

# Multi-outlet drum pumps GSE

Multi-outlet drum pump units, oil or grease,  
for centralized single-line lubrication systems



Multi-outlet drum pumps GSE are designed to deliver lubricants, oil or grease, to total-loss lubrication system.

They can have up to six delivery outlets and suit perfectly to industrial machines with several lubrication circuits. This makes it possible to plan simple and compact centralized lubrication systems without the need for lubricant transfer.

They can work under hard operation conditions or in a severe environment.

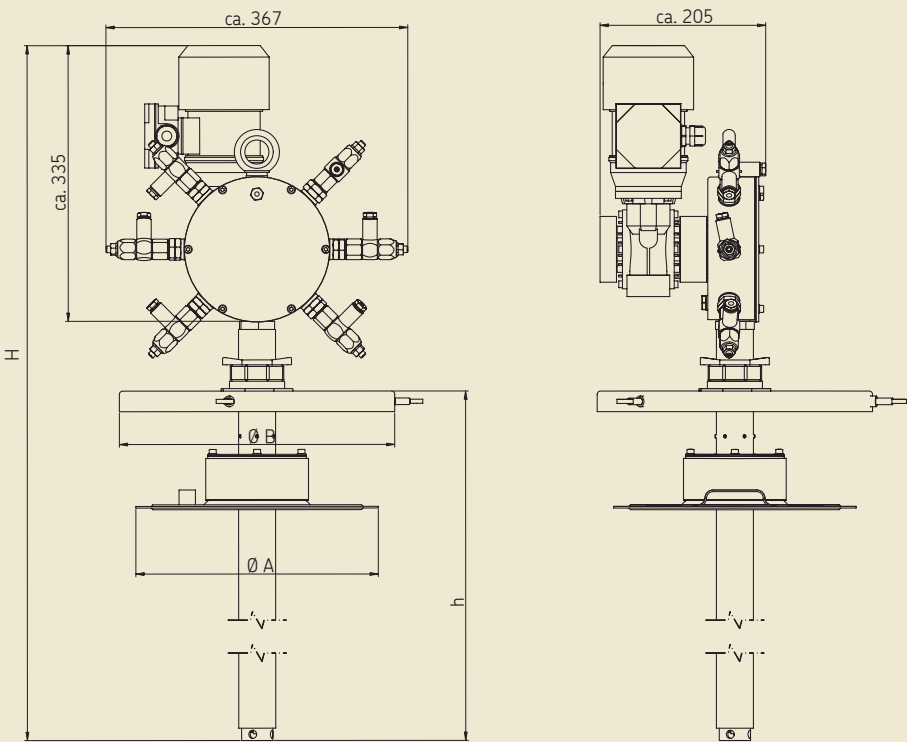
The drum pump units GSE are normally delivered without pump element. These pump elements, type GS100... have to be separately ordered. This makes it possible to have a number of outlet combinations.

## Advantages

- Up to 6 pump elements.
- Deliver lubricant directly to several lubrication points or to large-size progressive systems.
- Adaptability of the motor-driven pump unit. The unit can be mounted on different standard drums (25, 50 and 200 kg).
- Possibility to add a minimal level control to monitor the drum lubricant level.
- Working pressure between 150 and 250 bars.
- The pump unit function can be entirely automated by means of an electronic control unit.

Dimension

GSE0-...



Drum	Cover		Unit max. H
	min. Ø B	max. Ø B	
25 kg	265	310	935
25 kg N	285	305	935
50 kg	360	395	1 150
50 kg L	360	405	1 150
200 kg	565	610	1 340

Drum	Pipe max. h	Follower plate	
		min. Ø A	max. Ø A
25 kg	480	260	298
25 kg N	480	300	340
50 kg	695	330	370
50 kg L	695	360	405
200 kg	890	550	590

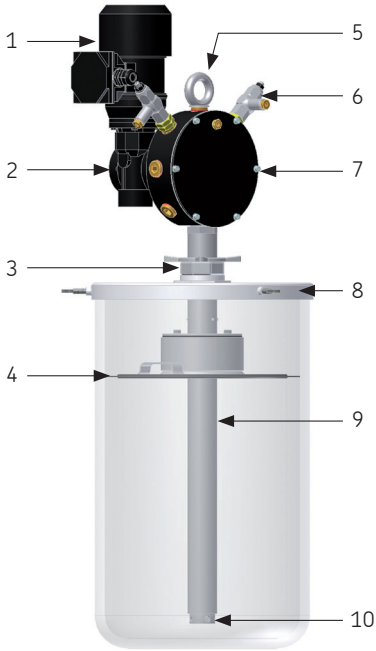
Order information

Multi-outlet drum pumps GSE

Order No.*	Drum capacity	Level monitoring	Follower plate	Cover
GSE0-25-00	25			
GSE0-25-01	25		•	•
GSE0-25-10	25	•		
GSE0-25-11	25	•	•	•
GSE0-25N-00	25			
GSE0-25N-01	25		•	•
GSE0-25N-10	25	•		
GSE0-25N-11	25	•	•	•
GSE0-50-00	50			
GSE0-50-01	50		•	•
GSE0-50-10	50	•		
GSE0-50-11	50	•	•	•
GSE0-50L-00	50 L			
GSE0-50L-01	50 L		•	•
GSE0-50L-10	50 L	•		
GSE0-50L-11	50 L	•	•	•
GSE0-200-00	200			
GSE0-200-01	200		•	•
GSE0-200-10	200	•		
GSE0-200-11	200	•	•	•

\*) When ordering, the order No. has to be completed with the voltage key:  
+140: 230/400 V AC, 50 Hz ; +428: 230 V AC , 50/60 Hz ; +924: 24 V DC

GSE unit



- 1 motor
- 2 reducing gear
- 3 positioning wheel
- 4 follower plate
- 5 lift ring
- 6 pump element
- 7 pump housing
- 8 cover
- 9 suction pipe
- 10 suction check valve

## Multi-outlet drum pump GSE

### Technical data

#### Multi-outlet drum pump GSE

Number of outlets .....	1 to 6
Delivery rate per stroke and outlet	
piston Ø 6 .....	adjustable, 0,03 to 0,08 cm <sup>3</sup> /stroke
piston Ø 8 .....	adjustable, 0,05 to 0,15 cm <sup>3</sup> /stroke
Number of stroke .....	≈ 15/min
Pressure max. ....	250 bars
Outlet connection .....	orientable, drilling for connectors with double tapered sleeves for tube Ø 6 or 8
Drain plug .....	H 14
Min. level monitoring .....	pressure switch with connector, set at 0,5 bar
Operating temperature .....	-10 to +40 °C
Lubricant (at operating temperature)	
grease .....	up to NLGI grade 2
oil .....	≥ 100 mm <sup>2</sup> /s
Material	
pump element .....	steel and brass
housing .....	aluminum
suction pipe .....	galvanized steel

Motor	3-phase	1-phase	Direct
Voltage	230/400 V*	230 V*	24 V DC*
Frequency	50 Hz	50/60 Hz**	-
Power	90 W	90 W	90 W
Protection	IP 55	IP 55	IP 55
Speed	1 500 min <sup>-1</sup>	1 500 min <sup>-1</sup>	1 500 min <sup>-1</sup>
Current	0,59 / 0,34 A	1,1 A	6 A
Class	F/vented	F/vented	not vented

\* Low voltage directive 73/23/EEC – Norm EN 60439

\*\* At 60 Hz rotation speed is multiplied by 1,2

#### Level monitoring, pressure switch

Switching capacity .....	250 V/4 A
Voltage max. ....	250 V
Current max. ....	0,5 A
Protection .....	IP 65
Connector .....	DIN 43650
Cable gland .....	CM8

### Accessories

#### Pump elements for GSE

GSE units can have up to 6 pump elements (to be ordered separately)

Design	Order No.
For piston Ø 6, tube connection Ø 6	<b>GS100.6.6</b>
For piston Ø 6, tube connection Ø 8	<b>GS100.6.8</b>
For piston Ø 8, tube connection Ø 6	<b>GS100.8.6</b>
For piston Ø 8, tube connection Ø 8	<b>GS100.8.8</b>

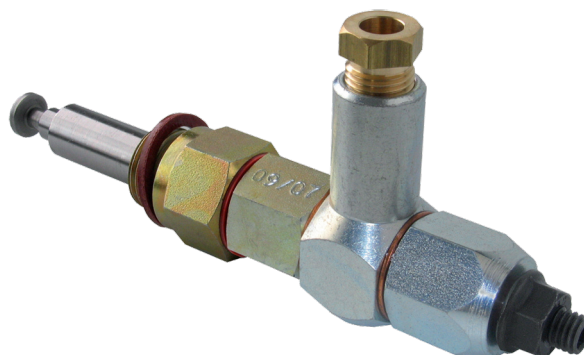
#### Accessories for the drum

Drum	Cover	Follower plate
25	<b>PT-120-25</b>	<b>GSE1008-25</b>
25N	<b>PT-120-25N</b>	<b>GSE1008-25N</b>
50	<b>PT-130-50</b>	<b>GSE1008-50</b>
50 L	<b>PT-120-50L</b>	<b>GSE1008-50L</b>
200	<b>PT-120-200</b>	<b>GSE1008-200</b>

**Relief valve**, set at 150 bars, connection G 1/4

.....Order No. **HK030.150R**

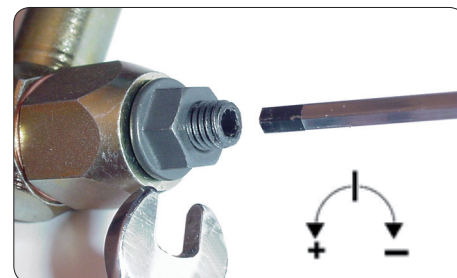
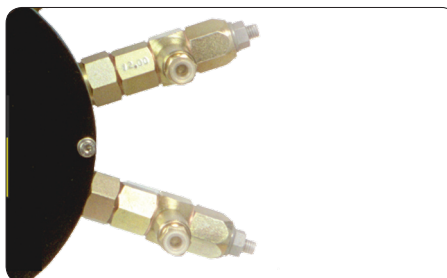
### Pump element



See important product usage information on the back cover.  
See operating instruction 951-130-407.

## Flow rate adjustment

The flow rate adjustment is simple and easy for every pump element. It is performed from outside by means of a counter nut and a set screw, which is adjusting the valve piston stroke.



**Order No.: 1-4007-EN**

Subject to change without notice! (04/2009)

**Important product usage information**

All products from SKF may be used only for their intended purpose as described in this brochure and in any instructions. If operating instructions are supplied with the products, they must be read and followed.

Not all lubricants are suitable for use in centralized lubrication systems.

SKF does offer an inspection service to test customer supplied lubricant to determine if it can be used in a centralized system. SKF lubrication systems or their components are not approved for use with gases, liquefied gases, pressurized gases in solution and fluids with a vapor pressure exceeding normal atmospheric pressure (1013 mbars) by more than 0,5 bar at their maximum permissible temperature.

Hazardous materials of any kind, especially the materials classified as hazardous by European Community Directive EC 67/548/EEC, Article 2, Par. 2, may only be used to fill SKF centralized lubrication systems and components and delivered and/or distributed with the same after consulting with and receiving written approval from SKF.

**Further brochures**

1-9201-EN Transport of Lubricants in Centralized Lubrication Systems

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