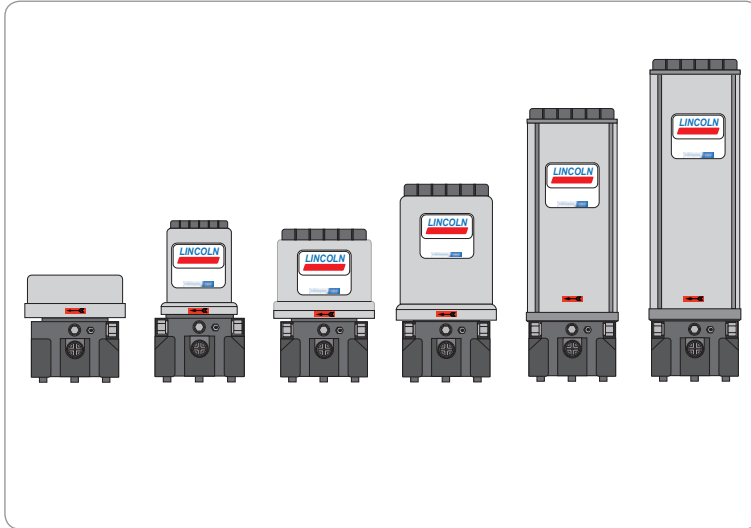


# Lubricant pump P203 for multi-line lubrication systems AC versions without PCB

Original Assembly Instructions  
following machinery directive 2006/42/EC

EN



951-171-020-EN

Version 02

21/05/2021



## 4. Technical data

### 4.1 General technical data

Operating pressure	max. 350 bar [5076 psi]	Rated voltage	110 - 260 VAC ( $\pm 10\%$ )
Number of pump elements	max. 3	Frequency	50-60 Hz ( $\pm 5\%$ )   1-phase
Direction of rotation	clockwise	Recommended back-up fuse	6,0 A slow-blow   110 - 260 V
sound pressure level	< 70 dB (A)	Switch-on current limitation	< 40 A peak (cold start @25 °C / 77 °F)
Nominal speed	20 rpm	Operating voltage of motor	24 V DC
Relative duty cycle <sup>1)</sup>	S3 25 ED 120 min	Output (signal)	floating
Ambient temperature <sup>1)</sup>	-25 °C to +70 °C [-13 °F to +158 °F]	Max. switching capacity	72 VA
Installation position <sup>2)</sup>	vertical, i.e. reservoir at top.	Max. switching voltage	30 V DC
Protection type and class	see next page	Max. switching current	700 mA
		Current consumption	typically 1.78 A at 110 VAC up to 0.82 A at 260 VAC
		Weight of the empty pump	
Lubricants <sup>3)</sup> <ul style="list-style-type: none"> <li>- Lubricating greases up to NLGI 2</li> <li>- Lubrication oils of at least 40 mm<sup>2</sup>/s (cST) at ambient temperature</li> <li>- Chisel paste (see chapter Lubricants)</li> </ul>		02 litres, approx. 6.5 kg	[0.53 gal. approx. 14.3 lbs.]
		04 litres, approx. 9.0 kg	[1.06 gal. approx. 19.8 lbs.]
		08 litres, approx. 10 kg	[2.11 gal. approx. 22.0 lbs.]
		11 litres, approx. 12 kg	[2.90 gal. approx. 26.5 lbs.]
		15 litres, approx. 14 kg	[3.96 gal. approx. 30.9 lbs.]
Filling <ul style="list-style-type: none"> <li>Depending on the specific pump type via:               <ul style="list-style-type: none"> <li>- Filler fitting</li> <li>- Reservoir lid (for reservoirs without follower plate)</li> <li>- Optional filling connection</li> </ul> </li> </ul>			

1) The lower limit of the ambient temperature presupposes the pumpability of the lubricant used at the respective actually existing temperature. The maximum admissible ambient temperature depends on the load and is mainly determined by the runtime and the operating pressure. The stated relative duty cycle refers to lubricants of NLGI 2, an ambient temperature of 60 °C [140 °F] and a medium back pressure of 160 bar on the pump element. In case of temperatures  $\geq 60^\circ\text{C}$  and heavy load (higher pressure) the maximum duty cycle should be reduced. 3) Pumps with UL approval may only be operated up to a maximum permissible ambient temperature of +60 °C, regardless of the load.

2) Pumps with follower plate allow for a rotating installation as well, e. g. in wind turbine generators. Maximum speed and maximum distance to the rotation axis on request. For pumps without follower plate and expected inclined position (e.g. In case of construction or agricultural machinery) the following applies:

- The maximum filling must be reduced according to the expected inclined position (< MAX marking).
- The minimum filling must be increased as of an expected inclination of > 30 ° (> MIN marking), as otherwise a reduced lubricant volume in the suction area of the pump could result in a functional impairment.

3) Observe the limits stated in chapter Limits of use of the intermittent low-level indication.

### 6.3 Mechanical connection

#### 6.3.1 Minimum assembly dimensions

Ensure sufficient space for maintenance work or for attachment of further components to build a centralized lubrication system to the pump by leaving a free space of at least 100 mm [3.94 in.] into each direction in addition to the stated dimensions.

Reservoir version	Reservoir size ~ Height (H) mm [in.]					Reservoir size ~ Width (W) mm [in.]					Reservoir size ~ Depth (D) mm [in.]				
	2	4	8	11	15	2	4	8	11	15	2	4	8	11	15
litre															
gal.	[0.53]	[1.06]	[2.11]	[2.90]	[3.96]	[0.53]	[1.06]	[2.11]	[2.90]	[3.96]	[0.53]	[1.06]	[2.11]	[2.90]	[3.96]
XN	325	355	458		708	213	230	250		240	224	250	250		244
	[12.79]	[13.98]	[18.03]		[27.87]	[8.39]	[9.06]	[9.84]		[9.45]	[8.81]	[9.84]	[9.84]		[9.60]
XNFL	244					232					250				
	[9.61]					[9.13]					[9.84]				
XNBO	360	350	457	611	729	211	232	232	227	216	224	250	250	224	244
	[14.17]	[13.78]	[18]	[24.06]	[28.7]	[8.30]	[9.13]	[9.13]	[8.93]	[8.50]	[8.82]	[9.84]	[9.84]	[8.82]	[9.61]
XNBA		360	467				250	230				250	251		
		[14.17]	[18.36]				[9.84]	[9.06]				[9.84]	[9.88]		
XL	330	355	465		729	213	230	230		230	224	250	250		250
	[13]	[13.98]	[18.30]		[28.70]	[8.30]	[9.06]	[9.06]		[9.06]	[8.82]	[9.84]	[9.84]		[9.84]
XLBO	360	355	457	618	730	213	250	230	220	220	224	250	251	250	244
	[14.17]	[13.98]	[17.99]	[24.33]	[28.74]	[8.30]	[9.84]	[9.06]	[8.66]	[8.66]	[8.82]	[9.84]	[9.88]	[9.84]	[9.61]
XLBA		365	467				250	230				250	251		
		[14.37]	[18.39]				[9.84]	[9.06]				[9.84]	[9.88]		
XC	325	355	458			213	230	250			224	250	250		
	[12.80]	[13.98]	[18.03]			[8.30]	[9.06]	[9.06]			[8.82]	[9.84]	[9.84]		