Subject to change



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- MP 400 with pressure equalisation container, material filter and material MP 100
 MP 400
 MP 560 with mobile frame

Mobile frame

- **9** MP 560

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Diaphragm pumps MP 100

The compressed air-driven Krautzberger diaphragm pumps are specifically tailored to requirements in the field of spraying technology. The compact and sturdy design permits universal use, and the large valve cross sections also allow use with highly viscous media.

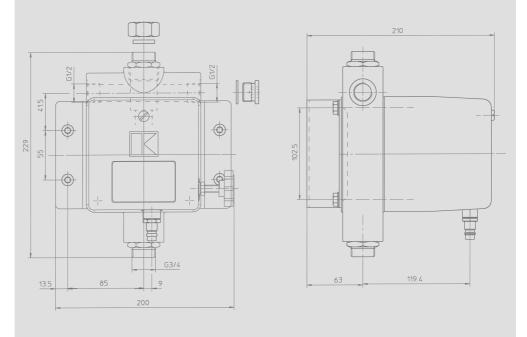
A mounted pressure equalisation container ensures smooth and low-pulsation operation. A material pressure regulator installed downstream (a suitable material filter is also recommended) permits precision setting of extremely small pressures.

The technical data are based on an air inlet pressure of 8 bar. The pumps of course also function perfectly at low pressures.

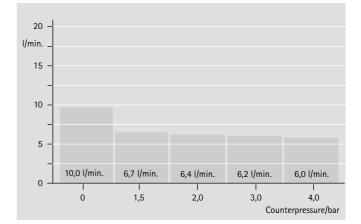
Krautzberger diaphragm pumps are also used where piston or centrifugal pumps are unsuitable – for example, for the pumping of dyes, paints, glues, dispersions, solvents, oils, glazing agents, enamels, wood preservatives, petroleum products, chocolate, sugar syrup, jam, ketchup etc.

The pump body is made of aluminium with hard-coated surface as standard. This makes the pump extremely hardwearing as well as resistant to media with a pH of between 3.0 and 8.0. The pumps are also suitable for use in the food industry.

The valves are available in either stainless steel or tungsten carbide (stainless steel), the diaphragms in PTFE or NBR. The



pumps are equipped for wall mounting as standard but are also available on request as a unit mounted on a trolley with storage space for the material drum or as a portable unit mounted on a cover (for mounting on the material feed container (e.g. euro hobbock). Suitable stirrers for mounting on this cover are also available.



[Delivery volume, measured using water with 100 pump strokes/ minute (recommended max. output)]

Technical data

Pump body: Pressure equalisation tank:	
polyamide, with detachable	5
polyamide, with detachable	cover and pressure gauge
Delivery:	10 litres/min.
Pressure:	max. 6.5 bar
Stroke rate:	max. 120/min.
Recommended stroke rate:	100/min.
Air inlet pressure:	min. 4 bar, max. 8 bar
Air consumption at 8 bar:	approx. 80 litres/min.
Weight:	

Diaphragm pumps MP 400

The compressed air-driven Krautzberger diaphragm pumps are specifically tailored to requirements in the field of spraying technology. The compact and sturdy design permits universal use, and the large valve cross sections also allow use with highly viscous media.

A mounted pressure equalisation container ensures smooth and low-pulsation operation. A material pressure regulator installed downstream (a suitable material filter is also recommended) permits precision setting of extremely small pressures.

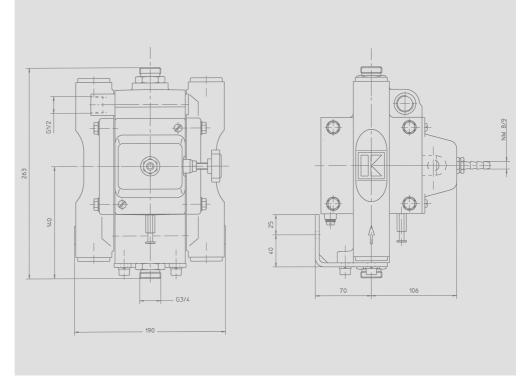
The technical data are based on an air inlet pressure of 8 bar. The pumps of course also function perfectly at low pressures.

Krautzberger diaphragm pumps are also used where piston or centrifugal pumps are unsuitable – for example, for the pumping of dyes, paints, glues, dispersions, solvents, oils, glazing agents, enamels, wood preservatives, petroleum products, chocolate, sugar syrup, jam, ketchup etc.

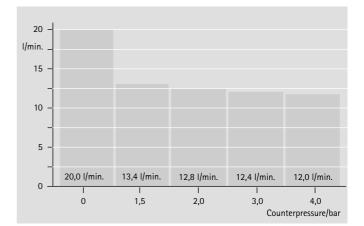
The pump body is made of aluminium with hard-coated surface as standard. This makes the pump extremely hardwearing as well as resistant to media with a pH of between 3.0 and 8.0. The pumps are also suitable for use in the food industry.

The valves are available in either stainless steel or tungsten carbide (stainless steel), the dia-

Subject to change



phragms in PTFE or NBR. The pumps are equipped for wall mounting as standard but are also available on request as a unit mounted on a trolley with storage space for the material drum or as a portable unit mounted on a cover (for mounting on the material feed container (e.g. euro hobbock). Suitable stirrers for mounting on this cover are also available.



[Delivery volume, measured using water with 100 pump strokes/ minute (recommended max. output)]

Technical data

Pump body:	. aluminium, hard-coated
Pressure equalisation tank:	fibre glass-reinforced
polyamide, with detachable	cover and pressure gauge
Delivery:	20 litres/min.
Pressure:	max. 8 bar
Stroke rate:	max. 120/min.
Recommended stroke rate:	100/min.
Air inlet pressure:	min. 4 bar, max. 8 bar
Air consumption at 8 bar:	approx. 160 litres/min.
Weight:	7.5 kg

Order no. 6560-200-0192

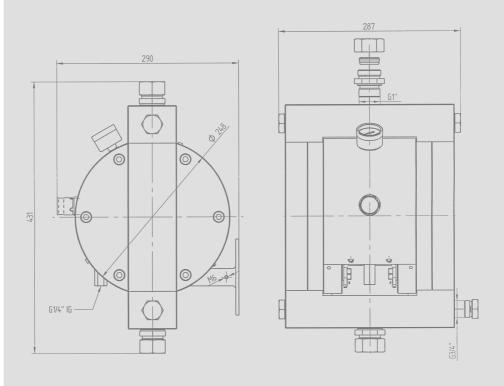
Membranpumpen MP 560

The compressed air-driven Krautzberger diaphragm pumps are specifically tailored to requirements in the field of spraying technology. The compact and sturdy design permits universal use, and the large valve cross sections also allow use with highly viscous media.

A mounted pressure equalisation container ensures smooth and low-pulsation operation. A material pressure regulator installed downstream (a suitable material filter is also recommended) permits precision setting of extremely small pressures.

The technical data are based on an air inlet pressure of 8 bar. The pumps of course also function perfectly at low pressures.

Krautzberger diaphragm pumps are also used where piston or centrifugal pumps cannot be used – for example, for the transport of paints, lacquers, glues, dispersions, solvents, oil, glazing agents, enamel, wood preservation agents, mineral oil products etc.



The pump body is made of stainless steel as standard. This makes it extremely resistant to wear.

The pumps are equipped for wall mounting as standard but can also (on request) be supplied on a trolley with a storage surface for the material container.

Technical data

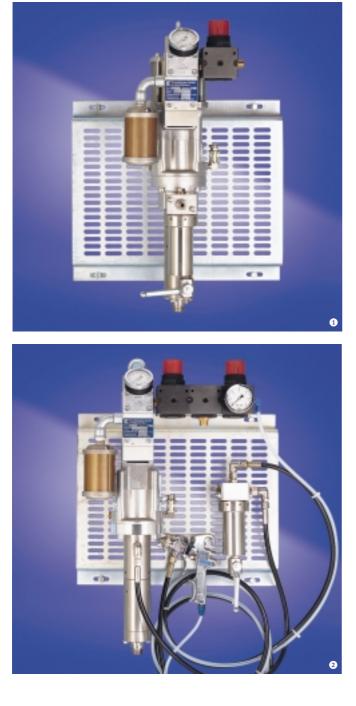
Pump body:	Stainless steel
Pressure equalisation tank: fibre g	lass-reinforced polyamide,
with detachable	cover and pressure gauge
Delivery:	55 litres/min.
Pressure:	max. 8 bar
Recommended stroke rate:	100/min.
Air inlet pressure:	min. 4 bar, max. 8 bar
Weight:	50 kg

Pumps

l S

Material	Stainless steel	Plastic		
	Х	+		
Diaphragm	PTFE	NBR		
	х	+		
Valve seats	Stainless steel	Plastic	Tungsten carbide	
	X	+	+	
Valve ball	Stainless steel	Plastic	NBR with steel core	
	X	+	+	
Suction connection	Stainless steel	Plastic		
Straight screw connection G 1" AG, with union nut and cutting ring	х	+		
Reducing piece G 3/4" AG, with union nut and cutting ring	+	+		
Material outlet, right	Stainless steel	Plastic		
Double nipple G 3/4" AG	+	+		
Ball valve G 1/2" IG	+	+		
Drain plug	Х	+		
Material outlet, left	Stainless steel	Plastic		
Double nipple G 3/4" AG	+	+		
Ball valve G 1/2" IG"	+	+		
Drain plug	х	+		
Material outlet, top	Stainless steel	Plastic		
Straight screw connection G 1" AG	х	+		
Reducing piece to 3/4" AG	+	+		
With pressure equalisation container	+	+		
With drain plug	+	+		







- Type 30-20
 Type 9-20 Duo
 Type 22-115
 Type 30-50 Airless
 Type 15-50 Airless with heater

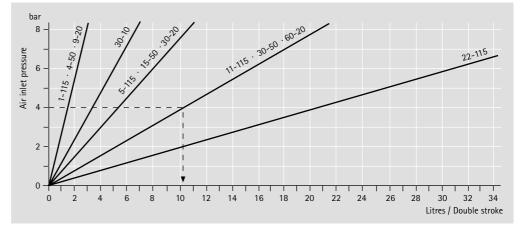




Piston pumps

The pneumatically driven Krautzberger piston pump sucks the coating substance from the material container through a suction hose or a suction pipe and subjects it to pressure. When it leaves the spray gun, the medium is atomised through a special nozzle by the high pressure. The hydraulic piston is a differential piston and moves up and down in the working cylinder of the hydraulic section.

During the upward stroke, the ball of the suction valve and the coating medium is sucked into the lower chamber of the working cylinder. At the same time, the ball of the pressure valve in the piston is pressed onto its seat and the medium displaced from the upper ring chamber of the working cylinder into the pressure line. During the downward stroke, the ball of the suction valve is pressed onto its seat and the ball of the pressure valve moves upward. The piston displaces half of the medium from the lower chamber of the working cylinder into the upper chamber and the other half into the pressure line. The piston rod of the air piston motor is connected to the pump piston and transmits the motion in a linear fashion. The piston motion is generated by the alternating feed of compressed air to the air motor piston and controlled by a four-way air valve. As long as compressed air is fed into the control section via the pressure reducing valve, the thrust piston motor continues to operate until the pump has built up a sufficient hydraulic pressure in the pressure line to counterbalance the thrust of the incoming compressed air. The pump then remains in quiescent position until the hydraulic pressure begins to fall as a result, for example, of operation of the spray gun. The pump then continues to pump



Example:	
Pump type:	30 – 50
Air inlet pressure:	4 bar
Air consumption/Double stroke:	10.2 litres

Piston pumps

and maintains the dynamic equi-

librium between air pressure

and hydraulic pressure. The se-

lected nozzle size and the set

spraying pressure determine the

stroke rate (strokes per minute)

thus also the spraying capacity

of the pump. All pump compo-

um are made of high-grade

stainless steel.

nents in contact with the medi-

and the air consumption and

Туре	Applications	Theoretical	Delivery	Max. re-	Max.	max.	max. re-	max.
		transmission	volume	commended	air inlet	operating	commended	delivery
		ratios	per double	double	pressure	pressure	spraying rate	volume
			stroke	strokes	in bar	in bar	l/min.2)	l/min.1)
				per minute				
30 - 10	Airless / Duo	30 : 1	20 ccm	50	8 bar	240 bar	1,0 I	2,0 l
9 - 20	ND Airless / Duo	9:1	40 ccm	50	8 bar	72 bar	2,0 I	4,0 I
30 - 20	Airless / Duo	30 : 1	40 ccm	50	8 bar	240 bar	2,0 I	4,0 I
60 - 20	Airless	60 : 1	40 ccm	50	8 bar	480 bar	2,0 I	4,0 I
4 - 50	Low-pressure Airless	4:1	100 ccm	50	8 bar	32 bar	5,0 I	10,0 l
15 - 50	Airless / Duo / Hot	15 : 1	100 ccm	50	8 bar	120 bar	5,0 l	10,0 l
30 - 50	Airless / Duo / Hot	30 : 1	100 ccm	50	8 bar	240 bar	5,0 I	10,0 l
Mordant	Low-pressure Airless	4:1	100 ccm	50	8 bar	32 bar	5,0 l	10,0 l
1 - 115	Material feed	1,5 : 1	230 ccm	50	6 bar	9 bar	11,5 l	23,0 I
5 - 115	Low-pressure Airless /	5:1	230 ccm	50	6 bar	30 bar	11,5 l	23,0 I
	/ Material feed							
11 - 115	Airless / Duo / Hot	11 : 1	230 ccm	50	6 bar	66 bar	11,5 l	23,0 I
22 - 115	Airless / Duo / Hot	22:1	230 ccm	50	6 bar	132 bar	11,5 l	23,0 I

¹⁾ measured at 100 double strokes/minute ²⁾ measured at 50 double strokes/minute