

# 203 Pumps



## Technical Data

operating pressure	350 bar (5076 psi)				
reservoir	2, 4, 8 or 15 liters - clear plastic / (122, 244, 488 in <sup>3</sup> ) / 4, 8, 16 Lbs.				
output per element / min.	K5 mm	K6 mm	K7 mm	C7 mm (for chisel paste)	KR (adjustable)
	approx. 2 cm <sup>3</sup> /min (0.122 in <sup>3</sup> )	approx. 2.8 cm <sup>3</sup> /min (0.17 in <sup>3</sup> )	approx. 4 cm <sup>3</sup> /min (0.244 in <sup>3</sup> )	approx. 4 cm <sup>3</sup> /min (0.244 in <sup>3</sup> )	approx. 0.7 to 3 cm <sup>3</sup> /min (0.043 to 0.183 in <sup>3</sup> )
operating voltage	24 and 12 VDC / 95 to 265 VAC				
operating temperature	-25 to 75°C / -13 to 167°F				
lubricants	up to NGLI 2 / oil of at least 40 mm <sup>2</sup> /s				
class of protection	IP6K 9K acc. to DIN 40050 T9				
number of outlets	1, 2 or 3				
outlet thread	G 1/4 female (BSPP)				

## 223 Pumps without and 233 Pumps with Data Logger QuickData

The 233 centralized lubrication pump is a powerful and robust compact multi-line pump that can drive up to 3 elements and is used in progressive (Quicklub or Modular Lube) automated lubrication systems. The 233 is ideal for mobile applications, rental machines and construction machines. Versatile, compact and economical, this pump is enhanced with low-level control, printed circuit board MDF01 with attached data logger module and a keypad with display.

### QuickData Displays

- Current status and operating data
- Malfunctions of the lubrication system with the time of occurrence
- Remediating of the malfunction with date, time and duration of malfunction
- Low-level signal of reservoir and regular refilling
- Modifications in the pause time programming
- Number of automatically and manually triggered lube cycles as well as the corresponding lubricant consumption
- Power supply interruptions

All data can be read out by means of a laptop or p.d.a. via an integrated or separate IR interface (IrDA). All indications enable the users to draw their conclusions regarding the condition, function, reliability, usability and duration of service of the machine or the device. All information can be analyzed and documented and is then available as a written protocol.



Pump 233

The family of 223/233 pumps includes 12 and 24 VDC pumps. They are available with 1, 2 or 3 elements in 5, 6 or 7 mm or with an adjustable output element. Reservoir sizes are 2, 4 or 8 liters. Refer to the pump identification code for a complete listing of available pump configurations.

# 223 Pumps without and 233 Pumps with Data Logger QuickData



## Models

Part No.	Model	Reservoir Capacity			Lubricant	Low-Level Control	Printed Circuit Board
		Litre	In. <sup>3</sup>	Lbs.			
644-40864-2	P 223-2XL-1K6-24-2A5.14-MF01	2	122	4.4	grease	yes	yes
644-40864-6	P 223-2XL-1K6-24-2A6.15-MF01	2	122	4.4	grease	yes	yes
644-40864-3	P 223-2XLBO-1K6-24-2A5.14-MF01	2	122	4.4	grease	yes	yes
644-40864-5	P 223-2XLBO-1K6-24-2A6.15-MF01	2	122	4.4	grease	yes	yes
644-40864-1	P 223-2XLBO-1K7-24-2A5.14-MF01	2	122	4.4	grease	yes	yes
644-40864-4	P 223-2XLBO-1K7-24-2A6.15-MF01	2	122	4.4	grease	yes	yes
644-46172-3	P 223-2XN-1K6-24-2A6.15-MF01	2	122	4.4	grease	no	yes
644-41037-1	P 223-4XLBO-1K6-24-2A6.15-MF01	4	244	8.8	grease	yes	yes
644-40866-3	P 223-8XLBO-1K6-24-2A6.15-MF01	8	488	16	grease	yes	yes
644-40866-2	P 223-8XLBO-1K7-AC-3A6.15-MF01	8	488	16	grease	yes	yes
644-40866-4	P 223-8XLBO-1KR-AC-3A6.15-MF01	8	488	16	grease	yes	yes
644-40866-1	P 223-8YLBO-1K7-24-2A5.14-MF01	8	488	16	oil	yes	yes
644-40866-5	P 223-8YLBO-1K7-24-2A6.15-MF01	8	488	16	oil	yes	yes
644-40824-3	P 233-2XL-1K6-12-2A5.14-MDF01	2	122	4.4	grease	yes	yes
644-41040-1	P 233-15XL-1K6-24-2A6.15-MDF01	15	915	33	grease	yes	yes
644-40824-7	P 233-2XL-1K6-12-2A6.15-MDF01	2	122	4.4	grease	yes	yes
644-40824-1	P 233-2XL-1K6-24-2A5.14-MDF01	2	122	4.4	grease	yes	yes
644-40824-4	P 233-2XL-1K6-24-2A6.15-MDF01	2	122	4.4	grease	yes	yes
644-40824-6	P 233-2XLBO-1K6-24-2A6.15-MDF01	2	122	4.4	grease	yes	yes
644-40824-2	P 233-2XLBO-1K6-24-2A5.14-MDF01	2	122	4.4	grease	yes	yes
644-40824-5	P 233-2XLBO-1KR-AC-3A6.15-MDF01	2	122	4.4	grease	yes	yes
644-40825-2	P 233-4XBF-1K6-24-2A6.15-MDF01	4	244	8.8	grease	yes	yes
644-40826-2	P 233-4XLBO-1K6-24-2A6.15-MDF01	4	244	8.8	grease	yes	yes
644-40826-1	P 233-4XLBO-1K6-24-2A5.14-MDF01	4	244	8.8	grease	yes	yes
644-40997-1	P 233-4XLBO-1K6-AC-3A6.15-MDF01	4	244	8.8	grease	yes	yes
644-40827-2	P 233-8XBF-1K6-24-2A6.15-MDF01	8	488	16	grease	yes	yes
644-40827-1	P 233-8XLBO-1K6-24-2A6.15-MDF01	8	488	16	grease	yes	yes

*These pumps do not include a pressure relief valve which must be ordered separately.*

Other technical data and dimensions are identical to the P203.

## Accessories

Designation	Part No.
– USB interface at PC or notebook	
– Standard USB infrared adapter Ir-DA 1.3	
diagnostic software	810-53140-1
piston detector	234-13188-2