



Pump 203

The 203 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. It is perfect for mobile applications, small and medium sized machinery and general industries. Versatile, compact and economical, this pump can be enhanced with low-level control and printed circuit board that allow for controlling the lubrication cycles.

The family of 203 pumps includes 12 and 24 VDC and VAC pumps that automatically adjust to supply voltages from 110 – 240 VAC. 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.

Popular 203 Models

Part No.	Model	Power	Reservoir Capacity			Grease or Oil	Low-Level Control	Printed Circuit Board
			Liters	In ³	Lbs.			
94012	P203-2XN-1K6-12-1A1.50-V20-A+SV	12 VDC	2	122	4	grease	no	yes
94024	P203-2XN-1K6-24-1A1.50-V20-A+SV	24 VDC	2	122	4	grease	no	yes
94212	P203-2XN-1K6-12-1A1.51-A+SV	12 VDC	2	122	4	grease	no	yes
94224	P203-2XN-1K6-24-1A1.51-A+SV	24 VDC	2	122	4	grease	no	no
94412	P203-4XNBO-1K6-12-1A1.50-V20-A+SV	12 VDC	4	244	8	grease	no	yes
94424	P203-4XNBO-1K6-24-1A1.50-V20-A+SV	24 VDC	4	244	8	grease	no	yes
94812	P203-8XNBO-1K6-12-1A1.50-V20-A+SV	12 VDC	8	488	16	grease	no	yes
94824	P203-8XNBO-1K6-24-1A1.50-V20-A+SV	24 VDC	8	488	16	grease	no	yes
94222	P203-2XL-1K6-24-2A4.12-MOD-A-SV	24 VDC	8	488	16	grease	no	yes
94422	P203-4XLBO-1K6-24-2A4.12-MOD-A+SV	24 VDC	8	488	16	grease	no	yes
94822	P203-8XLBO-1K6-24-2A4.12-MOD-A+SV	24 VDC	8	488	16	grease	no	yes
644-37426-1	*P203-2XN-1K6-24-2A1.10-V10	24 VDC	2	122	4	grease	no	yes
644-40716-2	*P203-2XNBO-1K6-AC-1A1.01-V10	AC	2	122	4	grease	no	yes
644-40717-5	*P203-2XNBO-1K6-AC-1A1.01	AC	2	122	4	grease	no	no
644-40583-3	*P203-2YLBO-1K6-24-1A1.01	24 VDC	2	122	4	oil	yes	no
644-40718-7	*P203-4XNBO-1K6-AC-1A1.01	AC	4	244	8	grease	no	no
644-40719-5	*P203-4XNBO-1K6-AC-1A1.01-V10	AC	4	244	8	grease	no	yes
644-40719-6	*P203-4YLBO-1K6-AC-1A1.01-V10	AC	4	244	8	oil	yes	yes
644-40718-1	*P203-4XLBO-1K6-AC-2A1.01	AC	4	244	8	grease	yes	no
644-40718-8	*P203-4YLBO-1K6-AC-1A1.01	AC	4	244	8	oil	yes	no
644-40718-5	*P203-4XLBO-1K7-AC-2A1.01	AC	4	244	8	grease	yes	no
644-40721-5	*P203-8XLBO-1K6-AC-2A1.01	AC	8	488	16	grease	yes	no
644-40762-2	*P203-8XLBO-1K6-AC-2A1.01-V10	AC	8	488	16	grease	yes	yes
644-40645-2	*P203-8YLBO-1K6-24-1A1.10	24 VDC	8	488	16	oil	yes	no
644-40550-4	*P203-8XLBO-1K7-24-2A1.01	24 VDC	8	488	16	grease	yes	no
644-40645-3	*P203-8XLBO-1K7-24-2A1.10	24 VDC	8	488	16	grease	yes	no

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

Dimensions

Size of Reservoir	Height	Width	Depth
2 l, standard	367 mm (14.4 in)	205 mm (8.1 in)	224 mm (8.8 in)
2 l, filling from top	403 mm (15.8 in)	205 mm (8.1 in)	224 mm (8.8 in)
2 l, flat	287 mm (11.3 in)	232 mm (9.1 in)	250 mm (9.8 in)
4 l	395 mm (15.6 in)	232 mm (9.1 in)	250 mm (9.8 in)
8 l	495 mm (19.5 in)	232 mm (9.1 in)	250 mm (9.8 in)

Accessoires

Part No.	Description
600-26875-2	pump element with assy. piston \varnothing 5 mm (K5)
600-26876-2	pump element with assy. piston \varnothing 6 mm (K6)
600-26877-2	pump element with assy. piston \varnothing 7 mm (K7)
600-28750-1	pump element with assy. piston for chisel paste (C7)
600-26178-1	adjustable pump element (KR)
624-28894-1	pressure relief valve SVTE-350-1/4 for 6 mm tube, 350 bar (5076 psi)
624-28892-1	pressure relief valve SVTE-270-1/4 for 6 mm tube, 270 bar (3916 psi)
624-28859-1	pressure relief valve SVTSV-270-1/4 with grease fitting for manual servicing, 1/8" NPT female supply line connection, 270 bar (3916 psi)
624-28891-1	pressure relief valve SVTE-200-1/4, for 6 mm tube, 200 bar (2900 psi)
624-28931-1	pressure relief valve with return to reservoir SVTSV-350-1/4 for 6 mm tube, 350 bar (5076 psi)
226-14105-5	required extension for pressure relief valve for 2 l flat, 4 l and 8 l reservoirs
244-14161-1	quick fill pump (no connecting parts)
638-37549-1	quick fill pump with straight connection fitting for 2 l reservoir
638-37548-1	quick fill pump with 90° connection fitting for 2 l reservoir
638-37561-1	quick fill pump with 90° connection fitting for 2 l flat, 4 l and 8 l reservoirs
233-13124-8	protective plug for quick fill pumps
233-13090-9	protective cap for quick fill pump
638-37549-2	quick fill pump and straight adapter for 4 l and 8 l reservoirs
538-36763-5	straight adapter for quick fill pump for 4 l and 8 l reservoirs
538-36763-4	90° adapter for quick fill pump for 4 l and 8 l reservoirs

Technical Data

operating pressure	350 bar (5076 psi)				
reservoir	2, 4, 8 liters - clear plastic / (122, 244, 488 in ³) / 4, 8, 16 Lbs.				
output per element / min.	K5 mm	K6 mm	K7 mm	C7 mm (for chisel paste)	KR (adjustable)
	approx. 2 cm ³ /min (0.122 in ³)	approx. 2.8 cm ³ /min (0.17 in ³)	approx. 4 cm ³ /min (0.244 in ³)	approx. 4 cm ³ /min (0.244 in ³)	approx. 0.7 to 3 cm ³ /min (0.043 to 0.183 in ³)
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 ² /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)				

Identification Code Pump Models 203



Examples for Model Designation

P203-	2	X	N	-	1	K6-	24-	1A	1.	10-	V10
P203-	4	X	LBO	-	1	K6-	24-	2A	1.	10-	V10
P203-	2	X	N	-	1	K6-	AC-	1A	1.	01-	V10
P203-	2	X	N	-	1	K6-	AC-	1A	1.	01	
P203-	8	Y	NBO	-	2	K7-	24-	2A	4.	12-	M00
P203-	2	X	NFL	-	1	K5-	12-	1A	1.	10-	H

Basic Pump Model

for Grease or Oil:
with 1-3 outlets and 12 VDC
or 24 VDC motor

Reservoir Design:

2 = 2 l transparent plastic reservoir
4 = 4 l transparent plastic reservoir
8 = 8 l transparent plastic reservoir

X = reservoir for grease
Y = reservoir for oil

N = standard design
L = low-level control

Without

designation = standard reservoir (2 liters)
BO = filling from top
FL = flat-type reservoir (2 liters)

Pump Elements:

1-3 = number of the use elements

K5 = piston diameter = 5 mm
K6 = piston diameter = 6 mm
K7 = piston diameter = 7 mm
KR = pump element adjustable,
= piston diameter = 7 mm
C7 = piston diameter = 7 mm***

Operating Voltage:

12VDC or 24VDC motor
AC = 94 - 265 VAC (47 - 63) with 24 VDC motor

Number of the Possible Connections:

1A = 1 connection, supply voltage
2A = 2 connections, supply voltage +
remote control for additional lubrication,
for low-level control***, piston detector (microprocessor)

Type of Connection:

1 = square type plug acc. to DIN 43650, type of connection A
4 = AMP - flanged plug (microprocessor)
8 = PG - cable gland
9 = AMP - plug, wire to wire

Connection Outside the Pump:

00 = without socket-outlet, without cable
01 = with socket-outlet, without cable
10 = with 10 m cable
11 = with 10 m ADR cable
12 = with 10 m cable, 4 - wire (microprocessor M00 - M07)
13 = with 10 m cable, 5 - wire (microprocessor M08 - M23)

Control P.C.B. 12 V / 24 V:

V10 - V13 with adjustable pause and operating time (V20 - V23 for USA)
V10 - V13 ADR with adjustable pause and operating time
M 00 ...M 23* with microprocessor control
(various adjustments – see combinations of the jumper positions)
H-for trailer or semitrailors; H,- for ADR for trailers and semitrailors*
no designation: pump without control p. c. b.

* Not in conjunction with Hirschman plugs (type of connection 1)

** For transport of hazard materials

*** C7 Designation of pump elements (chise) for supplying of the chisel paste

**** Low-level control for oil; connection of low-level control won't be considered

Note: Any pump combinations other than the above standard pumps can be composed and ordered in accordance with the valid model identification code.