIO EPS+LS	Item No.
Filling/Füllen/Remplissant/Relleno	
1/4" 6/4mm	19902.00
1/4" 8/6mm	19900.00
1/4" 10/8mm	19901.00
Closing/Schließen/Fermé/Cerrado	
1/4" 6/4mm	19902.00
1/4" 8/6mm	19900.00
1/4" 10/8mm	19901.00

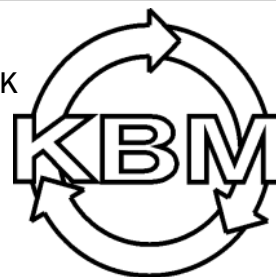
INJEKTORKING VARIO TURBO/COMBI + VARIO EPS POWER (+LS)	Item No.
Filling/Füllen/Remplissant/Relleno	
3/8" 8/6mm	19903.00
3/8" 10/8mm	19905.00
3/8" 12/10mm	19904.00
Closing/Schließen/Fermé/Cerrado	
1/4" 6/4mm	19902.00
1/4" 8/6mm	19900.00

CONVERTER	Item No.
3/8" => 1/4"	19932.00



KBM APS | VOELUNDSVEJ 13 | 3400 HILLEROED | DENMARK
Phone +45 4826 8090 / www.kbm.dk / kbm@kbm.dk

KBM ApS guarantees that the product meets the specification above. The keeping, handling and use of the products are beyond the control of KBM ApS, and therefore shall not invoke any responsibility of the company. This TD substitutes and deletes all previous versions.





Technical Data sheet CLAMP RINGS

TYPE COMBI 50MM WITH X-RING

Typ Combi 50mm with /avec/con X-ring

2 holes /Bohrungen/trous/orificios 76mm, 78mm & 80mm

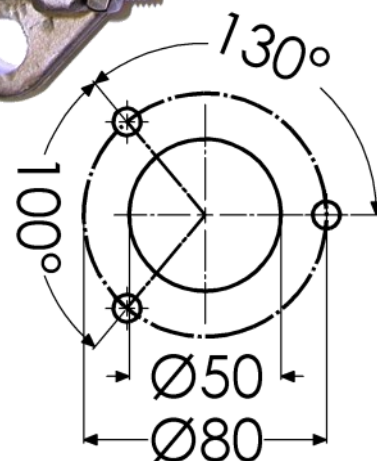
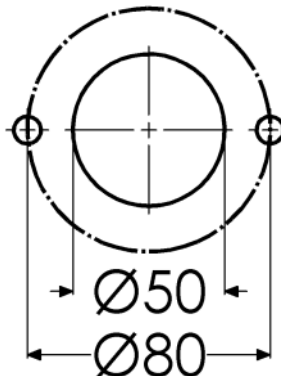
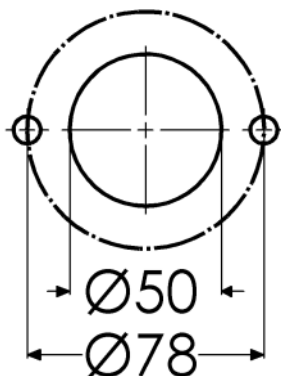
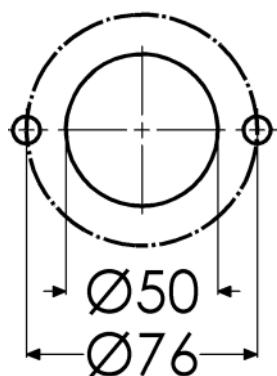
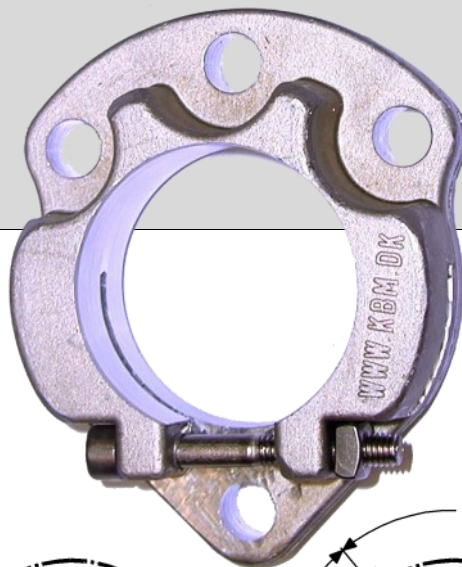
3 holes /Bohrungen/trous/orificios like/wie/comme/como Kurtz.

Type Combi 50mm
O-ring

Item No.

12604.00

12652.00



HOSE-STUBS / SCHLAUCHTÜLLEN / JOINTS DE TUYAU / TROZO DE MANGUERA

Hose-stub (pipe) 22mm

fits in Ø22mm

and M24x2mm

Item No. 16200.00



Reduction

1" => M24x2mm

Item No. 16245.00



KURTZ compatible 1" stub

Item No. 10950.00



Reduction

1" => 3/4"

Item No. 16240.00



Hose-stub

25mm/1" - Item No. 16220.00

30mm/1" - Item No. 16223.00

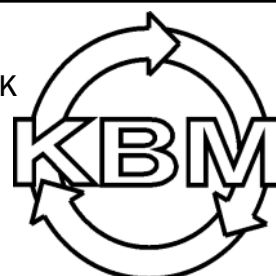
32mm/1" - Item No. 16225.00



KBM APS | VOELUNDSVEJ 13 | 3400 HILLEROED | DENMARK

Phone +45 4826 8090 / www.kbm.dk / kbm@kbm.dk

KBM ApS guarantees that the product meets the specification above. The keeping, handling and use of the products are beyond the control of KBM ApS, and therefore shall not invoke any responsibility of the company. This TD substitutes and deletes all previous versions.



Technical Data sheet

CLAMP RINGS

TYPE 42+40MM COMBI WITH X-RING

Typ 42mm Combi with /avec/con X-ring
2 holes /Bohrungen/trous/orificios 70mm

3 holes /Bohrungen/trous/orificios 70mm
like/wie/comme/como Kurtz.

	Item No.
Type 42mm Combi	12404.00
Type 40 mm Combi	12306.00

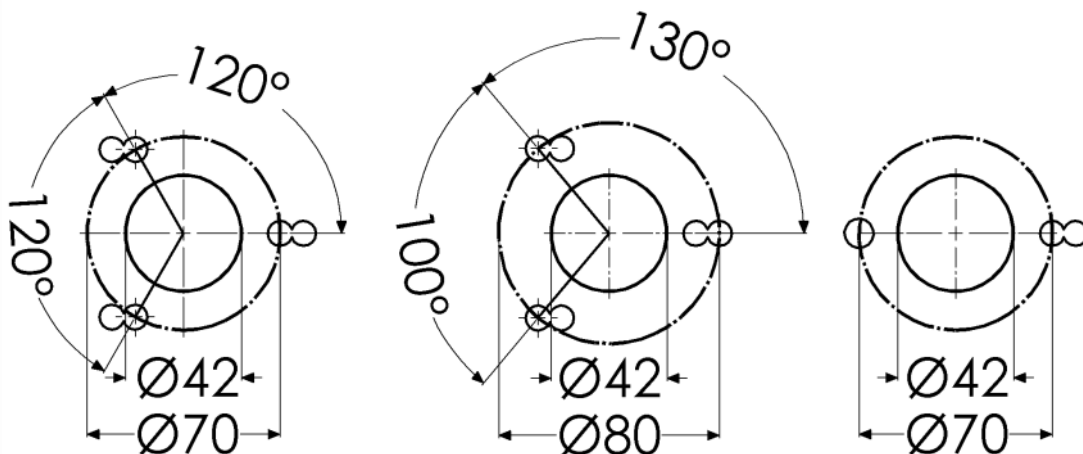
X-Ring for type 40+42 mm 12352.00



Converter

42mm => 40mm

Item No. 12308

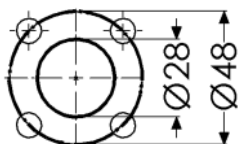


TYPE 28/4 = 28mm WITH 4 HOLES / BOHRUNGEN / TROUS / ORIFICIOS

Type 28/4 = 28mm with 4 holes /
mit 4 Bohrungen / avec 4 trou /
con 4 orificios

Item No. 12100.00
Can cover holes up to Ø32mm
Kann Löcher bis zu Ø32mm
abdecken
Peut couverture des trous
jusqu'à Ø32mm
Puede tapa agujeros de
hasta 32mm

Complete set 28mm

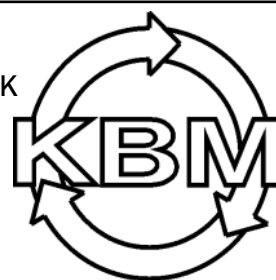


28x4mm
Item no. 12104.00
32x3mm
Item no. 12102.00



KBM APS | VOELUNDSVEJ 13 | 3400 HILLEROED | DENMARK
Phone +45 4826 8090 / www.kbm.dk / kbm@kbm.dk

KBM ApS guarantees that the product meets the specification above. The keeping, handling and use of the products are beyond the control of KBM ApS, and therefore shall not invoke any responsibility of the company. This TD substitutes and deletes all previous versions.





Technical Data sheet

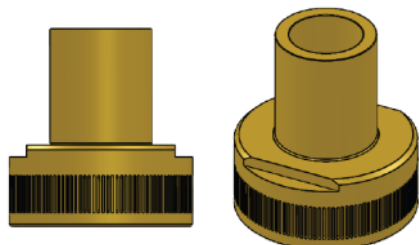
TIPS FOR VARIO + LS

TIPS / MUNDSTÜCKE / EMBOUTS / CONTERAS

INJEKTORKING VARIO - REGULAR

Type A

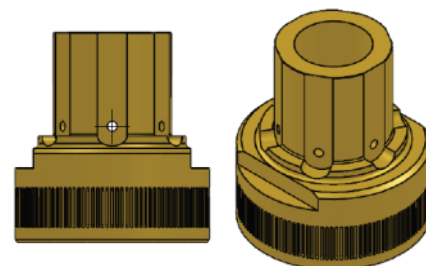
22L25/12,16,18,20mm
20L21/12,16,18,20mm
22L20/12,16,18,20mm
24L21/12,16,18,20mm
26L25/12,16,18,20mm
32L25/12,16,18,20mm
36L25/12,16,18,20mm
Ekstra long tip
38L40/12,16,18,20mm
32L50/12,16,18,20mm
32L75/12,16,18,20mm



INJEKTORKING VARIO - CHANNELS + HOLES

Type B

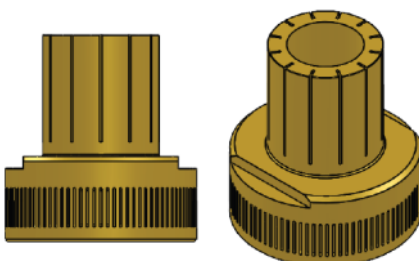
22L25/12,16,18,20mm
20L21/12,16,18,20mm
22L20/12,16,18,20mm
24L21/12,16,18,20mm
26L25/12,16,18,20mm
32L25/12,16,18,20mm
36L25/12,16,18,20mm
Ekstra long tip
38L40/12,16,18,20mm
32L50/12,16,18,20mm
32L75/12,16,18,20mm



INJEKTORKING VARIO - SLITS

Type C

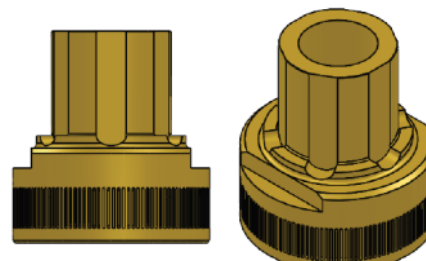
22L25/12,16,18,20mm
20L21/12,16,18,20mm
22L20/12,16,18,20mm
24L21/12,16,18,20mm
26L25/12,16,18,20mm
32L25/12,16,18,20mm
36L25/12,16,18,20mm
Ekstra long tip
38L40/12,16,18,20mm
32L50/12,16,18,20mm
32L75/12,16,18,20mm



INJEKTORKING VARIO - CHANNELS

Type D

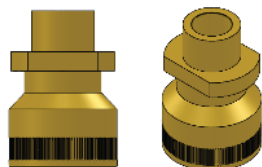
22L25/12,16,18,20mm
20L21/12,16,18,20mm
22L20/12,16,18,20mm
24L21/12,16,18,20mm
26L25/12,16,18,20mm
32L25/12,16,18,20mm
36L25/12,16,18,20mm
Ekstra long tip
38L40/12,16,18,20mm
32L50/12,16,18,20mm
32L75/12,16,18,20mm



INJEKTORKING VARIO - BAJONET

Type E

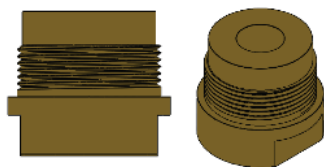
BAJONET 23L15/16mm



INJEKTORKING VARIO - M42X2,5 THREAD

Type F

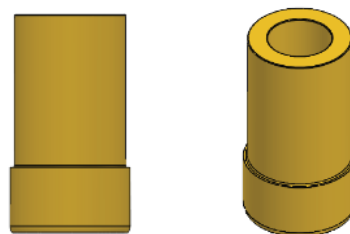
M42X2,5L15-39L10/18mm



INJEKTORKING LS - REGULAR

Type G

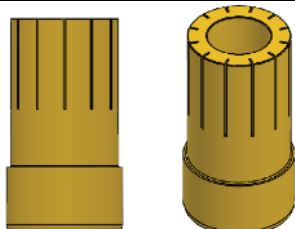
26L36/16mm
26L25/12mm
26L25/10mm
26L35/08mm



INJEKTORKING LS - SLITS

Type H

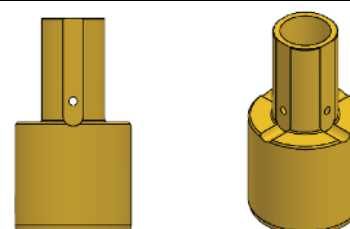
26L36/16mm
26L25/12mm
26L25/10mm
26L35/08mm



INJEKTORKING LS - CHANNELS & HOLES

Type I

26L36/16mm
26L25/12mm
26L25/10mm
26L35/08mm



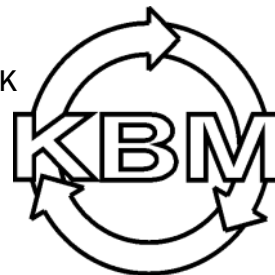
- KBM offers a wide range of custom made tips beyond the above stated standards. Contact us at kbm@kbm.dk for more information.



KBM APS | VOELUNDSVEJ 13 | 3400 HILLEROED | DENMARK

Phone +45 4826 8090 / www.kbm.dk / kbm@kbm.dk

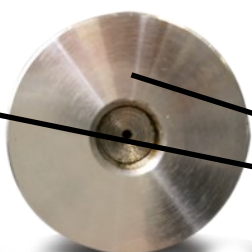
KBM ApS guarantees that the product meets the specification above. The keeping, handling and use of the products are beyond the control of KBM ApS, and therefore shall not invoke any responsibility of the company. This TD substitutes and deletes all previous versions.



Technical Data sheet

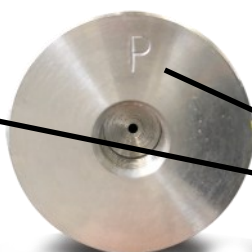
INJEKTORKING VARIO

HOW TO DISTINGUISH THE DIFFERENT INJEKTORKING MODELS



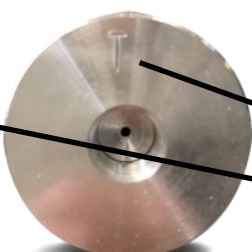
VARIO INJEKTORKING EPS (STANDARD)

BLANK cylinder/ Leerer Zylinder/ Cylindre non marqué/ Cilindro sin marcar
SILVER label/ Silbernes Etikett/ Étiquette argentée/ Etiqueta plateada



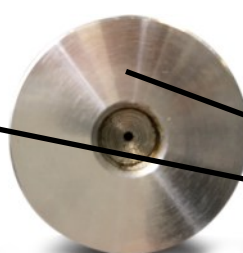
VARIO INJEKTORKING POWER

Cylinder marked "P"/Zylinder "P"/ Cylindre marqué "P"/ Cilindro marcado "P"
SILVER label/ Silbernes Etikett/ Etiqueta argentée/ Etiqueta Plateada



VARIO INJEKTORKING TURBO/COMBI

Cylinder marked "T"/Zylinder "T"/ Cylindre marqué "T"/ Cilindro marcado "T"
GOLD label / Goldenes Etikett/ Etiqueta dorée / Etiqueta dorada



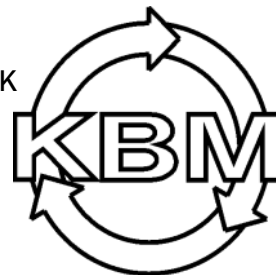
INJEKTORKING LS (LONG STROKE)

BLANK cylinder/ Leerer Zylinder/ Cylindre non marqué/ Cilindro sin marcar
NO label/ KEIN Etikett/ Sans étiquette / Sin etiqueta



KBM APS | VOELUNDSVEJ 13 | 3400 HILLEROED | DENMARK
Phone +45 4826 8090 / www.kbm.dk / kbm@kbm.dk

KBM ApS guarantees that the product meets the specification above. The keeping, handling and use of the products are beyond the control of KBM ApS, and therefore shall not invoke any responsibility of the company. This TD substitutes and deletes all previous versions.





Technical Data sheet

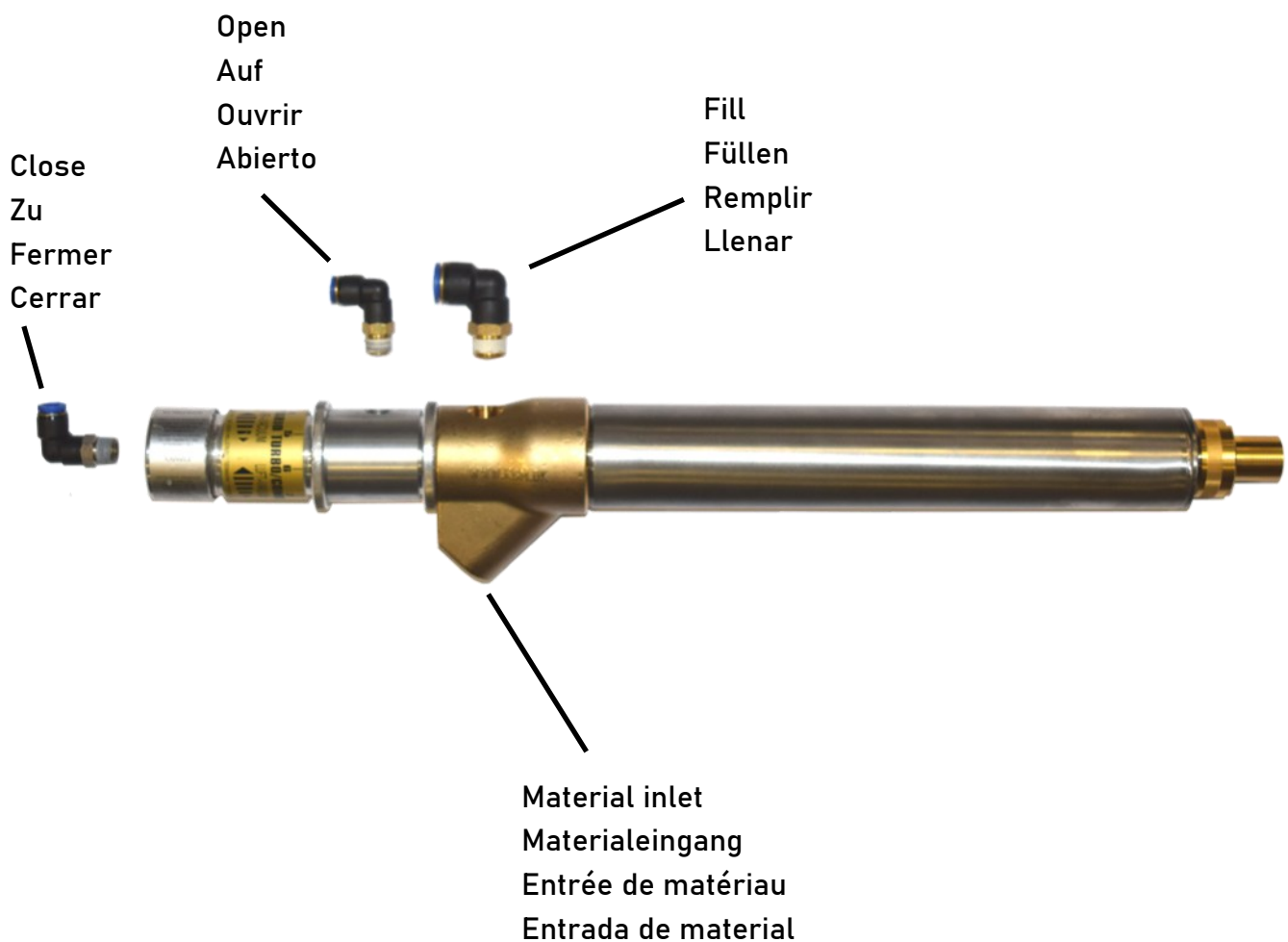
3 AIR CONNECTORS

All Vario types now available with 3 connectors

Alle Vario Typen sind jetzt mit 3 Anschlüssen zu Verfügung

Tous les types Vario sont maintenant disponibles avec 3 connecteurs

Todos los tipos Vario están ahora disponibles con 3 conectores



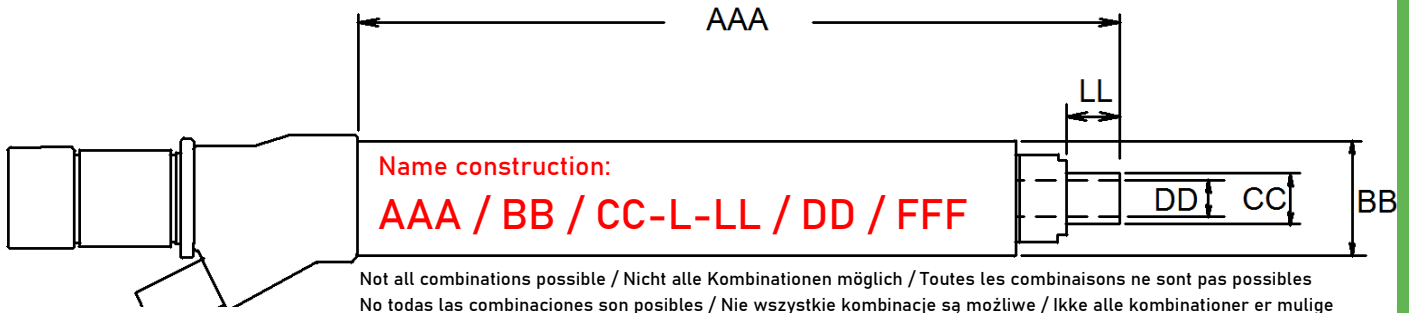
KBM APS | VOELUNDSVEJ 13 | 3400 HILLEROED | DENMARK

Phone +45 4826 8090 / www.kbm.dk / kbm@kbm.dk

KBM ApS guarantees that the product meets the specification above. The keeping, handling and use of the products are beyond the control of KBM ApS, and therefore shall not invoke any responsibility of the company. This TD substitutes and deletes all previous versions.



INJEKTORKING ORDER FORM



Material

EPS(PSE).....: _____
 EPP(PPE).....: _____
 EPE (PEE).....: _____
 ARCEL.....: _____
 PIOCELAN.....: _____
 Graphite EPS.....: _____
 Bio.....: _____
 Other: _____

Density: _____ Size: _____

AAA

Standard:
(mm)

200.....: _____	230.....: _____
300.....: _____	330.....: _____
400.....: _____	430.....: _____
500.....: _____	530.....: _____
600.....: _____	630.....: _____
700.....: _____	730.....: _____

BB

Standard: 50.....: _____
 (mm) 42.....: _____
 M42x1,5.....: _____
 40.....: _____
 28.....: _____
 M28x1.....: _____
 Other: _____

DD (plunger/Pinole/plongeur/émbolo)

Standard: 10.....: _____ (Vario)
 : 12.....: _____ (Vario)
 (mm) 16.....: _____ (Vario)
 18.....: _____ (Vario)
 20.....: _____ (Vario)
 08.....: _____ (LS)
 10.....: _____ (LS)
 12.....: _____ (LS)
 16.....: _____ (LS)
 20.....: _____ (LS)
 24.....: _____ (LS)

Other: _____

Vario=adjustable vacuum / filling
 LS=fixed vacuum / filling

Tips (Type Vario): CC-L-LL

Standard: 22-L-25: _____
 (mm) 20-L-21: _____
 22-L-20: _____
 24-L-21: _____
 26-L-25: _____
 32-L-25: _____
 36-L-25: _____
 38-L-40: _____
 32-L-50: _____
 32-L-75: _____

Other CC: _____ LL: _____

Tips (Type LS): CC-L-LL/DD

Standard: 26-L-36/16.....: _____
 (mm) 26-L-25/12.....: _____
 26-L-25/10.....: _____
 26-L-35/08.....: _____

Other CC: _____ LL: _____

Airfittings if needed (mark with X):

Air hose outside diameter (mm)	6	8	10	12	15
Opening air					
Filling air					
Closing air					
Ejection air					

Ejector/Auswerfer/ejecteur/eyector:

Standard built-in ejector /FFF:

Ejector (Vario) 100mm.....: _____
 Ejector (LS) 110mm.....: _____

No ejector.....: _____

Other ejector.....: _____

Material hose connector:
quick dis-connector/Schnellkupplung
accouplement rapide/abrazadera rápida

Type Kombi.....: _____
 Type T/C.....: _____
 Type Multi.....: _____
 Hose-stub.....: _____ (no quick)

See all types here:
<http://www.kbm.dk/products/kill-injectors>

Special requirements:

Separate open air.....: _____
 Fixed plunger (contour-inj.) : _____

Material hose/Schlauch/tuyau/tubo:

Standard: 20 (3/4").....: _____
 (mm) 22 (7/8").....: _____
 25 (1").....: _____
 30 (1 3/16").. : _____
 32 (1 1/4").....: _____

Other: _____

Clamp ring.....: _____ (yes/no)
 (Collar/Haltering/Bague fix./Anillo abrazadera)

Type.....: _____

Firma.....: _____

Person.....: _____

E-mail/phone: _____

Mail to: kbm@kbm.dk

Number/pcs : _____

Date: _____

ORDER FORM



Since 1971

17-01-2025 | S11E|EN

INJEKTORKING

PRODUCT RANGE & TECHNICAL DATA

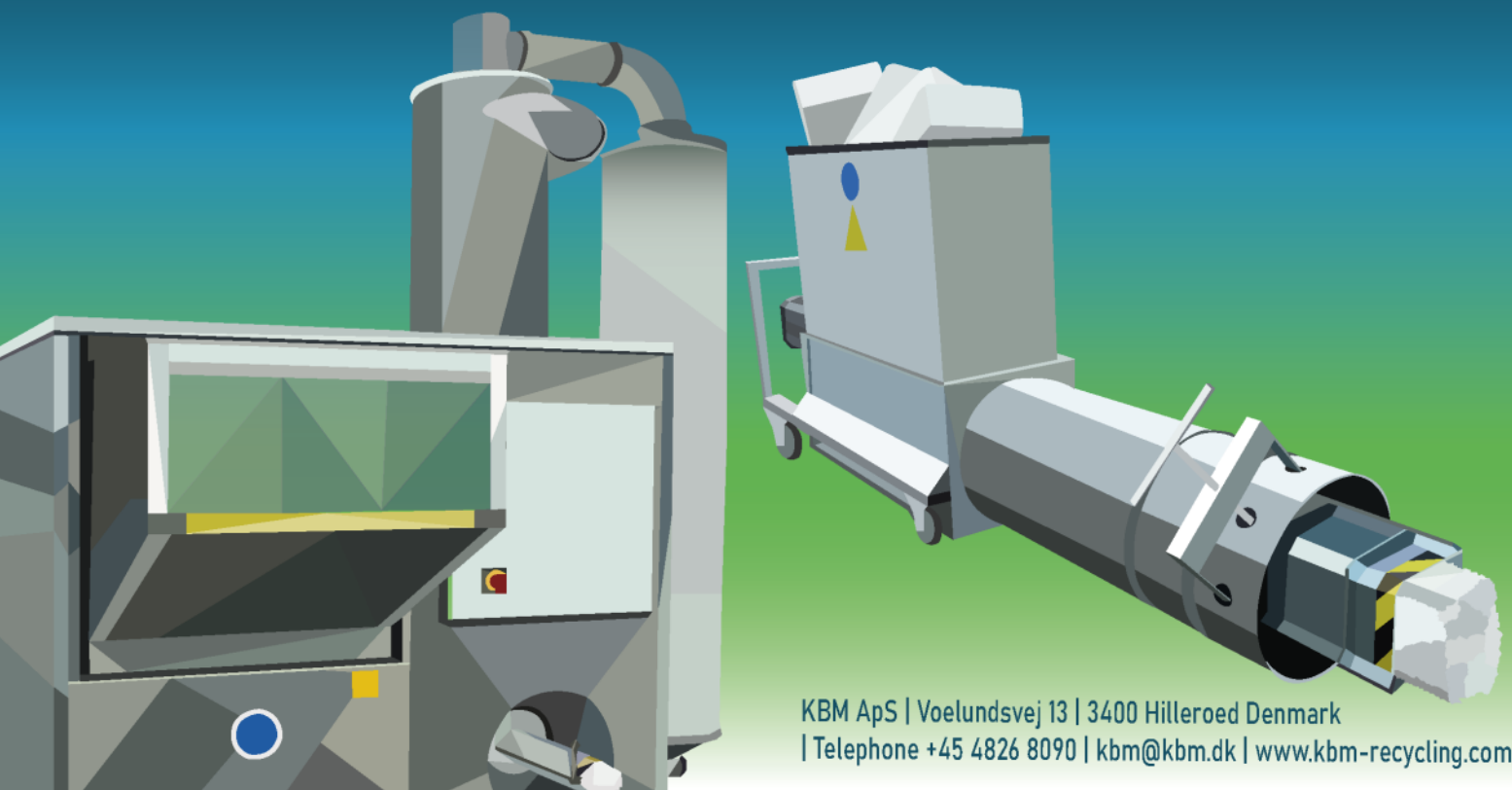
KBM ApS was founded in 1971 by the late Mr. Kjeld Bentzen and is today run by his son Mr. Michael Bentzen. Since the beginning, the company has been supplying the EPS industry with high quality machinery.

A few years later in 1975, the Injektorking Vario Injectors for EPS were developed, and in 1978 KBM developed the first real recycling plant for EPS; later the same systems were developed to be used for EPP and EPE.

Over the years, KBM has designed recycling systems for companies of all sizes in the moulding industry. Combined crushers/compactors to handle post-consumer products of EPS, and mixing/metering systems have also been added to the line of products.

Contact us for arranging a visit at our demo facility. You can also contact us for a trial with INJEKTORKING injectors for a full mould and experience the true benefits in real time operation at your own plant.

Learn about our our MICRO, MINI, MAXI & JUMBO
RECYLING systems and NANO, MICRO, MINI & MAXI Styropactors
for EPS compacting on kbm-recycling.com



KBM ApS | Voelundsvej 13 | 3400 Hilleroed Denmark
| Telephone +45 4826 8090 | kbm@kbm.dk | www.kbm-recycling.com