

## Pump unit

## QLS 311 SSV



## Description

The QLS 311 pump is a monitored lubrication system with low-level control for a maximum of 18 lubrication points. Designed for use with standard high-pressure plastic tubing, the QLS family includes pumps with or without mounted SSV metering devices. An optional integrated controller for pause and lubrication times is available.

## Features and benefits

- Internal lubricant return possible
- Integrated pressure-relief valves
- External programming via keypad
- System monitoring with display of faults
- Standard low-level control
- Suitable for VAC and V DC versions
- Protection: IP 6K9K, NEMA 4

## Applications

- Machine tools
- Metal processing
- Chain lubrication
- Material handling
- Automotive industry
- Food processing
- Printing industry
- Farm machinery

## Technical data

Function principle	electrically operated piston pump
Operating temperature	-25 to +70 °C; -13 to +158 °F
Operating pressure	80 bar; 1 200 psi
Lubricant	oil: 40–1 500 mm <sup>2</sup> /s
Outlets	up to 18
Metering quantity	1,0 cm <sup>3</sup> /min; 0,06 in <sup>3</sup> /min
Reservoir	1, 2 l; 0,26; 0,53 gal
Connection main line via SSV:	see information for SSV
via connection block:	G 1/8 12/24 V DC; 120 and 230 VAC (± 10%)
Protection class	IP 6K9K
Dimensions	min. 237 × 215 × 230 mm min. 9.33 × 8.46 × 9.05 in max. 237 × 235 × 353 mm max. 9.33 × 9.25 × 13.89 in
Mounting position	upright



## NOTE

Further technical information, technical drawings, accessories, spare parts or product function descriptions are available on [SKF.com/lubrication](http://SKF.com/lubrication).

## Pump unit and accessories

# QLS 311 SSV

Identification code	P	3	1	1											
<b>Product design</b>															
<b>SSV Metering devices</b>															
0 = external SSV 6, SSV 8 <sup>1)</sup> 1 = external SSV 12, SSV 18 <sup>1)</sup> 3 = SSV 6, rear-mounted 4 = SSV 8, bottom only 6 = SSV 12 9 = SSV 18															
<b>SSV metering device position</b>															
0 = without external metering device 1 = back, vertical order of lines 2 = bottom, horizontal order of lines <sup>2)</sup>															
<b>Operating voltage</b>															
2 = 12 V DC 4 = 24 V DC 6 = 120 V AC, only with control P.C.B. 8 = 230 V AC, only with control P.C.B.															
<b>Reservoir with low level control</b>															
1 = 1 l; 0.26 gal 2 = 2 l; 0.53 gal															
<b>Connections</b>															
0 = 1A – 1 connector, square-type plug, left, power supply 1 = 2A – 2 connectors, square-type plug, 1 connector left, power supply, 1 connector right, fault indication 2 = 1A – 1 connector, bayonet, left, power supply, fault indication, only for V DC application															
<b>Connection socket design</b>															
1 = square plug, design. For industrial applications <sup>3)</sup> 5 = bayonet plug 4-pole design, only V DC application. For vehicles <sup>4)</sup>															
<b>Electrical connector types</b>															
1 = with socket, without cable <sup>3)</sup> 5 = with socket, with cable (10 m, 33 ft) <sup>3)</sup> 7 = with bayonet socket, with cable (10 m, 33 ft), only for V DC application <sup>4)</sup>															
<b>Control printed circuit board (P.C.B.)</b>															
0 = none, only terminal board without time control, only for V DC application 4 = control P.C.B. S4: NC contact or NO contact, programmable: 1-5 cycles, only for V DC application 4 = control P.C.B. S4: NC contact or NO contact, programmable: 1 cycle with SSV 12, SSV 18; 1 to 3 cycles with SSV 6, SSV 8, only for V AC application															

<sup>1)</sup> For external metering devices application only use the specific metering devices SSV..KNQLS  
<sup>2)</sup> Do not use QLS 301 with SSV metering device in bottom-mounting position for mobile applications. Do not install the pump in areas exposed to shock.  
<sup>3)</sup> Connection types 1, 5, 6 can be combined with square plug version (1) only  
<sup>4)</sup> Connection types 7, 8 can be combined with bayonet plug version (5) only

Pump element and outlet accessories	
Order number	Description
650-28856-1	pump element K6
226-14091-4	outlet push-in fitting with clamping ring;
	check valve for hose with stud for Ø 6 mm tube
504-30344-4	outlet check valve assembly for Ø 6 mm tube
303-17499-3	outlet closure plug with sealing edge

Accessories	
Order number	Description
664-36078-7	cable kit, square plug black, cable (10 m, 33 ft); 4-core
664-36078-9	cable kit, square plug black, cable (10 m, 33 ft); 4-core
664-34045-1	cable kit, bayonet plug, cable (10 m, 33 ft) 4-core