



This data sheet interacts with

SBD
Catalogue

SBD Piped Lubrication System Option

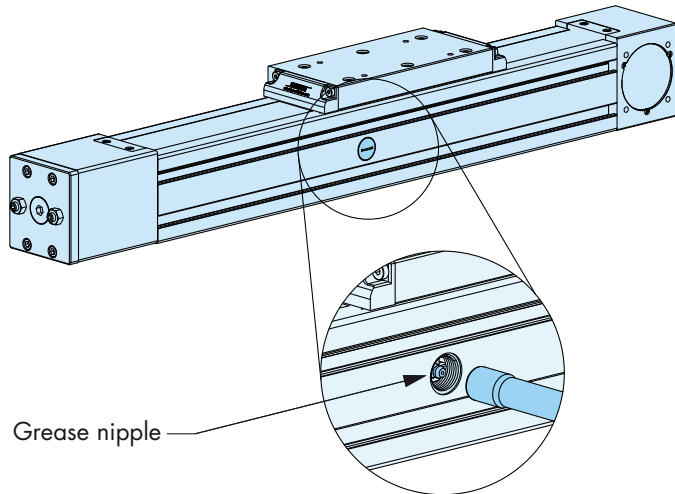
The HepcoMotion SBD product family has now been enhanced with the introduction of a Piped Lubrication System for the SBD 20-80 and SBD 30-100 units.

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.

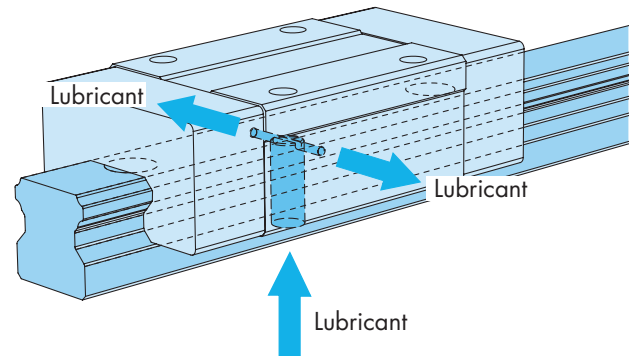
Lubricant passages are machined into the rail, and with the SBD carriage moved to a “park position” over the exit holes, the internal bearing blocks can then be given a charge of lubricant, which could be done with a grease gun via a remotely positioned greasing point piped to the rail, or using an automatic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

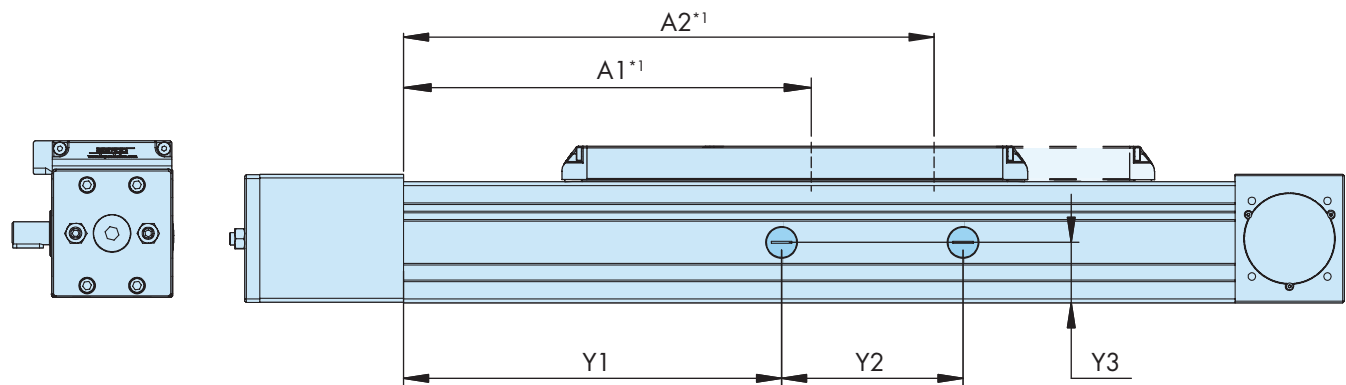
Lubrication Port Location



Carriage Block at Park Position



The Piped Lubrication System is connected via one or two access points¹ 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
SBD20-80	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* ²	40	260	360
SBD30-100	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* ²	50	280	400

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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

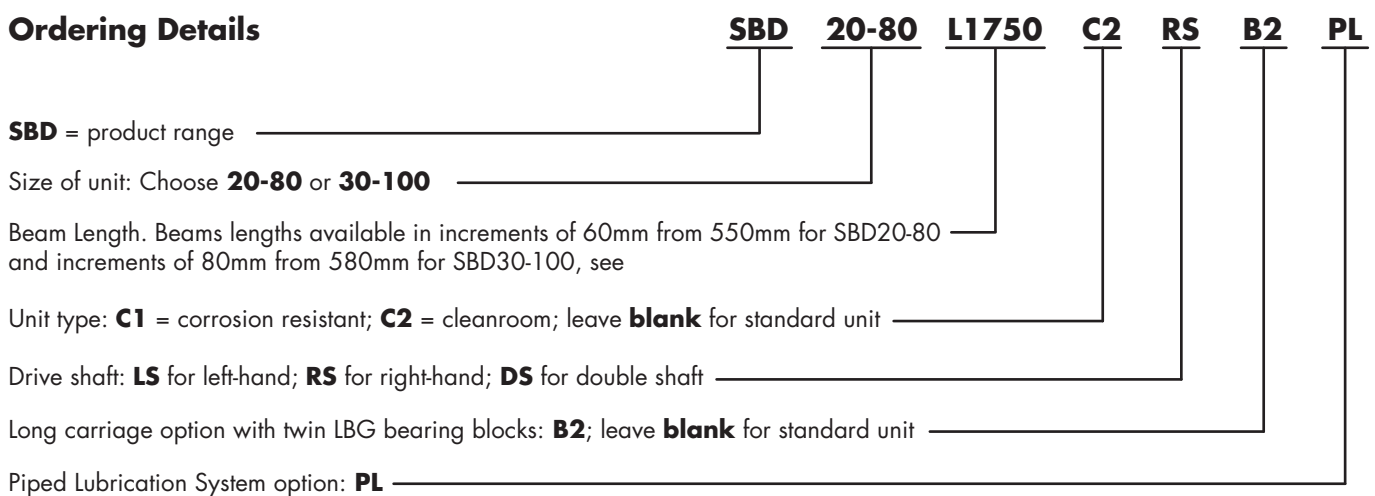
Repeat stages 1 and 2 at park position A2 for SBD units with dual lubrication ports.

SBD Unit	Maximum Re-lubrication Interval* ³	Grease (cm ³)	
		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 1-1.5cm³ 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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