

Air powered lubrication cartridge pump MGA

Single-shot grease pump for trucks, vehicle attachments and machines in automation and material handling

**COST EFFICIENT,
SIMPLE AND SPACE
SAVING AUTOMATIC
LUBRICATION
SOLUTION**



grease up to
NLGI grade 2



up to 300 bar
(4 350 psi)



-20 to 60 °C
(-4 to 140 °F)



up to 0.24 cm³/stroke
(up to 0.014 in³/stroke)



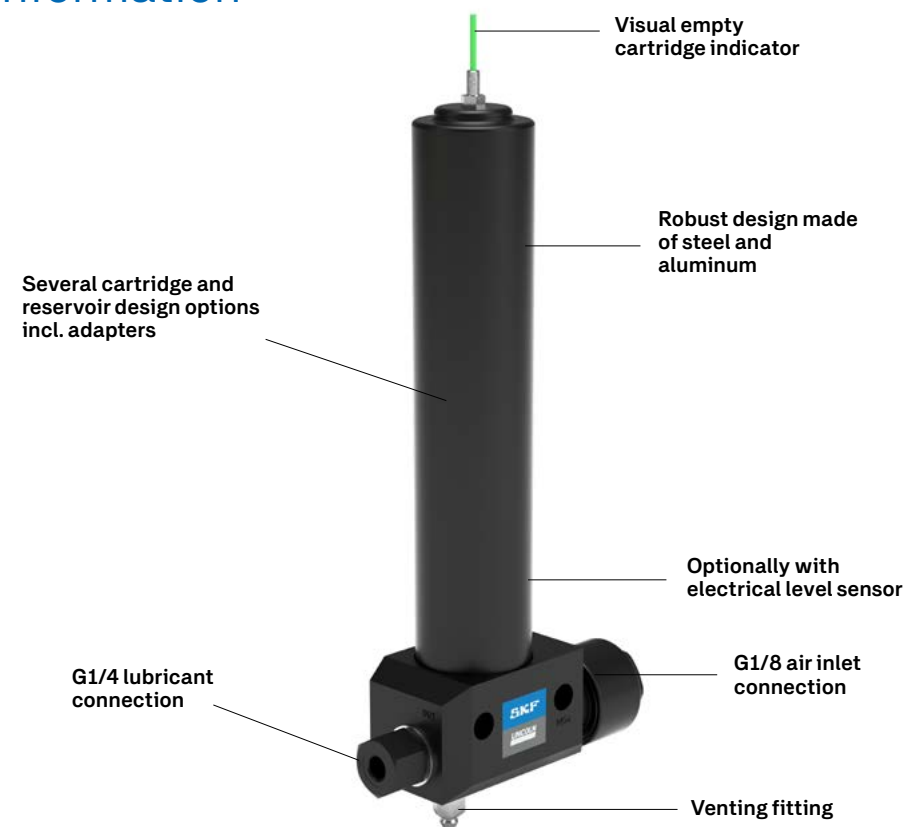
380 to 500 ml
(12.8 to 16.9 oz)



Applications

- Vehicles and attachments
- Material handling
- Automation

Product information



Description

The MGA grease cartridge pump is designed for pneumatically driven machines with very limited installation space available. It can supply individual lubrication points directly or operate in a system with progressive metering devices for up to 22 lubrication points. The lubricant cartridge enables easy maintenance, making it ideal for trucks, trailers, and vehicle attachments, as well as pneumatic material handling applications. The robust design of the MGA pump, with its protective cartridge cover, makes it very suitable for applications in demanding environments. MGA pump elements deliver dosing quantities from 0.04 cm³ to 0.24 cm³ per shot. The Lube-Shuttle version, with a cover, features an optical low-level indicator and can be installed horizontally if needed.

Features and benefits

- Economical retrofitting of automatic lubrication solution for pneumatically operated machines and vehicles
- Market proven pump elements (P203) for reliable lubricant supply
- Easy combination with SKF progressive metering devices as SSV and SSVD
- System pressures up to 300 bar
- Designed for 24/7 operation
- Easy to install and start up

Technical data

Function	air operated piston pump
Lubricant	grease up to NLGI 2
Number of outlets ¹⁾	1
Metering quantity range	0.04 to 0.24 cm ³ /stroke 0.006 to 0.014 in ³ /stroke
Pump element K5	0.10 cm ³ /stroke; 0.006 in ³ /stroke
Pump element K6	0.16 cm ³ /stroke; 0.009 in ³ /stroke
Pump element K7	0.22 cm ³ /stroke; 0.013 in ³ /stroke
Pump element KR (adjustable)	0.04 to 0.18 cm ³ /stroke; 0.002 to 0.01 in ³ /stroke
Operating frequency	max. 6 strokes per minute
Operating temperature	−20 to 60 °C; −4 to +140 °F
Operating pressure	max. 300 bar; max. 4 350 psi (K5&K6 pump elements)
Actuation air pressure	4–10 bar, 58–145 psi
Reservoirs/cartridges	380 to 500 ml 12.8 to 16.9 oz
Material	aluminum, steel, brass, NBR seals
Air connection	G1/8
Connection outlet	G1/4
Dimensions incl. cartridge cover	max. 390 × 150 × 60 mm max. 15.35 × 5.90 × 2.36 in
Weight	max 1.5 kg; 3.0 lbs (incl. cartridge cover)
Mounting position	upright / any with spring loaded cover

¹⁾ SKF progressive metering devices with 6–22 outlets have to be ordered separately.

Cartridge and reservoir designs



- 1 MGA-TNLN-...
- 2 MGA-SPLN-...
- 3 MGA-SPLN-...
- 4 MGA-LPLI-...
- 5 MGA-LNLN-...
- 6 MGA-RNLN-...

Easy filling/cartridge exchange

The MGA grease cartridge pump is compatible with a wide range of cartridges, especially those with an internal piston, ensuring clean and trouble-free replacement. Lube-Shuttle cartridges with SKF grease can be easily filled using the SKF refilling pumps.

Function principle

The MGA grease cartridge pump can be used with air powered machines. Installation is simple:

Connect the pump inlet to the machine's air pressure line. Pressurizing the line will trigger a shot of grease from the pump outlet connection. Note that after each grease shot, the pneumatic line pressure has to be relieved by the machine for a few seconds. Relieving will enable loading of the next grease shot. Variants with a spring-loaded cartridge piston will ensure operation even when mounted horizontally.

Order information



Order information							
Order number ¹⁾	Description	Metering quantity/stroke		Cartridge or reservoir size		Level control	
		cm ³	in ³	ml	oz		
MGA-LPLI-K70000	MGA with covered Lube-Shuttle grease cartridge	0.22	0.013	400	13.5	visual indicator	
MGA-LPLI-KR0000	MGA with covered Lube-Shuttle grease cartridge	0.04–0.18 ²⁾	0.006–0.014 ²⁾	400	13.5	visual indicator	
MGA-LNLN-K70000	MGA for Lube-Shuttle grease cartridge	0.22	0.013	400	13.5	–	
MGA-SPLN-K70000	MGA for standard grease tube or without tube	0.22	0.013	420/500	14.2/16.9	–	
MGA-TNLN-K70000	MGA incl. adapter for SKF TLMR grease cartridge	0.22	0.013	380	12.8	–	
MGA-RNLN-K70000	MGA incl. adapter for Lincoln grease cartridge	0.22	0.013	380	12.8	–	

¹⁾ Pressure relief valves, cartridges or lubricants have to be ordered separately. Further pump versions on request.
²⁾ Manually adjustable metering quantity.

Accessories	
Order number	Description
624-28892-1	Pressure relief valve (270 bar) SVTE-270-1/4-D6
624-28859-1	Pressure relief valve with NPT outlet thread
11600340	Refilling pump, NLGI 1-2 greases (18 kg barrels)
11600330	Refilling pump, NLGI 000-0 greases (18 kg barrels)
11770464	Lube-Shuttle cartridges adapter for refilling pump



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