



Your project deserves it.



WIWA VULKAN GX



WWW.WIWA.COM

Established quality refined



The **WIWA VULKAN GX** extrusion pumps for conveying, dosing and applying adhesives, insulating materials and sealing materials now also rely on the new WIWA GX air motor. This impresses with a full metal housing, optimized air distribution during operation to minimize icing during continuous operation and reduced noise.

The range of extrusion pumps includes a total of 19 pumps in four performance classes with different outputs and pressure ratios, making it probably one of the most comprehensive series in the world. It is supplemented by an extensive selection of accessories such as base mountings, single and twin post ram presses in various sizes, following plates and following covers in all sizes and designs, as well as heating elements and other mounting kits. This modular system makes it possible to put together a suitable unit for almost any application.

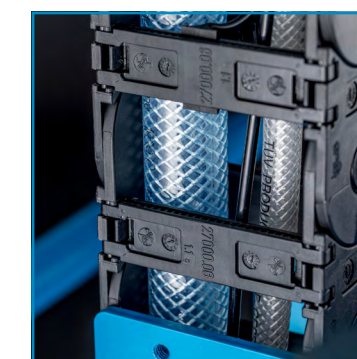
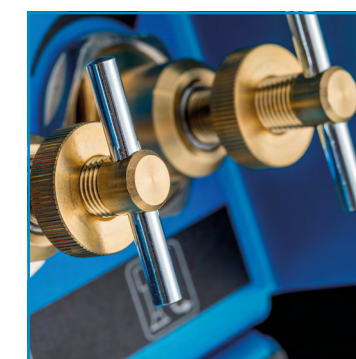
Our configurator, which we have shown for you in simplified form on pages 42/43, will help you to do this. In addition, we can implement a wide variety of special solutions to meet your requirements.

Areas of application

- Supply of single workstations and robots
- Automotive industry
- Machine and vehicle construction
- Rail vehicle construction
- Aircraft industry
- Marine and offshore industry
- Wind energy
- Wood and furniture industry
- Printing plants
- Window and door construction
- Production lines in the chemical industry
- Adhesive and polyurethane processing
- Lubrication technology (oil and grease conveying systems)
- Underbody protection applications
- Spraying and coating technology
- Paint and varnish production and processing
- Conveying of raw material for the production of adhesives
- Cartridge filling systems
- Production and processing of silicone products

Materials

- Adhesives and glue
- PVC and other sealing materials
- Greases and lubricants
- Printing inks
- Bitumen
- Underbody protection
- Pasty coating materials and other medium and high viscosity products
- Mastics
- Silicone
- Butyls
- Urethanes
- Epoxies
- Acrylics



Advantages

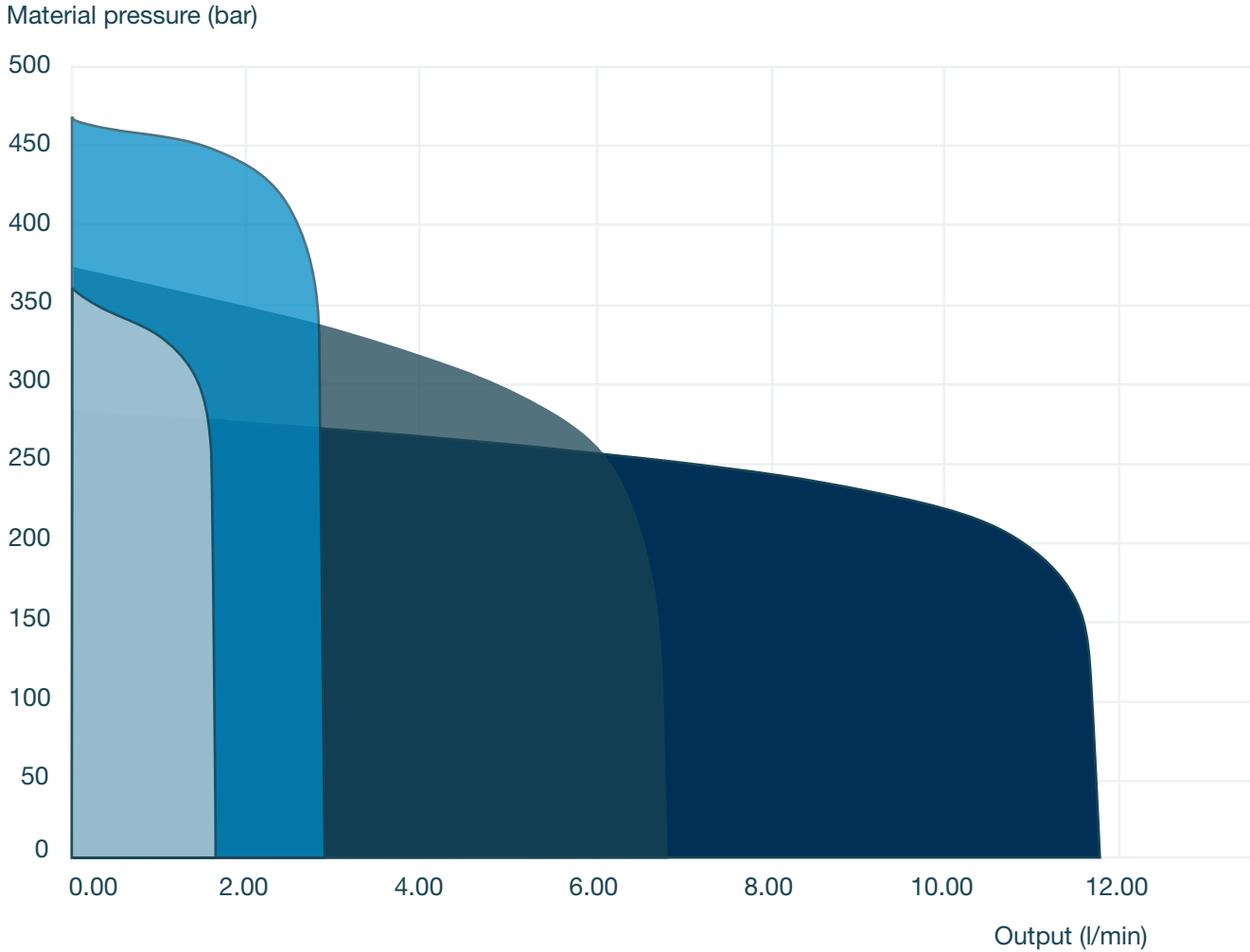
- Steady material flow
- Precise results due to low pulsation
- Top performance even in the toughest areas of application and in continuous operation







i RS = Stainless steel, rust and acid resistant
N = Normal steel, galvanized
The part numbers describe the extrusion pumps only. Complete systems are configured through our sales team.

Technical data example systems WIWA VULKAN GX					
Model	Pressure ratio	Output per 60 cycles	Max. air inlet pressure	Max. operating pressure	Part No.
79.24	24:1	4.74 l/min	8 bar	192 bar	0668165 (N)
79.24					0668174 (RS)
79.45	45:1	4.74 l/min	8 bar	360 bar	0666444 (RS)
79.45					0668166 (N)
134.14	14:1	8.04 l/min	8 bar	112 bar	0668167 (N)
134.14					0668175 (RS)
134.26	26:1	8.04 l/min	8 bar	208 bar	0668176 (RS)
134.26					0668168 (N)
134.54	54:1	8.04 l/min	8 bar	432 bar	0668177 (RS)
134.54					0668173 (N)
134.72	72:1	8.04 l/min	6,5 bar	468 bar	0668169 (N)
134.72					0668178 (RS)
330.29	29:1	19.8 l/min	8 bar	232 bar	0668170 (N)
330.62	62:1	19.8 l/min	6 bar	372 bar	0667080 (N)
580.23	23:1	34.8 l/min	8 bar	184 bar	0668172 (N)
580.35	35:1	34.8 l/min	8 bar	280 bar	0665422 (N)

You know your material and the necessary output.
We have the best pump for the job.



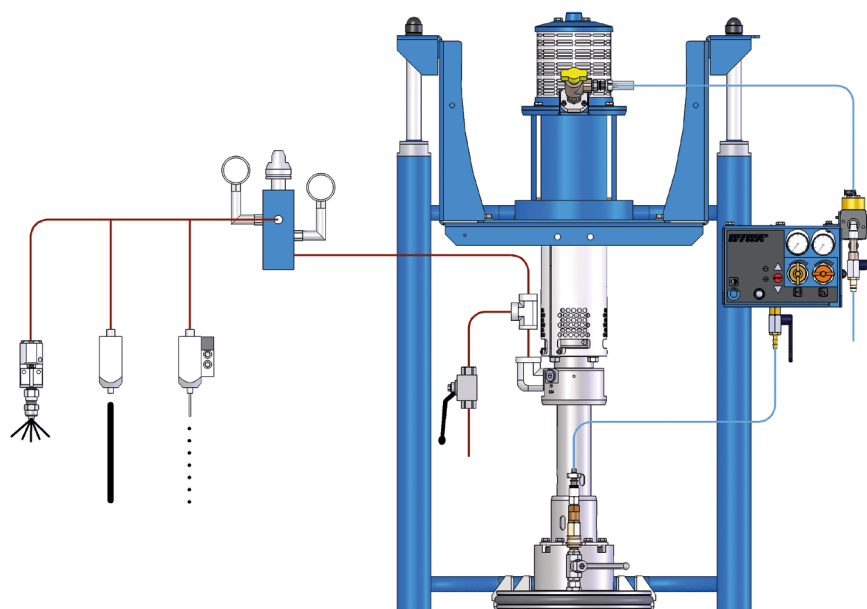
-  Model 79.45
-  Model 134.72
-  Model 330.63
-  Model 580.35

i The graphic above is for guidance only. The actual output could differ.

System solution for 20 liter containers

Advantages

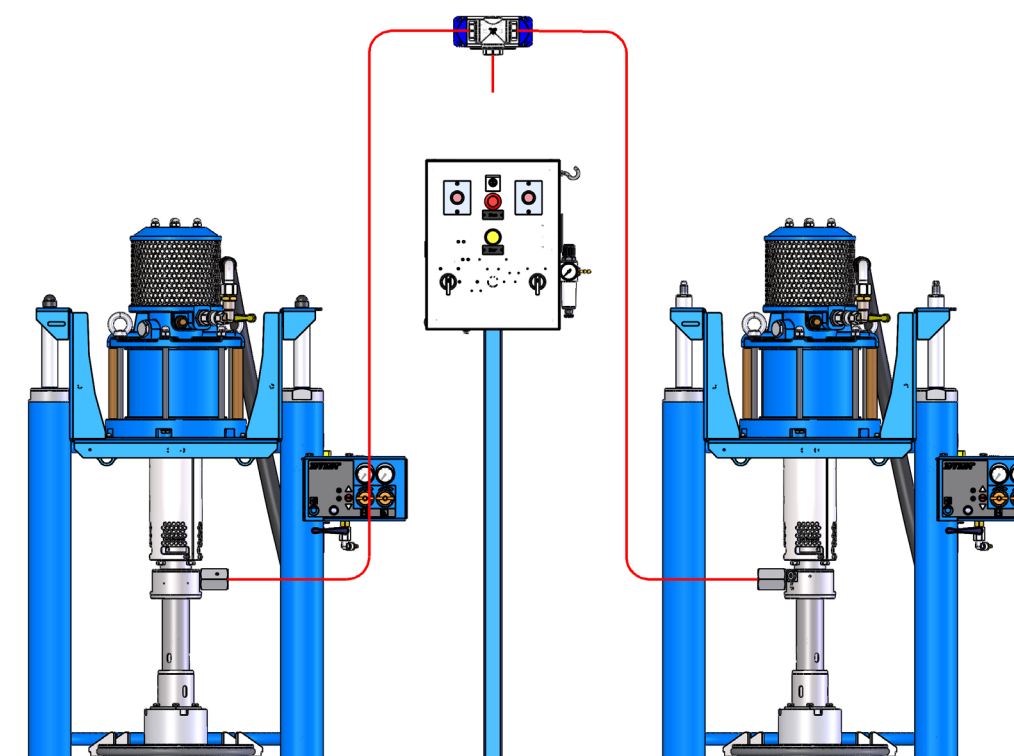
- Easy to maintain
- Soft start of the pump with an air inlet pressure of less than 1 bar
- Longer service life of the pump because of the spring loaded upper packing



Suitable for	Components	Technical data
<ul style="list-style-type: none"> • One to several delivery points 	<ul style="list-style-type: none"> • VULKAN GX • Material hose • Material pressure regulator • Twin post ram • Following plate • Automatic gun 	<ul style="list-style-type: none"> • Max. output (per 60 cycles): 4.7 - 34.8 l/min • Pressure ratio: 14:1 - 72:1

▶ Automatic operation ◀

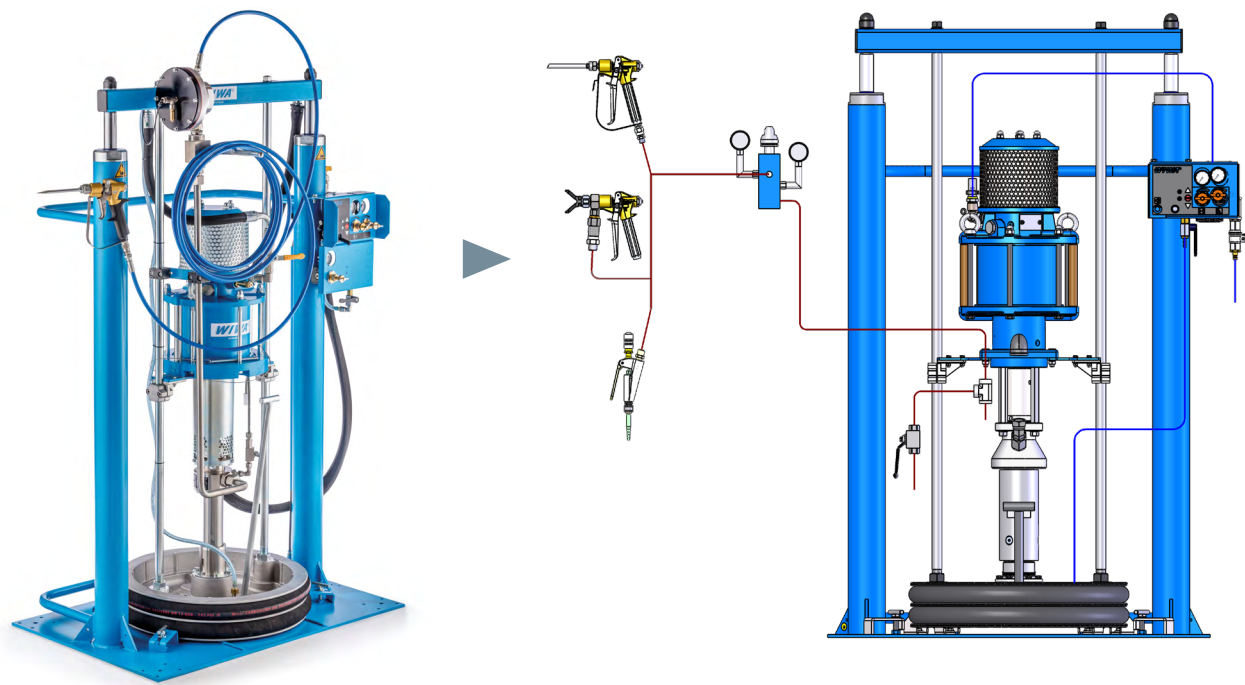
System solution for 20 to 200 liter containers



Suitable for	Components	Technical data
<ul style="list-style-type: none"> • Continuous conveying of higher viscosity materials 	<ul style="list-style-type: none"> • VULKAN 79.45 • Twin post ram • Following plate • Control box • Level monitoring 	<ul style="list-style-type: none"> • Max. output (per 60 cycles): 4.74 l/min • Pressure ratio: 45:1

▶ Automatic operation ◀

System solution for 200 liter containers



Suitable for	Components	Technical data
<ul style="list-style-type: none"> • One to several delivery points 	<ul style="list-style-type: none"> • VULKAN • Material hose • Maintenance unit • Twin post ram • Following plate • Airless gun or extrusion gun 	<ul style="list-style-type: none"> • Max. output (per 60 cycles): 4.7 - 34.8 l/min • Pressure ratio: 14:1 - 72:1

▶ Manual operation ◀



The **WIWA VULKAN** in manual use at a vehicle manufacturer in Poland - scan the QR code and learn more!

Automated material supply and application. All from a single source.

WIWA delivered a 200 liter version **VULKAN** series pump (model 134.54) as a feed pump as well as four pneumatically controlled **WIWA 250 needle outlet valves** to a system integrator manufacturing a machine for the automatic gluing of wooden door strips.



Container

- Small container
- 200 liter drum



Rams

- 0.3 t + 0.75 t for small containers
- 0.75 t + 3 t for 200 liter drum



Following lid / plate

- Heated
- Teflon-coated



Extrusion pumps

• 79.24 (N/R)	• 330.29 (N)
• 79.54 (N/R)	• 330.40 (N)
• 134.16 (N/R)	• 330.62 (N)
• 134.26 (N/R)	• 580.23 (N)
• 134.54 (N/R)	• 580.35 (N)
• 134.72 (N/R)	

(also available heated)



Pressure relief 1

Material pressure regulator 2

Rising pipe 3

Energy chain 4

- Hoses also available heated

i The energy chain guarantees the smallest permissible bending radius of the hoses and protects them from damage.

Guns 6

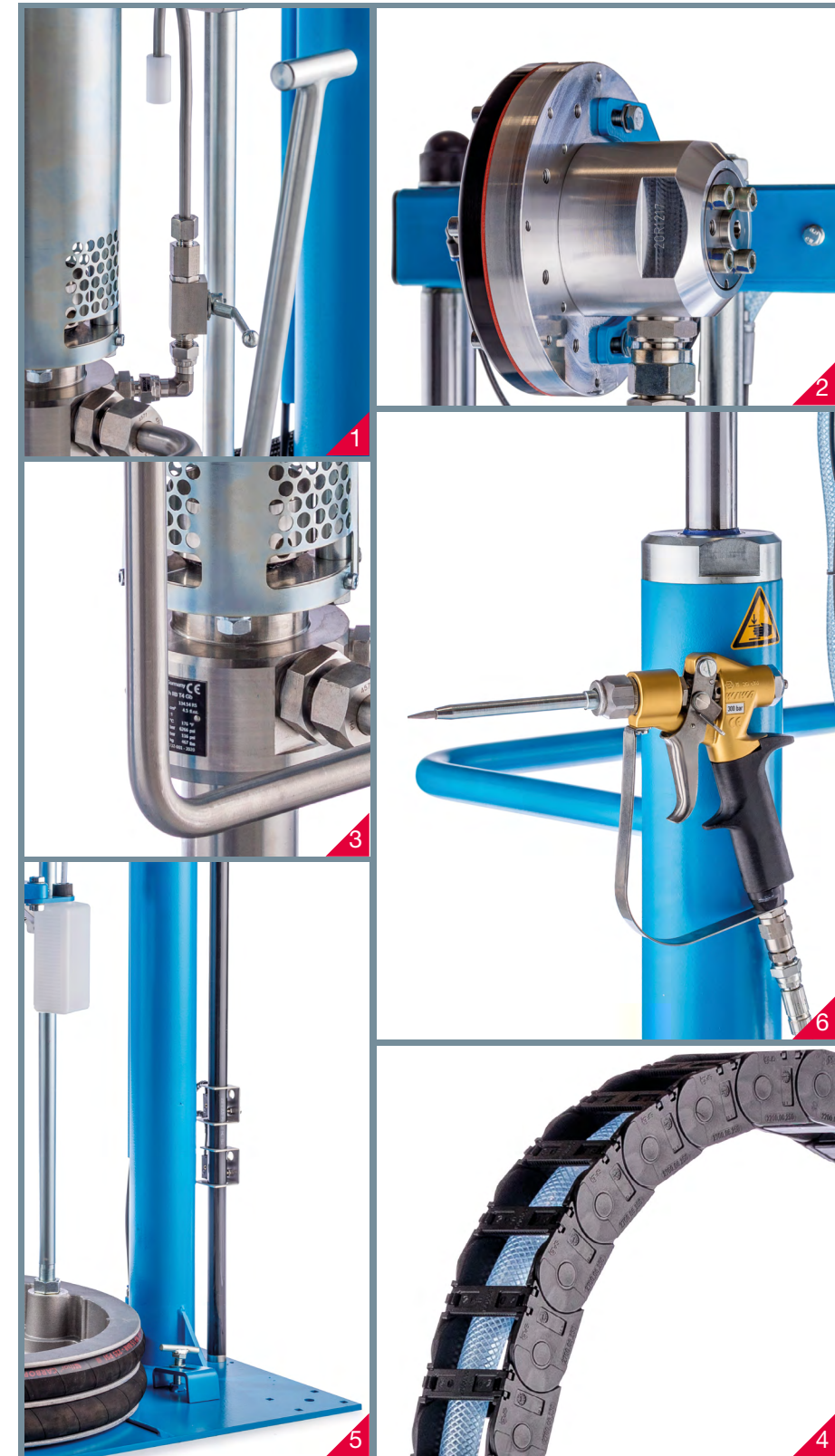
- Extrusion guns
- AirCombi guns
- Airless guns

Control

- 1-hand-control
- 2-hands-control

Monitoring 5

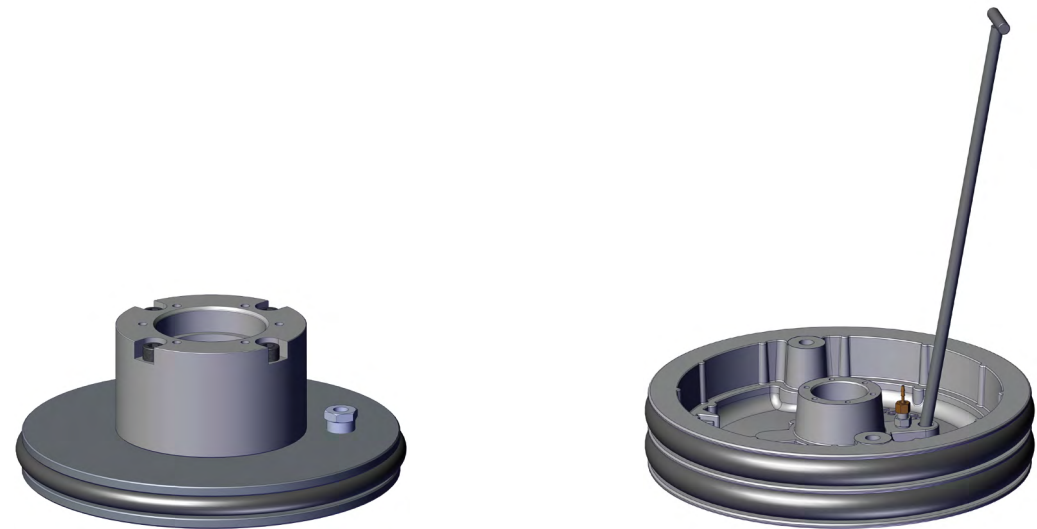
- Drum low level indicator
- Drum low level indicator with shutdown
- Drum low level indicator without shutdown



i Our systems are also available on wheels. If you have any questions about your individual configuration, please do not hesitate to contact us.

Use the full potential of this power series with the matching following plates ...

Following plates have an o-ring seal and fit onto cylindrical containers. They are therefore only suitable for containers with a **specific** inner diameter.



Following plate optimized for minimal residual material for small containers

Standard following plate for large containers

Container size	Inner Ø	Heating capacity (optional)
Small containers	280 - 380 mm	1000 - 2000 W
200 liter drum	571.5 mm	2100 W

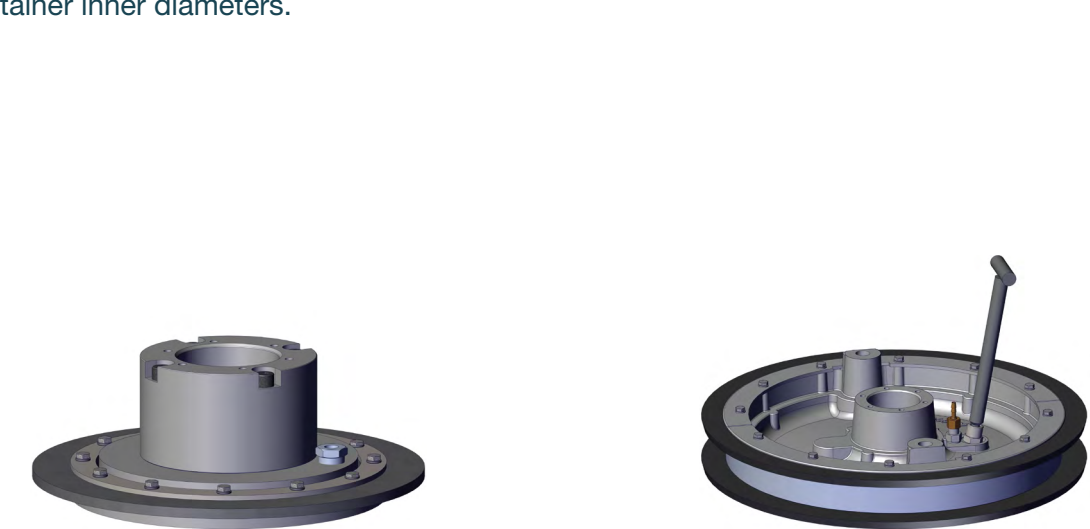
i WIWA's electrically-heated following plates enable the effective pumping of materials with very high viscosities. An overview of our heating options can be found on the following pages.

Advantages

- Constant product flow by avoiding cavitation
- Electrically heated or PTFE-coated on request
- Protection of the contents of the container from moisture, dust or curing through contact with air

... and following lids

Following lids are characterized by a lip seal. They are designed for conical containers and accordingly also for **different** container inner diameters.



Following lid optimized for minimal residual material for small containers

Following lid with double sealing lip for large containers

Container size	Inner Ø	Heating capacity (optional)
Small containers	280 - 380 mm	1000 - 2000 W
200 liter drum	571.5 mm	2100 W

i PTFE-coated equipment is easier to clean because less material remains on the extremely smooth non-stick surface. It is also extremely resistant to abrasive, alcohol-containing or oily substances.

i Of course, we can also produce other sizes on request.

Material pressure regulators for sealants, adhesives and lubricants

Generally speaking, material pressure regulators ensure that a set pressure is not exceeded on the outlet side of a system or that the required working pressure is reached, even if there are different pressures on the inlet side. They also compensate for pulsation that can occur when material is pumped by piston pumps. This ensures an even flow of material and the application quality remains stable.

When processing self-lubricating media such as grease, oil and 1- and 2-component silicones, material pressure regulators with **pistons** are preferred. The spring chamber is sealed by a mechanical seal.

Material pressure regulators with **membranes** are used in particular for reactive, moisture-sensitive and abrasive media such as epoxy resins, polyurethanes and many other materials. The spring chamber is sealed by a membrane.



Regulators for hand-operated systems



Regulators for automated systems

Manual material pressure regulator

- Material inlet pressure: 100 bar (Part No.: 0651610), 250 bar (Part No.: 0651609), 400 bar (Part No.: 0643777)
- Control range: 20 - 100 bar / 20 - 250 bar / 20 - 400bar
- Material inlet: G 3/8"
- Piston version
- Suitable for low to medium viscosity materials (e.g. grease, silicone)

Manual material pressure regulator

- Part No.: 0669404
- Material inlet pressure: max. 400 bar
- Control range: 10 - 320 bar
- Material inlet: 3/4" BSPP
- Piston version
- Suitable for medium to high viscosity materials (e.g. mastic)

Pneumatic material pressure regulator

- Part No.: 0669401
- Material inlet pressure: max. 400 bar
- Material outlet pressure: 25 - 275 bar
- Material inlet: 3/4" BSPP
- Ball seat version
- Suitable for medium to high viscosity as well as moisture-sensitive materials

Manual material pressure regulator

- Material inlet pressure: max. 400 bar
- Control range: 4 - 50 bar / 15 - 150 bar
- Material inlet: 3/8" BSPP
- Membrane version (Part No.: 0669348), piston version (Part No.: 0669701)
- Suitable for low to high viscosity and abrasive materials (e.g. epoxy / PU)



All part numbers cover the material pressure regulators without attachment kits (hoses, double nipples, etc.).

Full control over all important parameters

For a successful project, it is essential to know parameters such as pressure, flow rate and temperature of the processed material at all times to be able to intervene if necessary. We provide a broad range of products for this purpose.



- Direct analog or digital display of the measured values
- Electrically measured value acquisition and control via control box



Control box

- With display and control
- Readout of up to three measured values possible

Control



Pressure gauge D63

- Measuring ranges: 0 - 50/100/400/600 bar
- Material inlet: G 1/2"



Pressure sensor

- Measuring range: 0 - 600 bar
- Material inlet: G 1/4"

Pressure



Stroke counter pneumatic

- Measuring range: 0 - 999.999 strokes



Stroke sensor inductive

- Available for all pumps and air motors



Flow meter

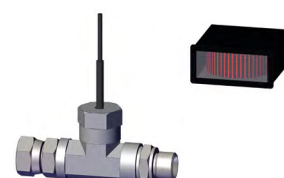
- Measuring range: 0,16 - 16 l/min
- Material inlet: G 3/8" / G 1/2"

Flow rate



Thermometer with pointer

- Measuring range: -40 - 400 °C



Thermometer analog

- Measuring range: 0 - 120 °C



Thermometer digital

- Measuring range: -50 - 150 °C



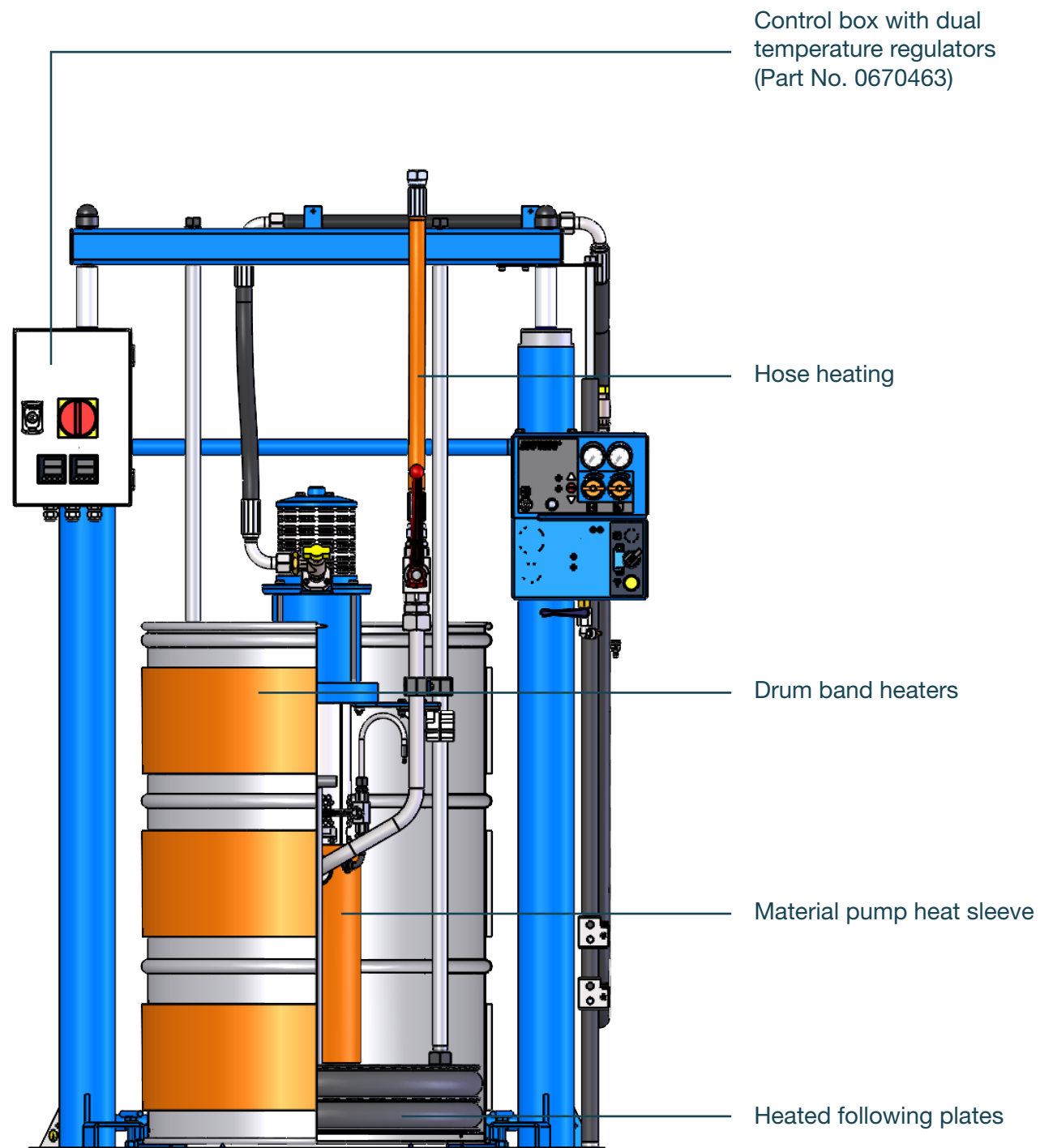
Temperature sensor PT100

- Measuring range: -50 - 150 °C

Temperature

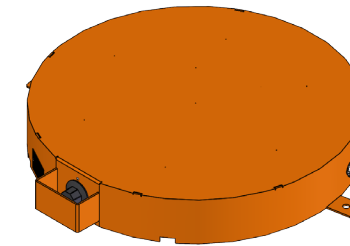
Our heating options from drum floor heaters to the outbound fluid hose

The control box comes standard with dual temperature regulators for the following plate and outbound fluid hose. If you require additional drum band heaters and/or a heated material pump, this can be arranged for as well. Be sure to mention this to us when discussing your project.



Drum floor heaters

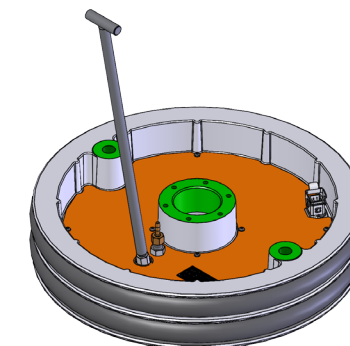
In order to preheat a new drum in advance - so that, for example, the ongoing work process does not have to be interrupted - our separate drum floor heaters are ideally suited.



Container size	Inner Ø	Voltage	Temperature	ATEX	Part No.
Small container	267/312 mm	230 V	30 - 85 °C	No	0663860
		400 V			0666309
216,5 liter drum	546 mm	230 V	0 - 110 °C	Yes	0639158
	550 - 650 mm		30 - 110 °C	No	0664500
		400 V			0665630
		480 V	max. 80 °C		0666597

Heated following plates

For even better material flow, we offer heated following plates. They enable highly viscous products to be pumped effortlessly.



Container size	Inner Ø	Voltage	Power	Temperature	Part No.
200 liter drum	571,5 mm	230 V	2100 W	max. 85 °C	0670095
					0670097
Small container	280 mm		1000 W		0670604

Drum band heaters and drum belt heaters

While drum band heaters are sized to fit a specific drum diameter, drum belt heaters can be adjusted to fit different drum sizes. Depending on the desired temperature, one or more heaters are required. We can supply other models on request.

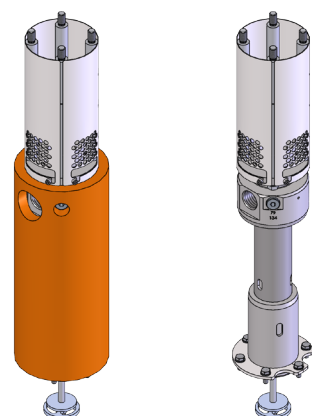
Container size	Length	Width	Voltage	Power	Temperature	Part No.
Small container	800 mm	125 mm	230 V	300 W	0 - 120 °C	0656881
	1020 mm	400 mm		200 W	0 - 90 °C	0666963
	940 mm	125 mm		500 W	0 - 120 °C	0656882
200 liter drum	1665 mm	180 mm		1500 W	0 - 120 °C	0656883
	1950 mm	800 mm		1200 W	0 - 90 °C	0667176

i A thermostat, drum retention device, cable (without plug) and ground wire are included.

Material pump heat sleeves

Our thermally insulated heating sleeves made of fiberglass can be easily and flexibly mounted and removed with the aid of a Velcro fastener. The heat sleeve ensures uniform heating of the material flowing through the pump.

Heat sleeves for all other WIWA pumps are available on request.



Pump	Ø	Length	Voltage	Power	Temperature	Part No.
LP pump 600	94 mm	325 mm	230 V	100 W	max. 60 °C	0664387

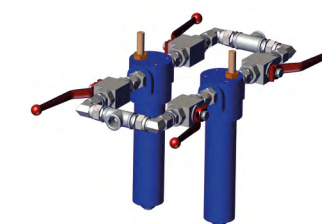
Heating hoses

Heating the outbound hoses is another way to ensure a constant material temperature and thus maintain the optimum working temperature.

Type	Max. operating pressure	Material inlet	Voltage	Power	Temperature
DN 12	200/450 bar	G 1/2"	230 V	160 W/m	max. 100 °C
DN 16	175/400 bar	G 3/4"		200 W/m	
DN 20	150/300 bar	G 1"		260 W/m	

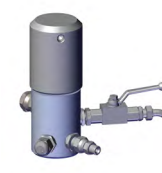
High pressure filters for a comprehensive protection of your unit

Put simply, filters have the task of preventing contamination of materials. In this way, they not only protect your system from possible damage, but also increase the efficiency of your production process by ensuring an uninterrupted flow. This effect is even stronger with double filter fittings, because even if one filter is clogged, the material can still be passed through the other one.



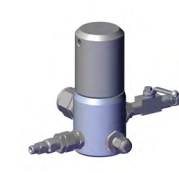
Double filter fitting

- Material inlet: G 1"/1/2"
- Max. material pressure: 250/400 bar



HP filter type 11 R

- Max. material pressure: 450 bar
- Material inlet: M22 x 1,5
- Part No.: 0011800



HP filter type 13 R

- Max. material pressure: 450 bar
- Material inlet: G 1"
- Part No.: 0065285



Inline filter

- Max. material pressure: 400 bar
- Material inlet: G 1"

Our guns for manual application

Advantages

- Flexible handling
- Effortless two- or four-finger trigger
- Optimal mobility thanks to ball-bearing swivel joint



Part No. WIWA 250 D: 0015032
Part No. WIWA 500 D: 0015016

WIWA 250 D (500 D)

- Material inlet pressure: 300 bar (500 bar)
- Material inlet: 1/4" NPSM / 3/8" NPSM
- Outlet tip (Part No.: 0669649)

i Outlet tips or needles must be ordered in addition to the gun.

▶ Extrusion application ◀



Part No. WIWA 250 D: 0015032
Part No. WIWA 500 D: 0015016

WIWA 250 D (500 D)

- Material inlet pressure: 300 bar
- Material inlet: 1/4" NPSM / 3/8" NPSM
- Outlet needle (Part No.: 0669650)

▶ Extrusion application ◀



Part No.: 0520012

Extrusion gun

- Material inlet pressure: 350 bar
- Material inlet: 3/8" NPSM
- Adjustable tip (included)

▶ Extrusion application ◀



Part No. WIWA 250 D: 0015032
Part No. WIWA 500 D: 0015016

WIWA 250 D (500 D)

- Material inlet pressure: 300 bar (500 bar)
- Material inlet: 1/4" NPSM
- Live swivel (included)

▶ Spraying application ◀

Our guns for automated application

Advantages

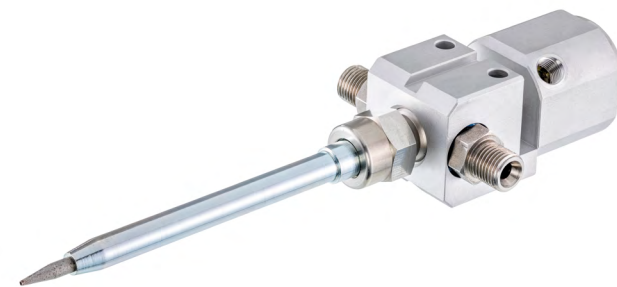
- Robust construction
- Can be used with and without circulation
- Connection option for pneumatic trigger release for even more precise, faster application



Part No.: 0630876

WIWA 250 automatic gun

- Material inlet pressure: 250 bar
- Material inlet: 1/4" NPSM
- Needle size: 4 mm



Part No.: 0646339

WIWA 225 automatic gun

- Material inlet pressure: 225 bar
- Material inlet: 1/4" NPSM
- Needle size: 3 mm / 4 mm



Part No.: 0669171

WIWA 250 needle outlet valve

- Material inlet pressure: 250 bar
- Material inlet: 1/4" NPSM
- Needle size: 2.5 mm



WIWA dosing valve

- Material inlet pressure: 3 - 20 bar (Part No.: 0669730) / 3 - 50 bar (Part No.: 0669740)
- Material inlet: 1/4" NPSM
- Needle size: 2,5 mm (also 1 mm or 4mm available)
- Dosing range: 0.001 - 3 cm³ / 0.003 - 0,2 cm³



Overdosing practically impossible:
With the WIWA dosing valve, the output can be precisely determined before application.

▶ Spraying application ◀

▶ Extrusion application ◀

▶ Extrusion application ◀

▶ Dosing application ◀



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