



The AM single-piston pump is a robust pneumatic pump. It is suitable for automated lubrication tasks that have to be lubricated several times a day up to a maximum of once a minute. The single-piston pump is available with float switch for oil, with capacitive level control for oil or fluid grease or without level control.

1. LAYOUT

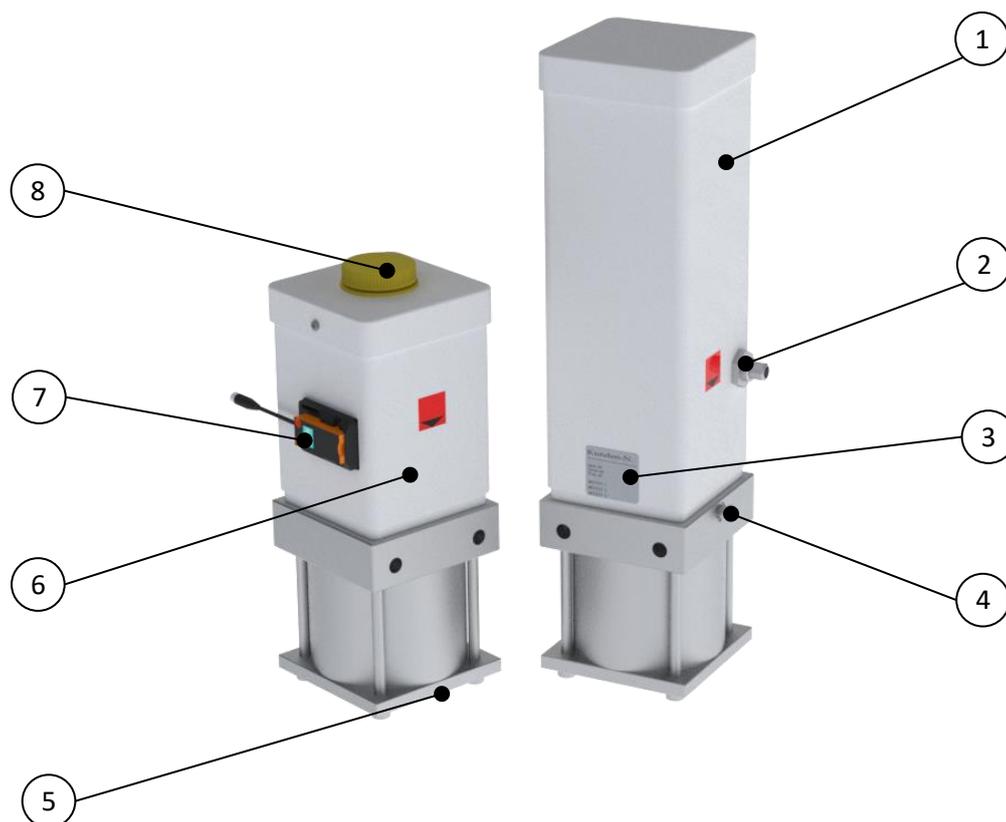


Figure 1

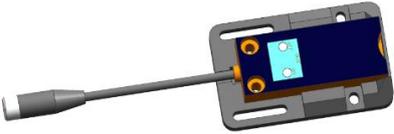
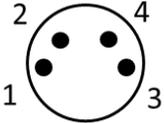
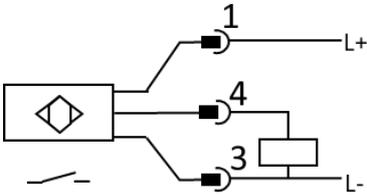
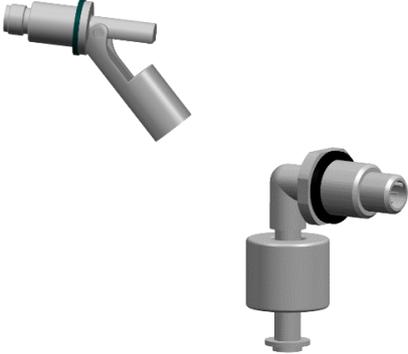
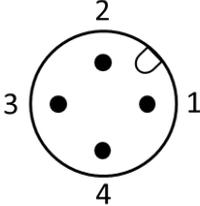
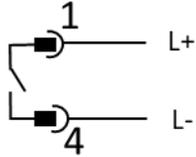
- | | |
|--------------------------------|------------------------------|
| 1. Tank, 3.0L | 5. Pneumatic line connection |
| 2. Level control, Float switch | 6. Tank, 1.2L |
| 3. Type label | 7. Level control, capacitive |
| 4. Lubrication line connection | 8. Screw cap |



2. TECHNICAL DATA

General	
Type	Single piston pump
Lubrication line connection	Pipe connection \varnothing 6mm
Ambient temperature	0° to 80°C
Filling	manual
Installation position	vertical
Protection class as per EN60529	IP 67
Weight	4.1 kg (1.2 l container) 4.3 kg (3.0 l container)
Application	single line lubrication systems
Hydraulic system	
Transmission	$P_{Fluid} = 10,0 \times (P_{Air} - 0,6)$
Operating pressure	60 bar
Conveyor volume	25 cm ³ /stroke
Operating medium	Fluid grease, oil
Viscosity range	NLGI 000-0 NLGI (according to fluid grease release list) 50-750mm ² /s
Drive	
Type of drive	pneumatic
Supply pressure	4 to 6 bar
Supply connection	G ¼



Sensor level control			
<p>Capacitive level control</p> 	Nominal voltage	24 V DC	
	Switching current	≤ 100 mA	
	Current consumption (idle)	≤ 17 mA	
	Connection	M8x1	 
<p>Float switch</p> 	Nominal voltage	24 V DC	
	Switching current	≤ 100 mA	
	Connection	M12x1	 



3. DIMENSION

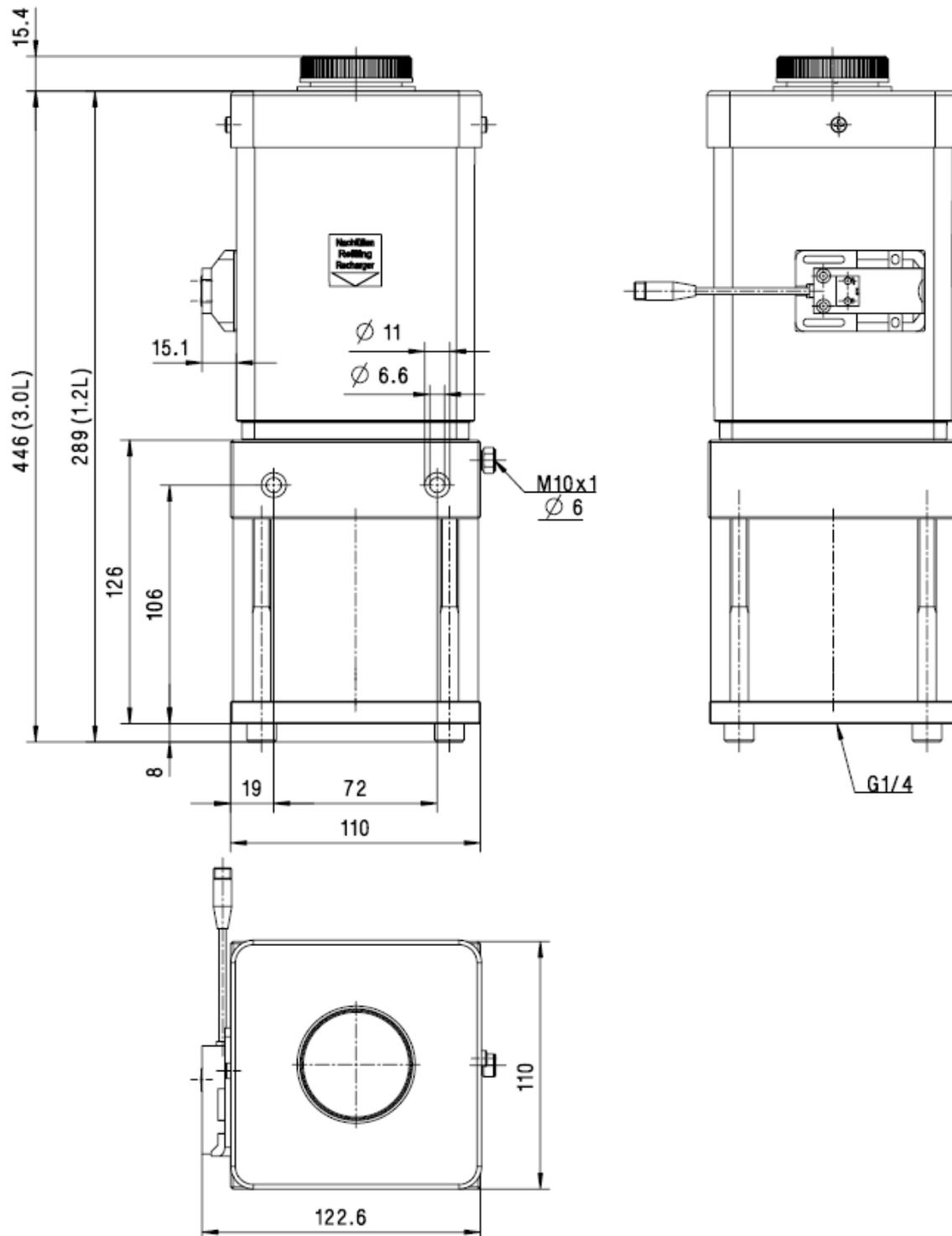


Figure 2: Single Piston Pump AM with capacitive level control

i M10x1 or Ø6 see table ordering information (column: main line connection)

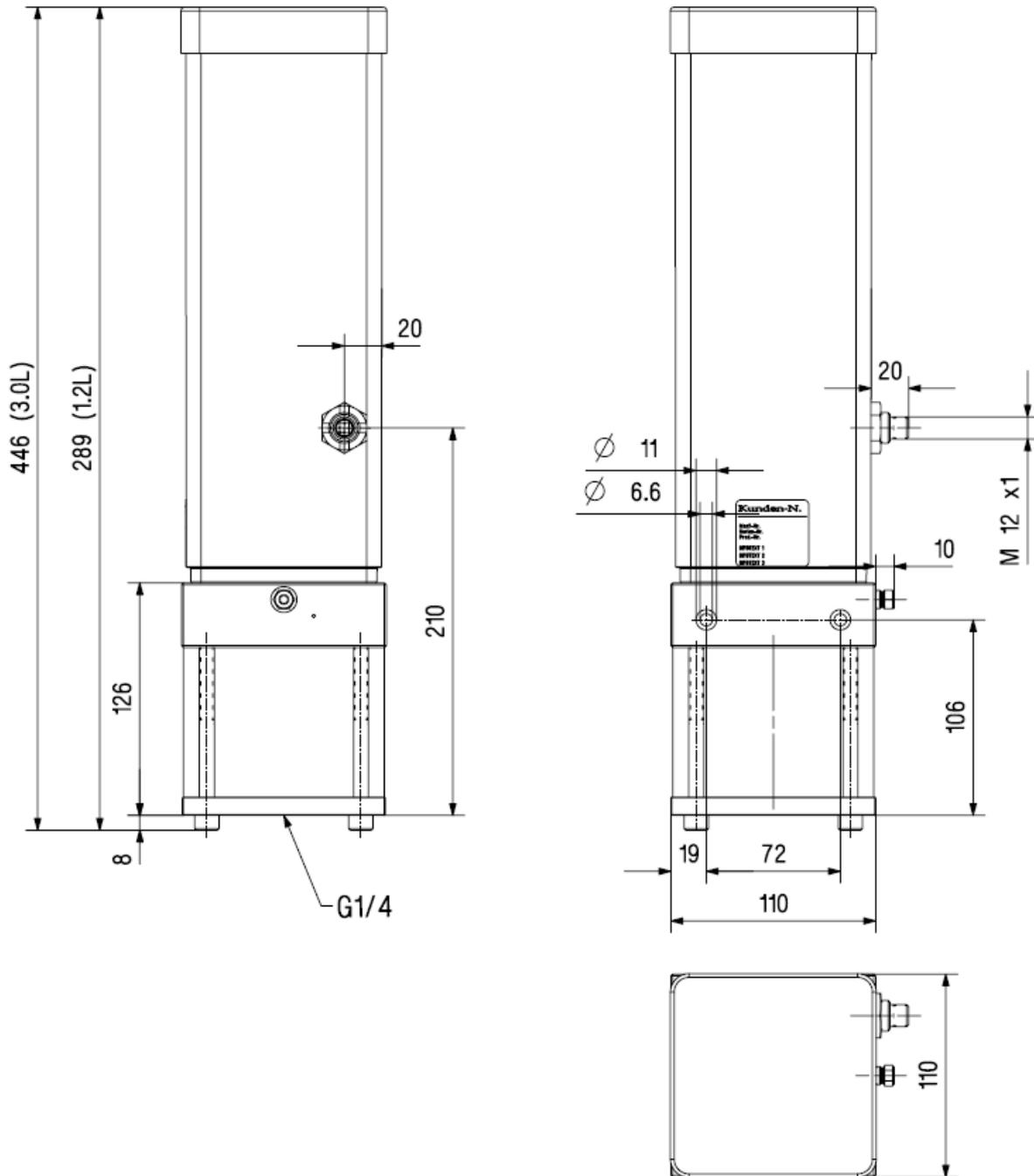


Figure 3: Single Piston Pump AM with float switch



Fluidplan

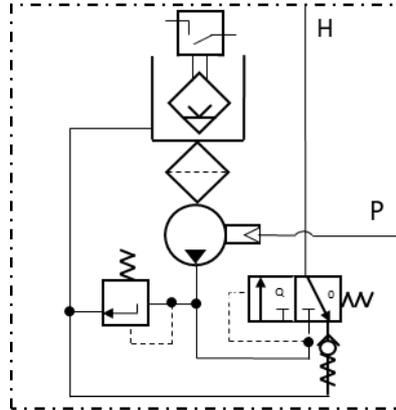


Figure 4: Fluidplan

4. ORDER INFORMATION

4.1. WITHOUT LEVEL CONTROL

Tank	Main line connection	Level control	Sieve	Charging nipple	Relief valve	Miscellaneous	Order number
1.2L	<i>M10x1, left</i>	-	-	-	<i>0.5 bar</i>		P30011661
3.0L	<i>6mm, right</i>	-	<i>X</i>	-	<i>0.7 bar</i>	<i>L-Type plug screw fitting. 6mm compressed air</i>	P30011635

Other versions are configured on request.

4.2. WITH FLOAT SWITCH (NOT FOR FLUID GREASE)

Tank	Main line connection	Level control	Sieve	Charging nipple	Relief valve	Miscellaneous	Order number
3.0L	<i>6mm, right</i>	<i>right</i>	<i>X</i>	-	<i>0.7 bar</i>		P30011626
	<i>6mm, right</i>	<i>right</i>	<i>X</i>	-	<i>1.5 bar</i>		P30011632

Other versions are configured on request.



4.3. WITH CAPACITIVE LEVEL CONTROL

Tank	Main line connection	Level control	Sieve	Charging nipple	Relief valve	Miscellaneous	Order number
1.2L	6mm, left	left	X	-	1.5 bar		P30011634
	6mm, right	left	X	-	0.5 bar	With screw cap	P30011637
	6mm, right	right	X	-	0.5 bar		P30011649
	M10x1, right	front	X	-	0.5 bar		P30011654
	6mm, left	left	X	-	0.3 bar	Reduced Relief pressure	P30011660
	6mm, left	left	X	Flat, front	0.5 bar		P30011662
3.0L	6mm, left	left	X	-	0.7 bar		P30011639
	6mm, right	right	X	-	1.5 bar	With screw cap	P30011642
	6mm, right	right	X	-	0.5 bar	L-Type plug screw fitting. 6mm compressed air	P30011643
	M10x1, right	front	X	Quick coupling, front	0.5 bar		P30011644
	6mm, right	right	X	-	0.5 bar		P30011650
	6mm, right	right	X	-	0.7 bar		P30011651
	M10x1 right	right	X	-	-	External pressure Relief valve	P30011656

Other versions are configured on request.



5. SPARE PARTS

	Designation	Description	Order number
	Cap	for tank	P30400600
	Double taper ring	for lubrication line connection	P30215201
	Cap screw	for lubrication line connection	P30256621

6. ACCESSORY PARTS

	Designation	Designation	Order number
	Fixing screw	M6x25	P62004053
	Locking washer	for M6	P62050004
	3/2-way valve set, 24 V DC, 3W	compressed air control	P30023403
	3/2-way valve set, 230 V AC, 6.5W VA	compressed air control	P30023404
	Connecting cable 5m, M8x1 Cable box;	for level control	P67202099
	Connecting cable 15m, M8x1 Cable box;		P67660403
	Connecting cable 5m, M12x1 Cable box;	for float switch	P67202034
	Connecting cable 20m, M12x1 Cable box;		P67202463