



Your project deserves it.



WIWA LOW-PRESSURE PUMPS GX



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# The right pump for every system solution

The proven WIWA air motors continue to be used for the new low-pressure pumps of the GX series.

The main features of the material pumps are a follower piston packing, easy assembly and disassembly thanks to coarser threads, and large material valves that allow even highly viscous inks to be sucked in easily. The material flow has been optimized and enables better cleaning of the pump. In addition, the **WIWA LP pumps GX** are particularly user-friendly, easy to maintain and durable due to the spring-loaded packings. The closed system due to the encapsulable release agent chamber is especially advantageous when processing ISO material.

Our low-pressure pumps can also be equipped with a powerful hydraulic motor for integration into mobile units with hydraulic power packs - for road marking, for example. We will be happy to advise you!



## Areas of application

- Feed and paint supply
- Spraying and coating technology
- Paint and varnish production and processing
- Paint circulation systems and painting lines
- Water supply for blasting systems or heating systems

## Materials

- Sprayable varnishes and paints
- Waterborne coatings
- Solvent-based coating materials
- Oils and greases
- Release agents
- Stains
- Adhesives and glues
- Plastics
- Sealants
- Bitumen
- Epoxies
- Underbody protection
- Roof coating material
- Insulating and thick-film materials
- Other high viscosity materials with high solids content
- Isocyanates

## Advantages

- Optimized material flow
- User-friendly, easy to maintain and durable
- Easy assembly and disassembly due to coarser threads

**i** RS = Stainless steel, rust and acid resistant    N = Normal steel, galvanized  
K = short version    L = long version  
Further pumps and descriptions of the individual versions can be found on the next page.

Technical data WIWA LP pumps GX					
Model	Version	Output per 60 cycles	Pressure ratio	Max. operating pressure	Part No.
72.03.7	Standard	4.33 l/min	3.7:1	29.6 bar	0669759 (RS-K)
	ISO				0670107 (RS-K)
	Glue				0669919 (RS-K)
	Water				0670140 (RS-K)
72.07.6	Standard	4.33 l/min	7.6:1	60.8 bar	0669758 (RS-K)
	ISO				0670108 (RS-K)
	Glue				0669920 (RS-K)
	Water				0670141 (RS-K)
72.011.4	Standard	4.33 l/min	11.4:1	91.2 bar	0669757 (RS-K)
	ISO				0670109 (RS-K)
	Glue				0669921 (RS-K)
146.01.8	Standard	8.8 l/min	1.8:1	14.4 bar	0669485 (RS-K)
	Standard				0669481 (RS-L)
	ISO				0669487 (RS-K)
	ISO				0669483 (RS-L)
	Glue				0669922 (RS-K)
	Water				0670136 (RS-K)
	ISO				0669809 (N-L)
146.03.7	Standard	8.8 l/min	3.7:1	29.6 bar	0669486 (RS-K)
	Standard				0669482 (RS-L)
	ISO				0669488 (RS-K)
	ISO				0669484 (RS-L)
	Glue				0669923 (RS-K)
	Water				0672990 (RS-L)
	ISO				0670137 (RS-K)
146.05.6	Standard	8.8 l/min	5.6:1	44.8 bar	0663033 (N-L)
	Standard				0667739 (RS-K)
	ISO				0667775 (RS-L)
	ISO				0667738 (RS-K)
	Glue				0667774 (RS-L)
	Water				0669924 (RS-K)
	ISO				0670138 (RS-K)
146.08	Standard	8.8 l/min	8:1	48 bar	0666083 (N-L)
	Standard				0673020 (RS-K)
	Standard				0673101 (RS-K)
	Standard				0673102 (RS-L)
					0673104 (RS-L)

Technical data WIWA LP pumps GX					
Model	Version	Output per 60 cycles	Pressure ratio	Max. operating pressure	Part No.
146.015.2	Standard	8.8 l/min	15.2:1	91.2 bar	0672760 (RS-K)
	Standard				0673106 (RS-K)
	Standard				0673103 (RS-L)
	Standard				0673105 (RS-L)
374.05.2	Standard	22.44 l/min	5.2:1	41.6 bar	0670164 (N-K)
	Standard				0670165 (N-L)
	Standard				0669753 (RS-K)
	Standard				0669754 (RS-L)
	ISO				0670207 (N-K)
	ISO				0670208 (N-L)
374.09.5	Standard	22.44 l/min	9.5:1	76 bar	0670166 (N-K)
	Standard				0670167 (N-L)
	Standard				0669210 (RS-K)
	Standard				0669263 (RS-L)
	ISO				0670209 (N-K)
	ISO				0670210 (N-L)
	ISO				0670531 (RS-K)
603.03.2	Standard	36.18 l/min	3.2:1	25.6 bar	0670168 (N-K)
	Standard				0669860 (RS-K)
	ISO				0670211 (N-K)
603.05.9	Standard	36.18 l/min	5.9:1	47.2 bar	0670169 (N-K)
	Standard				0669321 (RS-K)
	ISO				0670212 (N-K)
603.012.1	Standard	36.18 l/min	12.1:1	78.65 bar	0670170 (N-K)
	Standard				0669755 (RS-K)
	ISO				0670213 (N-K)

Version	Standard	ISO	Water	Glue
Description	<ul style="list-style-type: none"> <li>Standard or stainless steel version</li> <li>Short or long version</li> </ul>	<ul style="list-style-type: none"> <li>Closed packing template and special seals</li> </ul>	<ul style="list-style-type: none"> <li>Stainless steel and special seals</li> </ul>	<ul style="list-style-type: none"> <li>Stainless steel, with special seals and double pistons</li> </ul>
Material / area of application	<ul style="list-style-type: none"> <li>Paints and coating materials</li> </ul>	<ul style="list-style-type: none"> <li>Isocyanates or isocyanate-containing paints</li> </ul>	<ul style="list-style-type: none"> <li>Water</li> </ul>	<ul style="list-style-type: none"> <li>Cold glue</li> <li>Feeding of labeling machines</li> <li>Supply of dowel setting machines</li> </ul>

## System solution for small containers and individual workstations

### Advantages

- Easy handling
- Perfect spray result
- High application rate



Part No. complete system: 0672415 (RS)

#### Suitable for

- One delivery point with low consumption

#### Components

- LP pump 146.1.8
- Hose package for compressed air and glue (Part No.: 0669474)
- Compressed air regulator
- Glue gun (Part No.: 0520041)

#### Technical data

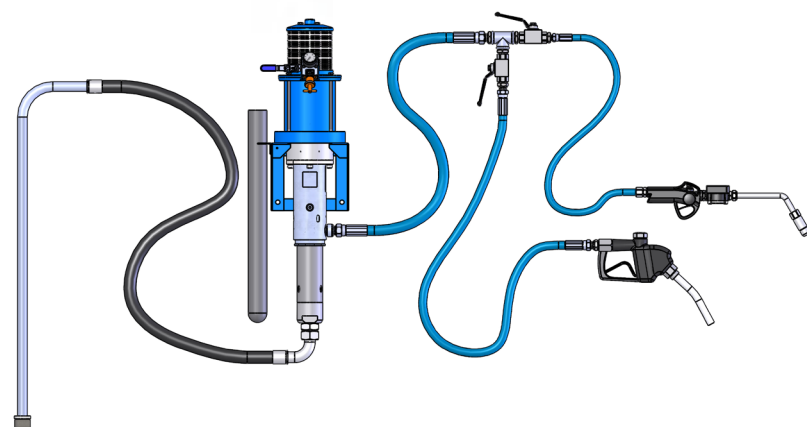
- Max. output (per 60 cycles): 8.8 l/min
- Pressure ratio: 1.8:1



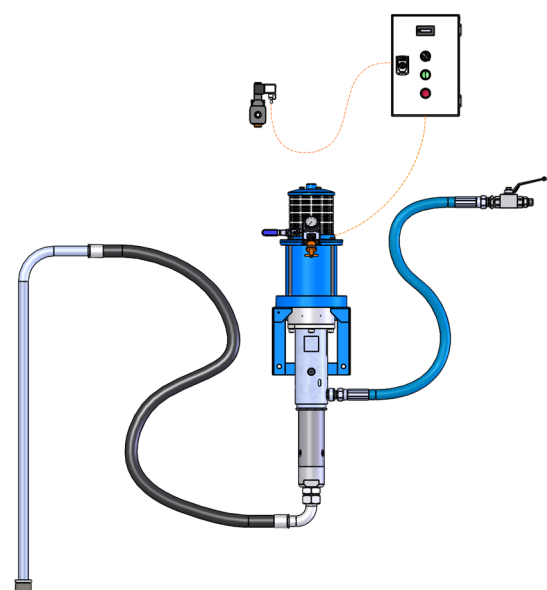
RS = Stainless steel, rust and acid resistant   N = Normal steel, galvanized   R = Stainless steel  
Hose package and gun are not included in the complete system part numbers.



## System solutions for 30 and 200 liter containers

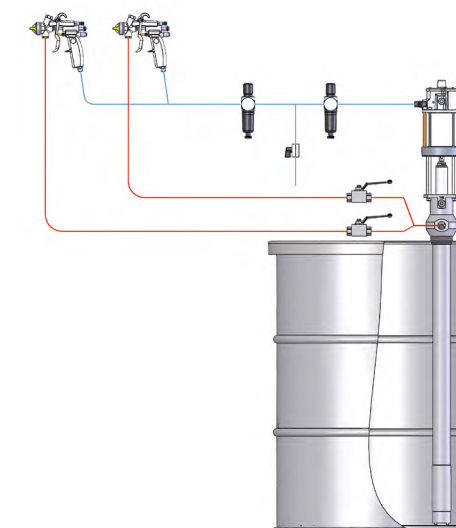
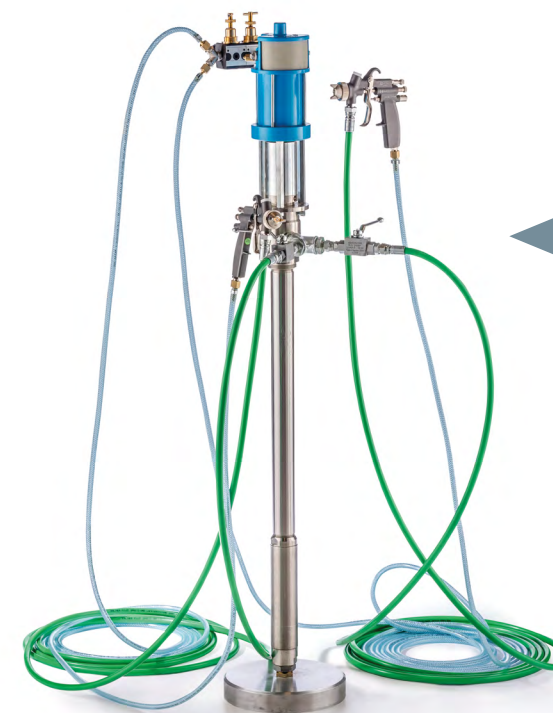


Suitable for
<ul style="list-style-type: none"> <li>• Filling or dosing</li> <li>• Low consumption</li> </ul>
Components
<ul style="list-style-type: none"> <li>• LP pump GX</li> <li>• Compressed air regulator</li> <li>• Wall bracket</li> <li>• Suction kit</li> <li>• Dispensing or dosing valve</li> </ul>
Technical data
<ul style="list-style-type: none"> <li>• Max. output (per 60 cycles): 8.8 - 22.44 l/min</li> <li>• Pressure ratio: 3.7 - 9.5:1</li> </ul>



Suitable for
<ul style="list-style-type: none"> <li>• Dosing</li> <li>• One delivery point with low consumption</li> </ul>
Components
<ul style="list-style-type: none"> <li>• LP pump GX</li> <li>• Compressed air regulator</li> <li>• Wall bracket</li> <li>• Suction kit</li> <li>• Dosing control</li> <li>• Automatic valve</li> </ul>
Technical data
<ul style="list-style-type: none"> <li>• Max. output (per 60 cycles): 8.8 - 22.44 l/min</li> <li>• Pressure ratio: 3.7 - 9.5:1</li> </ul>

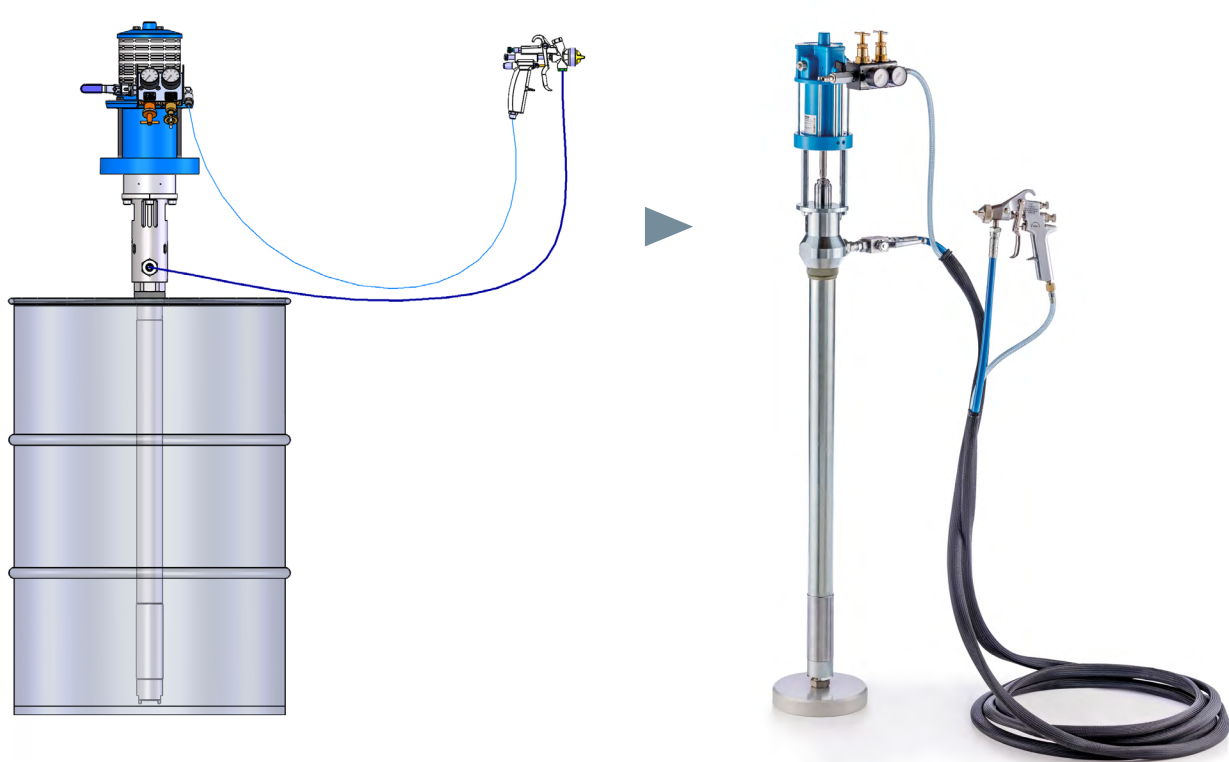
## System solution for 200 liter bunghole drums



Part No. complete system for one gun: 0669685 (RS)

Suitable for	Technical data
<ul style="list-style-type: none"> <li>• One to four delivery points with high consumption</li> </ul>	<ul style="list-style-type: none"> <li>• Max. output (per 60 cycles): 8.8 l/min</li> <li>• Pressure ratio: 1.8:1</li> </ul>
Components	
<ul style="list-style-type: none"> <li>• LP-pump 146.1.8 with connection for guns</li> <li>• Hose package for compressed air and glue (Part No.: 0669474)</li> <li>• Glue gun (Part No.: 0520041)</li> </ul>	

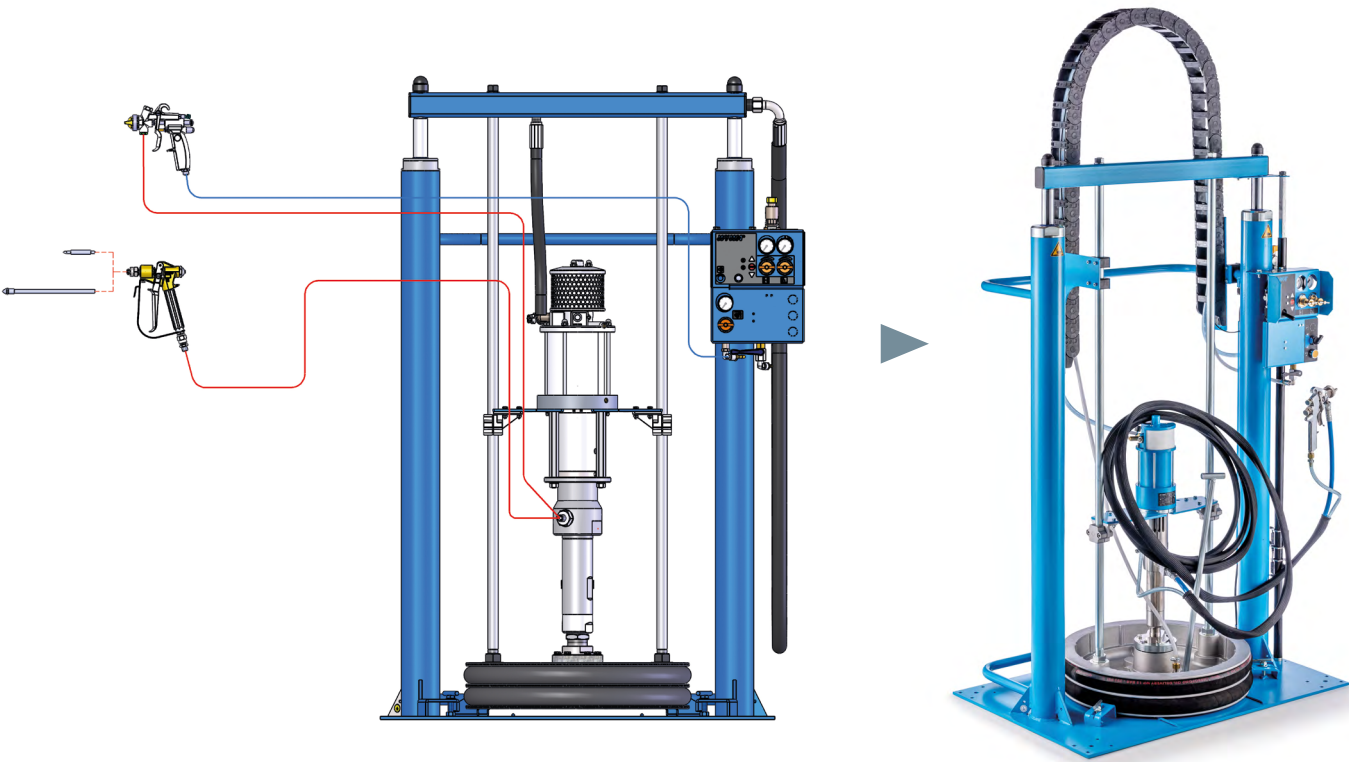
### System solution for 200 liter containers (direct suction)



Part No. complete system 146.8: 0673130 (RS)  
 Part No. complete system 374.09.5: 0673131 (N)

Suitable for	Components
<ul style="list-style-type: none"> <li>One delivery point</li> </ul>	<ul style="list-style-type: none"> <li>LP pump 146.8 / 374.09.5</li> <li>Hose package for compressed air and glue</li> <li>Compressed air regulator</li> <li>Mastic gun</li> </ul>
Technical data	
<ul style="list-style-type: none"> <li>Max. output (per 60 cycles): 8.8 - 22.44 l/min</li> <li>Pressure ratio: 8:1 - 9.5:1</li> </ul>	

### System solution for 200 liter containers



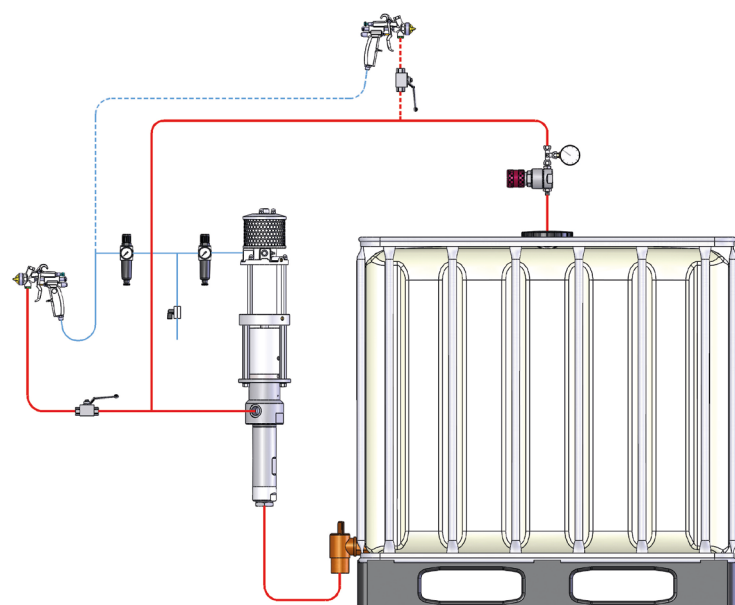
Part No. complete system mastic gun: 0669503 (R)  
 Part No. complete system extrusion gun: 0669504 (R)

Suitable for	Components	Technical data
<ul style="list-style-type: none"> <li>One to two delivery points</li> <li>Spraying or extrusion</li> </ul>	<ul style="list-style-type: none"> <li>LP pump</li> <li>Hose package for compressed air and glue with all connections</li> <li>Compressed air regulator</li> <li>Twin post ram</li> <li>Following plate</li> <li>Mastic or extrusion gun</li> </ul>	<ul style="list-style-type: none"> <li>Max. output (per 60 cycles): 22.5 l/min</li> <li>Pressure ratio: 9,5:1 (with LP pump 375.09.5)</li> </ul>

## System solution for 1000 liter IBC

### Advantages

- Environmentally friendly due to lower number of waste containers
- Reduced operational costs thanks to longer service life of the containers
- Frequency of container switch out reduced by feeding with large containers



Part No. complete system 375.05: 0669167 (R)

Part No. complete system 600.06: 0669168 (R)

Suitable for
<ul style="list-style-type: none"> <li>• Central adhesive supply via ring line</li> <li>• Up to 50 delivery points with high consumption</li> </ul>
Components
<ul style="list-style-type: none"> <li>• LP pump 375.05 / 600.06</li> <li>• Feed hose for connection to an adhesive ring line</li> <li>• Circulation regulator for constant material pressure</li> <li>• Compressed air regulator</li> <li>• Hose package for compressed air and glue (Part No.: 0669474)</li> <li>• Glue gun (Part No.: 0520041)</li> </ul>
Technical data
<ul style="list-style-type: none"> <li>• Max. output (per 60 cycles): 22.5 - 36 l/min</li> <li>• Pressure ratio: 5:1 - 6:1</li> </ul>

## Solvent-borne adhesives ... properties, advantages and disadvantages

With solvent-borne adhesives, the adhesive substances - also called binders - are dissolved in (a mixture of different) organic solvents. Binding agents, which make up a substantial part of the solids content, are often resins or rubber.

Solvents initially serve as a means of transport by keeping the binders pliable. During the processing of the adhesive they evaporate, leaving undiluted adhesive at the end. They also influence, for example, the adhesion of an adhesive by promoting wetting and effecting the flash-off time through the speed the solvents evaporate.

There are two types of solvent-borne adhesives: Products that soften the

surface to be bonded and contact adhesives. These form the largest group of adhesives and must be applied alternately to the two surfaces you want to join. There they dry for a pre-determined period before the two surfaces are bonded together. Especially with vertical surfaces, the advantage here is that a certain initial strength is immediately available.

More environmentally-friendly, highsolid or super-high-solid adhesives with reduced solvent content are steadily gaining popularity. One reason is that less volatile organic compounds are released into the environment. They are also less flammable.

Product group	Solid	High-Solid	Super-High-Solid
Solids content	Ca. 50 %	Ca. 60-70 %	> 70 %
Viscosity	Up to 500 mPas	Up to 1.000 mPas	> 1.000 mPas
Areas of application e.g.	Metal, wood, textile, felt, high-quality foam bonds	Foam, wood, hardboard and composite board, cardboard, rubber hair, styrofoam	


**i** High-solids adhesives have the advantages of reduced flammability, reduction in the quantity of adhesive required and reduced transportation costs. Furthermore, there is less packaging waste.



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