



This data sheet interacts with

**SBD**  
Catalogue

## SBD Piped Lubrication System Option

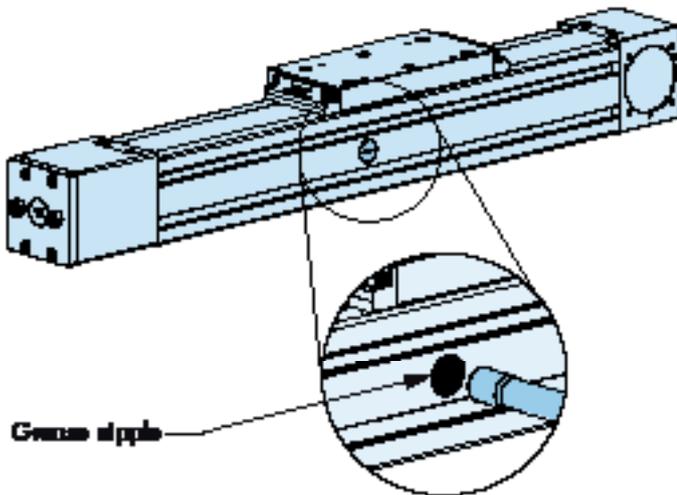
The HepcoMotion SBD product family has now been enhanced with the introduction of a Piped Lubrication System for the SBD 20-80 and SBD 30-100 units.

To maintain system life, it is important that the linear ball guide remains well lubricated during service. The Piped Lubrication System allows the SBD unit to be permanently connected to a lubrication system, allowing re-lubrication to be performed remotely.

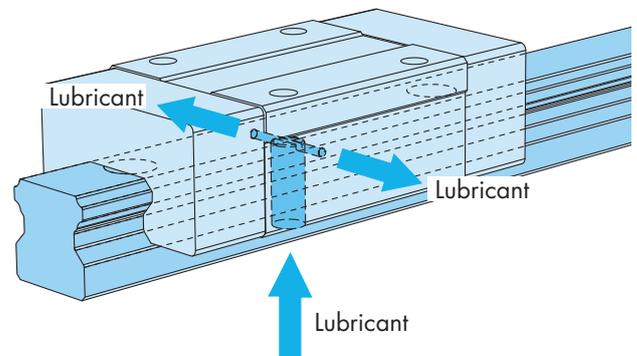
Lubricant passages are machined into the rail, and with the SBD carriage moved to a “park position” over the exit holes, the internal bearing blocks can then be given a charge of lubricant, which could be done with a grease gun via a remotely positioned greasing point piped to the rail, or using an automatic dosing pump, perhaps as part of a regular start-up routine.

Connection can either be made via a straight grease nipple or by screwing directly into the M6 lubrication port.

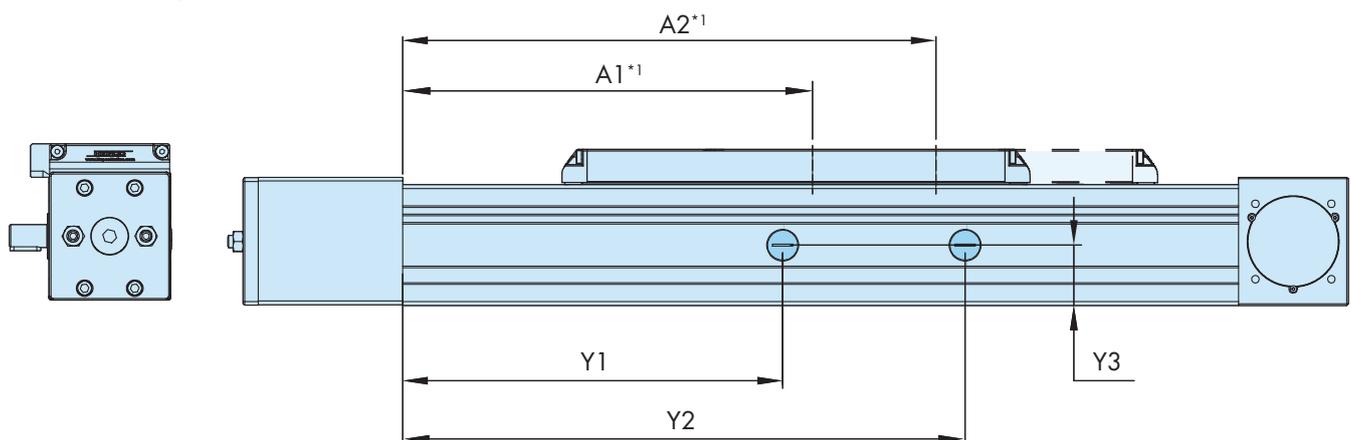
### Lubrication Port Location



### Carriage Block at Park Position



The Piped Lubrication System is connected via one or two access points<sup>1</sup> in the side of the beam (as shown below), and closed-off with a threaded plug.



| SBD Unit         | Carriage Type | Beam Length      | Y1  | Y2                | Y3 | A1  | A2  |
|------------------|---------------|------------------|-----|-------------------|----|-----|-----|
| <b>SBD20-80</b>  | Standard      | All lengths      | 310 | N/A               | 40 | 310 | N/A |
|                  | Long          | Up to 650        | 190 | 310               | 40 | 250 | N/A |
|                  | Long          | Greater than 650 | 310 | N/A* <sup>2</sup> | 40 | 260 | 360 |
| <b>SBD30-100</b> | Standard      | All lengths      | 340 | N/A               | 50 | 340 | N/A |
|                  | Long          | Up to 700        | 260 | 340               | 50 | 300 | N/A |
|                  | Long          | Greater than 700 | 340 | N/A* <sup>2</sup> | 50 | 280 | 400 |

# SBD Piped Lubrication System Option

## Lubrication Procedure

### Stage 1

Once a lubrication source has been connected to the port, the carriage should be moved to park-position A1.

### Stage 2

Pump the recommended amount of grease into the LBG block as stated in the table below for initial lubrication. The carriage should then be run up and down the full length of the unit twice. Return the carriage to the park position A1, and pump the recommended amount of grease for secondary lubrication into the block.

### Stage 3

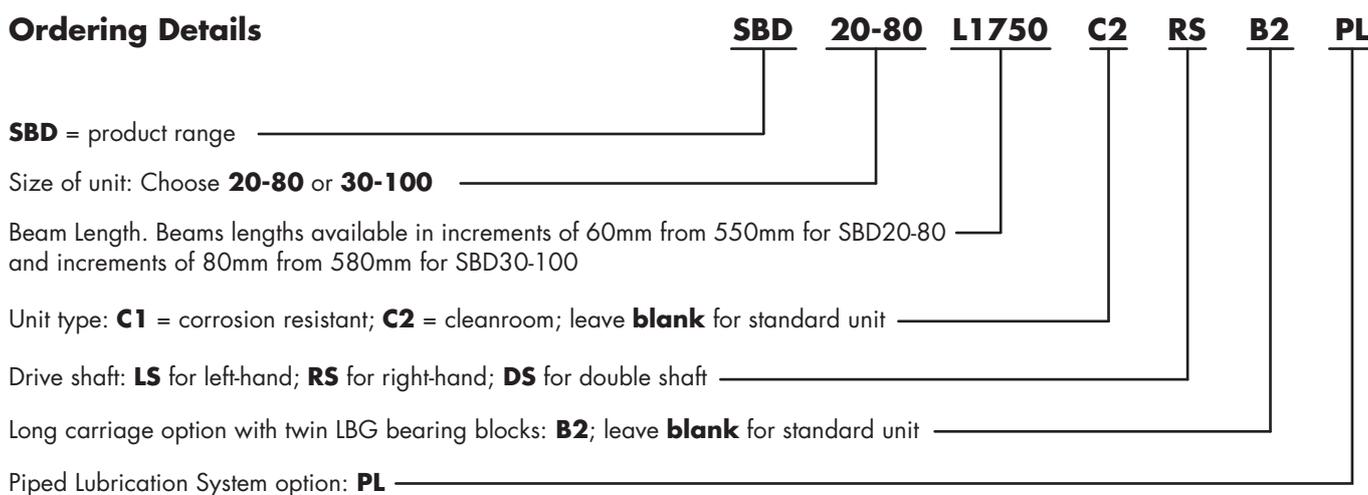
Repeat stages 1 and 2 at park position A2 for SBD units with dual lubrication ports.

| SBD Unit   | Maximum Re-lubrication Interval* <sup>3</sup> | Grease (cm <sup>3</sup> ) |                       |
|------------|---|---------------------------|-----------------------|
|            |   | Initial Lubrication       | Secondary Lubrication |
| SBD 20-80  | 500km   | 2.5                       | 1                     |
| SBD 30-100 | 500km   | 3.5                       | 2                     |

### Notes:

- Dimensions A1 and A2 indicate the park positions to the centre of the carriage, required for lubrication of the SBD unit.
- SBD20-80 and SBD30-100 long-carriage units with beam lengths greater than 650mm and 700mm respectively, will have a single access point to the Piped Lubrication System as standard. This will require the lubrication procedure to be performed at two park-positions, to lubricate both internal bearing blocks. SBD20-80 and SBD30-100 long-carriage units with beam lengths greater than 650mm and 700mm respectively, can be supplied with two access points, upon special request.
- Re-lubrication intervals will depend on the application and will be affected by speed, load and duty. Please contact Hepco for application advice.
- Lubricate with grease NLGI consistency No.2. For example Castrol LMX or Shell Alvania R.A.
- Standard grease guns will dispense between 1-1.5cm<sup>3</sup> of grease for every full operation, however this can vary greatly between models. It is recommended that customers verify the amount of grease dispensed for the model used.

## Ordering Details



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